

iCOM

INSTRUCTION MANUAL

COMMUNICATIONS RECEIVERS

IC-PCR1500
IC-PCR2500



Icom Inc.

FOREWORD

Thank you for purchasing this Icom receiver. The IC-PCR1500/PCR2500 COMMUNICATIONS RECEIVERS is designed and built with Icom's state of the art technology and craftsmanship. With proper care, this receiver should provide you with years of trouble-free operation.

◇ FEATURES

[Common to both models]

- *Wide frequency coverage with all mode receive*
- *Real-time bandscope function*
- *IF shift function*
- *ANF and NR functions are available*
(Only when the DSP unit is installed.)

[For IC-PCR2500 only]

- *Dualwatch operation/Diversity operation*
- *DV and P25 Digital modes are available*
(Only when the specific digital unit is installed.)

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IMPORTANT

READ ALL INSTRUCTIONS carefully and completely before using the receiver.


SAVE THIS INSTRUCTION MANUAL— This instruction manual contains important operating instructions for the IC-PCR1500/PCR2500.

EXPLICIT DEFINITIONS

WORD	DEFINITION
⚠ WARNING!	Personal injury, fire hazard or electric shock may occur.
CAUTION	Equipment damage may occur.
NOTE	Recommended for optimum use. No risk of personal injury, fire or electric shock.

MOUSE PROPERTY SETTING

Depending on the 'Mouse Property' setting in the control panel, main and sub mouse button functions are swapped.

 In this instruction manual, the operation is described with the default setting.

SYSTEM REQUIREMENTS

PC

- Microsoft® Windows® XP/2000/Me/98SE installed
- USB 2.0 or 1.1
- Intel Pentium® III 450 MHz or faster (Pentium® 4 recommended)
- At least 128 MB of memory or higher (256 MB or more recommended)
- At least 50 MB or higher hard disk space
- At least 1024 × 768 pixel resolution, high color display

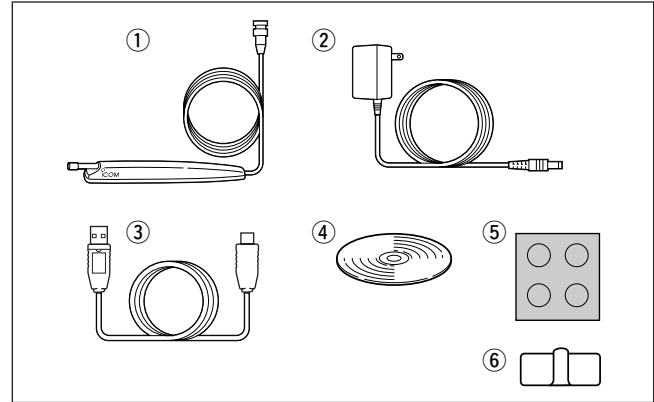
- CD-ROM or DVD drive is required for software installation.
- Mouse or other compatible pointing device is required.
- USB audio dropouts or gaps may occur, because of a lack of PC power.
- Additional hard disk space is required for;
 - Recording sound (at high quality): max 300 MB (approx.)
 - Storing scope data
 - Frequency mode : max 5 MB (approx.)
 - Time mode : max 1.5 MB (approx.)
 - Memory channel data : max 500 kB (approx.)

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Pentium is a registered trademark of Intel Corporation.

All other products or brands are registered trademarks or trademarks of their respective holders.

SUPPLIED ACCESSORIES



① Antenna	.....	1
② AC adapter*	.....	1
③ USB cable	.....	1
④ CD	.....	1
⑤ Foot pad sheet	.....	1
⑥ Cable hanger	.....	1

*Not supplied with some versions.

PRECAUTIONS

⚠ WARNING! NEVER connect the OPC-254L to an AC outlet. This may pose a fire hazard or result in an electric shock.

NEVER expose the receiver to rain, snow or any liquids. The receiver may be damaged.

NEVER operate or touch the receiver with wet hands. This may result in an electric shock or damage the receiver.

AVOID using or placing the receiver in direct sunlight or in areas with temperatures below 0°C (+32°F) or above +60°C (+140°F).

AVOID the use of chemical agents such as benzine or alcohol when cleaning, as they can damage the receiver's surfaces.

DO NOT use the supplied CD for any other devices. The CD is for the IC-PCR1500/R1500, IC-PCR2500/R2500 only.

DO NOT turn the main unit power OFF or disconnect the USB cable between the main unit and PC while IC-PCR1500 or IC-PCR2500 control software is running. This may result in the computer hang up.

DO NOT start vehicle engine while the IC-PCR1500 or IC-PCR2500 control software is running off of the vehicle's cigarette lighter socket (optional CP-12L required). This may result in the computer hang up.

DO NOT leave the main unit powered ON and connected to a vehicle's electrical system. The main unit draws approx. 550 mA. This will eventually drain the vehicle's battery.

For DC power operation

(while connecting an OPC-254L or CP-12L)

NEVER connect the receiver to a power source of more than 14 V DC. This will damage the receiver.

NEVER connect the receiver to a power source using reverse polarity. This will damage the receiver.

NEVER cut the DC power cable between the DC plug and fuse holder. If an incorrect connection is made after cutting, the receiver may be damaged.

If a connection cable is disconnected or has a loose connection during operation, an error may occur. Connect the connectors correctly, and **DO NOT** touch the connectors during operation.

For the operation of PC and peripheral devices, follow the instructions provided in the manuals which come with the PC and peripheral devices.

This device may cause signal interference when used in a domestic setting. When interference occurs, move this unit as far as possible away from the affected device.

All copyrights associated with this manual and all intellectual property rights associated with the hardware and software of the IC-PCR1500/PCR2500 are held by Icom Inc.

Unauthorized reproduction or transmission of this manual, or any part hereof, is prohibited.

The content of this manual, the hardware and software associated with the IC-PCR1500/PCR2500, and the appearance of the IC-PCR1500/PCR2500 are all subject to change without notice.

For U.S.A. only

CAUTION: Changes or modifications to this device, not expressly approved by Icom Inc., could void your authority to operate this device under FCC regulations.

ABOUT APCO PROJECT 25

This device made under license under one or more of the following US patents: #4,590,473, #4,636,791, #5,148,482, #5,185,796, #5,271,017, #5,377,229.

The IMBE™ voice coding technology embodied in this product is protected by intellectual property rights including patent rights, copyrights and trade secrets of Digital Voice Systems, Inc. This voice coding technology is licensed solely for use within this communications equipment. The user of this technology is explicitly prohibited from attempting to decompile, reverse engineer, or disassemble the object code, or in any other way convert the object code into a human-readable form. U.S. Pat. nos. #5,870,405, #5,826,222, #5,754,974, #5,701,390, #5,715,365, #5,649,050, #5,630,011, #5,581,656, #5,517,511, #5,491,772, #5,247,579, #5,226,084, #5,195,166.

P25 digital mode is available when the optional UT-122 DIGITAL UNIT is installed to IC-PCR2500 or IC-R2500.

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In this instruction manual, the screen shot contents may be different from the actual one.

■ Hardware installation

Refer to the diagram below for connections.

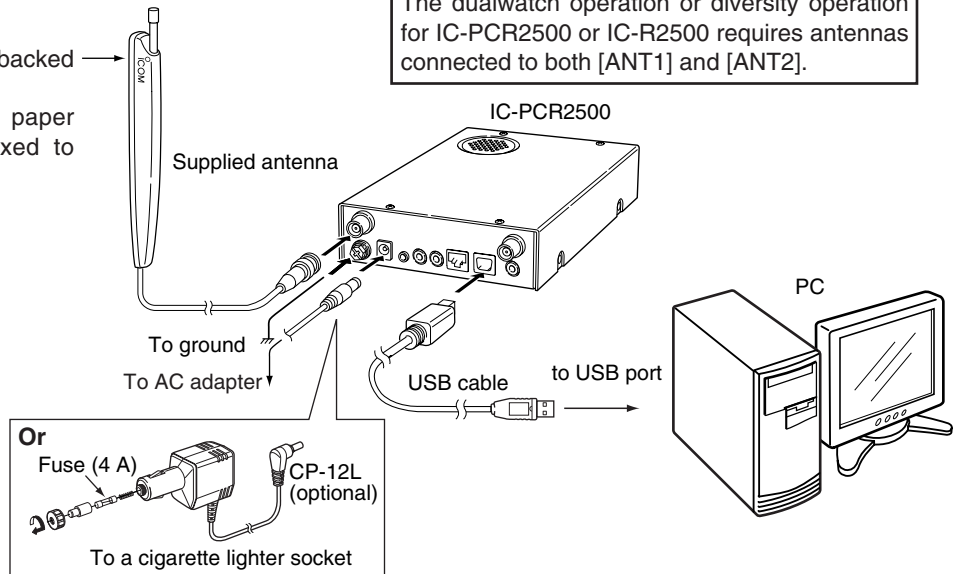
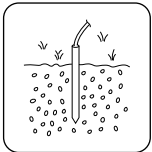
CAUTION: Icom Inc. assumes no responsibility for the receiver's operation resulting from the use of any other USB cable other than the one supplied by Icom in the original IC-PCR1500 or IC-PCR2500 package.

NOTE: The antenna's double sided tape may not adhere to all items. Additionally, the tape is not intended for multiple uses. Lastly, some items may be damaged by trying to remove the antenna holder once it has been taped into place. Icom Inc cannot accept any responsibility for any damage to any item caused by the supplied tape.

The antenna holder is backed with double-sided tape. Remove the protective paper when the antenna is fixed to any places.

The dualwatch operation or diversity operation for IC-PCR2500 or IC-R2500 requires antennas connected to both [ANT1] and [ANT2].

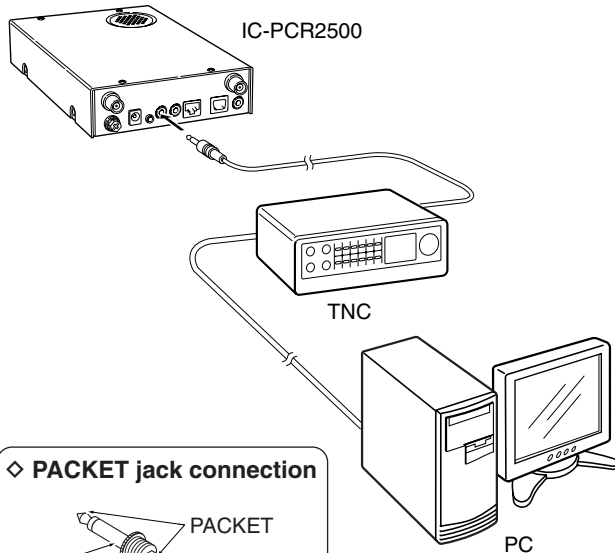
⚠ WARNING!: NEVER use a gas pipe or electrical conduit pipe for grounding.



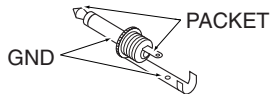
1 INSTALLATION

■ TNC connection

The IC-PCR1500/PCR2500 can receive 9600 bps packet communication (AFSK) with the use of a TNC (not supplied). Connect the TNC (Terminal Node Controller) as illustrated below. (Other connections are same as page 1.)



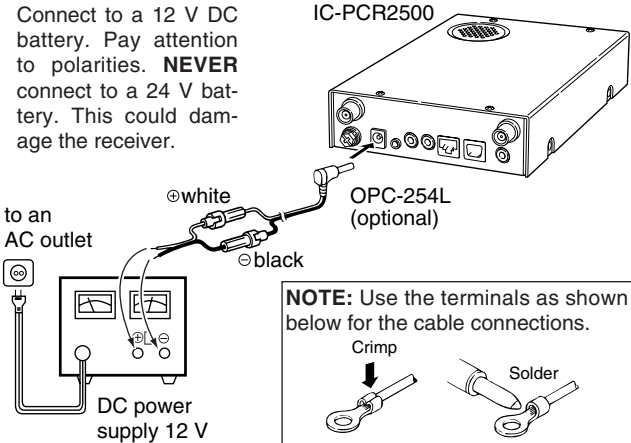
◇ PACKET jack connection



2-conductor 3.5 (d) mm
($\frac{1}{8}$ ")/100 k Ω

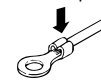
■ DC power supply connection

Use a 12 V DC power supply with at least 1.2 A capacity. Make sure the ground terminal of the DC power supply is grounded.



NOTE: Use the terminals as shown below for the cable connections.

Crimp

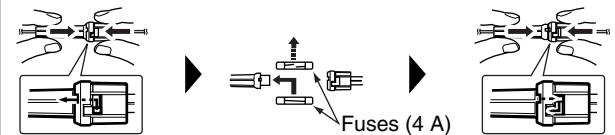


Solder



⚠ CAUTION! NEVER remove the fuse-holders from the DC power cable.

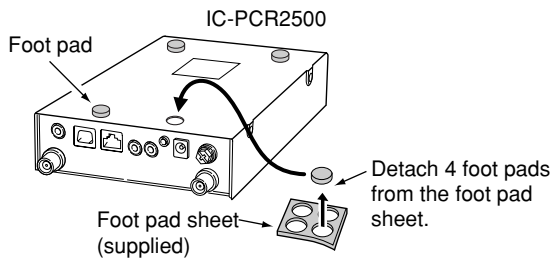
◇ Fuse replacement



■ Accessory attachments

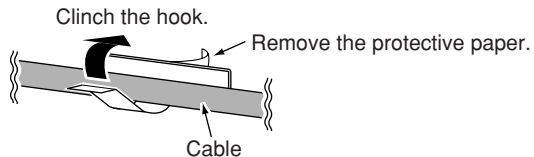
◇ Foot pad

Attach 4 foot pads to the bottom of the IC-PCR1500/PCR2500 as below.



◇ Cable hanger

The cable hanger is convenient for fixing a cable to the wall, etc.



/// The displayed dialog boxes or indications may differ slightly from the following instructions according to your system conditions, or environment.

■ Microsoft® Windows® XP

/// **NOTE:** Driver installation with CD is required when an additional Main unit is connected to the PC (i.e. 2 or more IC-PCR1500 or IC-PCR2500s (same model only) are connected to the PC). In such a case, install the driver as shown below.

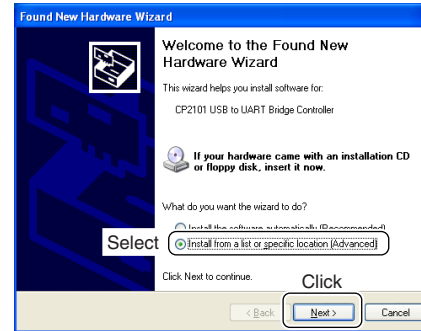
- ① Quit all applications when Windows is running.
- ② Connect the Main unit to the desired PC's USB port with the supplied USB cable.

/// **CAUTION:** Icom Inc. assumes no responsibility for the receiver's operation resulting from the use of any other USB cable other than the one supplied by Icom in the original IC-PCR1500 or IC-PCR2500 package.

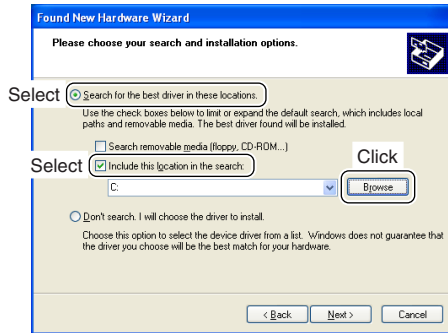
- ③ Insert the CD into the appropriate CD drive.
- ④ Turn the Main unit power ON.
 - The power indicator lights.
 - "Found New Hardware" appears as below.



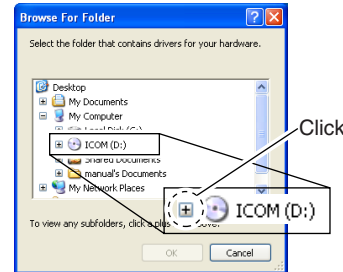
- ⑤ The CP2101 USB device is detected automatically, and the "Found New Hardware Wizard" will come up as below. Select "Install from a list or specific location (Advanced)," then click [Next>].



- ⑥ Select “Search for the best driver in these locations.” then select “Include this location in the search,” click [Browse].



- ⑦ Click “+” of the CD drive folder in “My Computer.”
 • The CD drive folder name (e.g. “D”) is depending on a PC.

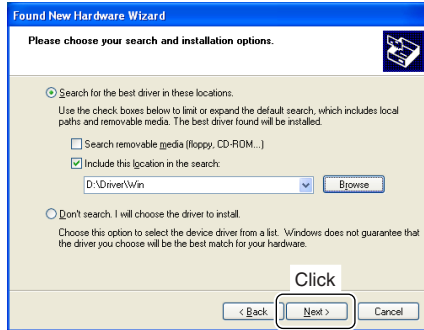


- ⑧ Click “+” of the “Driver” folder in the CD drive folder, then select “Win” folder.
 Click [OK].

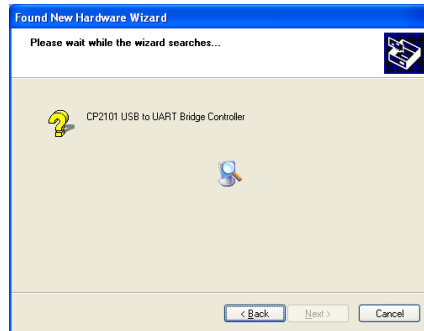


2 DRIVER INSTALLATION

⑨ Click [Next>].



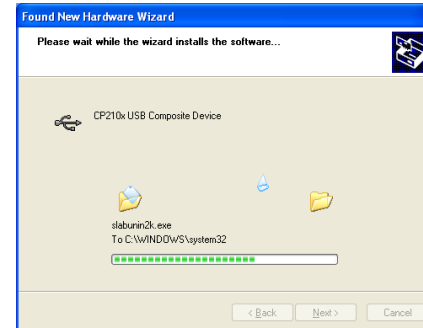
⑩ The Wizard starts searching for the driver and shows the dialog below during search.



⑪ After the driver is found, the “Hardware Installation” dialog box appears as below. Click [Continue Anyway] to start the installation.



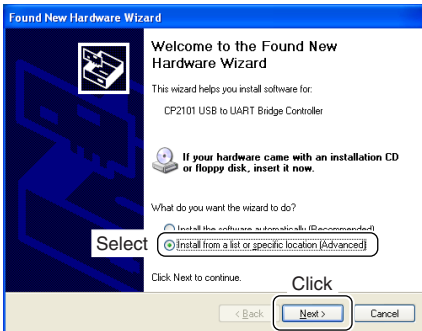
⑫ Windows starts installing the USB driver.



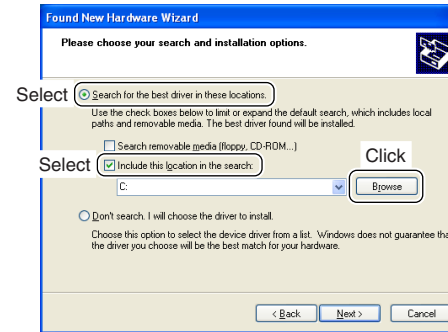
⑬ After the installation is completed, click [Finish].



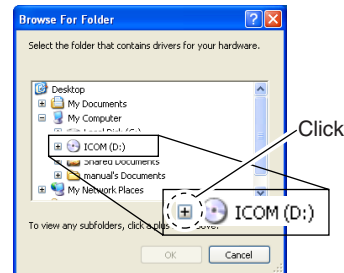
⑭ The “Found New Hardware Wizard” will come up again to install the USB serial port driver. Select “Install from a list or specific location (Advanced),” then click [Next>].



⑮ Select “Search for the best driver in these locations.” then select “Include this location in the search:”, click [Browse].



⑯ Click “[+]” of the CD drive folder in “My Computer.”
 • The CD drive folder name (e.g. “D”) is depending on a PC.

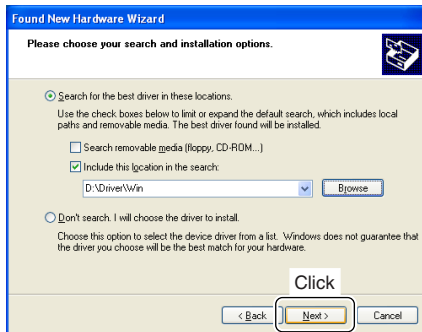


2 DRIVER INSTALLATION

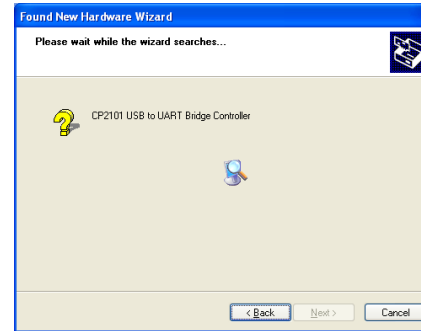
- 17 Click “+” of the “Driver” folder in the CD drive folder, then select “Win” folder.
Click [OK].



- 18 Click [Next>].



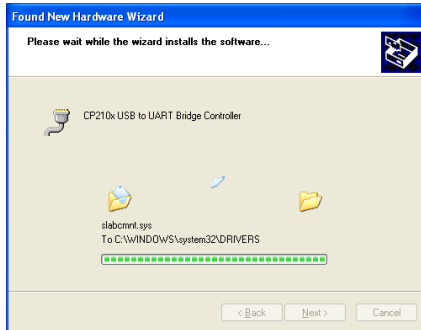
- 19 The Wizard starts searching for the driver and shows the dialog below during search.



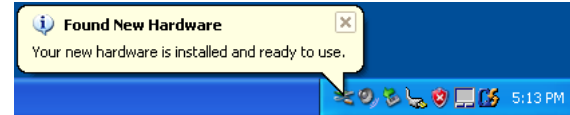
- 20 After the driver is found, the “Hardware Installation” dialog box appears as below.
Click [Continue Anyway] to start the installation.



⑳ Windows starts installing the USB driver.



㉓ After clicking [Finish], the dialog appears as below.



㉔ Eject the CD.

- Restarting the PC is recommended.

㉔ After the installation is completed, click [Finish].



2 DRIVER INSTALLATION

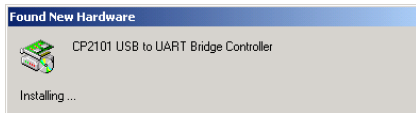
■ Microsoft® Windows® 2000

NOTE: Driver installation with CD is required when an additional Main unit is connected to the PC (i.e. 2 or more IC-PCR1500 or IC-PCR2500s (same model) are connected to the PC). In such a case, install the driver as shown below.

- ① Quit all applications when Windows is running.
- ② Connect the Main unit to the desired PC's USB port with the supplied USB cable.

CAUTION: Icom Inc. assumes no responsibility for the receiver's operation resulting from the use of any other USB cable other than the one supplied by Icom in the original IC-PCR1500 or IC-PCR2500 package.

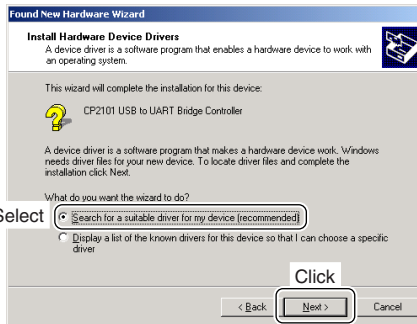
- ③ Insert the CD into the appropriate CD drive.
- ④ Turn the Main unit power ON.
 - The power indicator lights.
 - "Found New Hardware" appears as below.



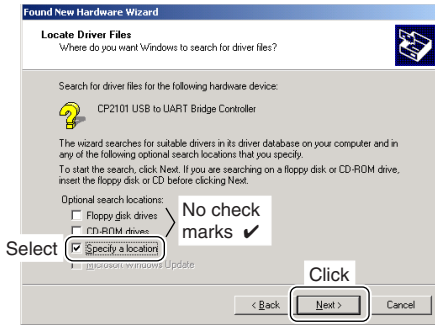
- ⑤ The CP2101 USB device is detected automatically, and the "Found New Hardware Wizard" will come up as below. Click [Next>].



- ⑥ Select "Search for a suitable driver for my device (recommended)," then click [Next>].



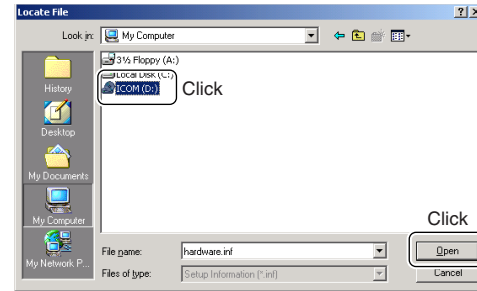
⑦ Select “Specify a location,” then click [Next>].



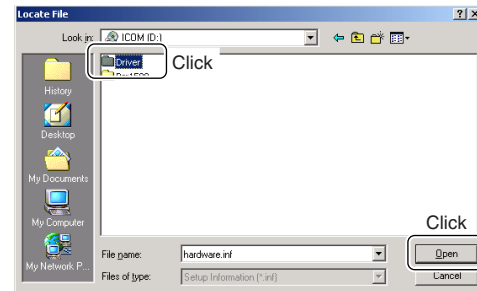
⑧ Click [Browse...].



⑨ Select the CD drive in “My Computer,” then click [Open].
 • The CD drive folder name (e.g. “D”) is depending on a PC.

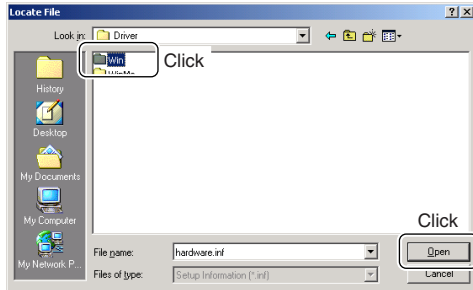


⑩ Select the “Driver” folder in the CD drive, then click [Open].

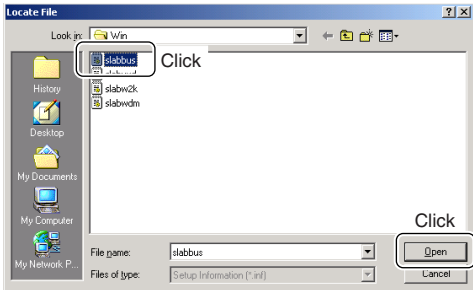


2 DRIVER INSTALLATION

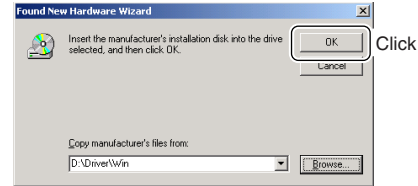
⑪ Select “Win” in the “Driver” folder, then click [Open].



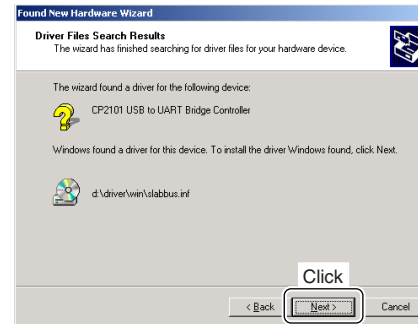
⑫ Select “Slabbus” in the “Win” folder, then click [Open].



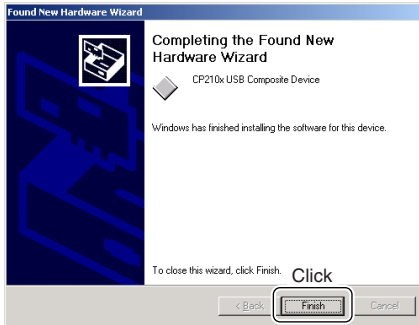
⑬ Click [OK].



⑭ When the driver is found, the following dialog is displayed. Click [Next>] to start the installation.



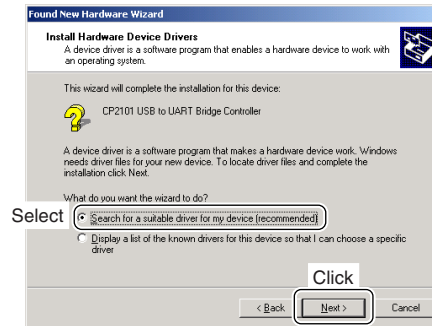
- ⑮ After the installation is completed, click [Finish].



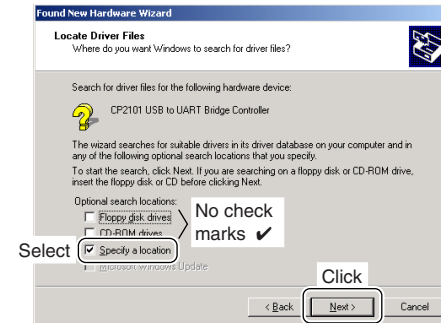
- ⑯ The “Found New Hardware Wizard” appears again. Click [Next>].



- ⑰ Select “Search for a suitable driver for my device (recommended),” then click [Next>].

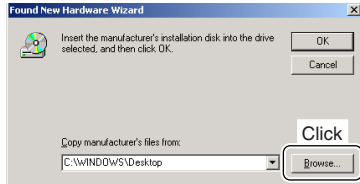


- ⑱ Select “Specify a location,” then click [Next>].

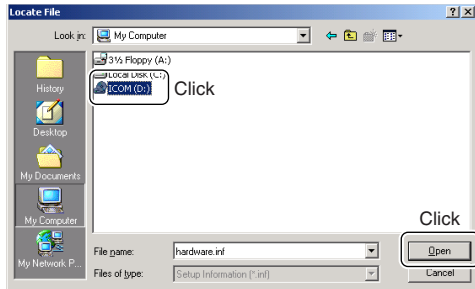


2 DRIVER INSTALLATION

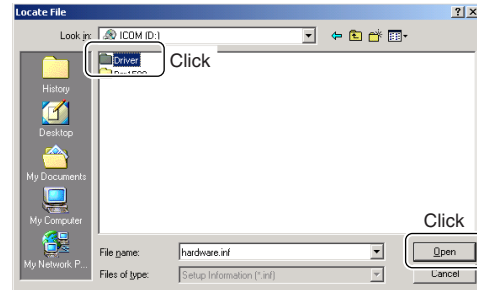
19 Click [Browse...].



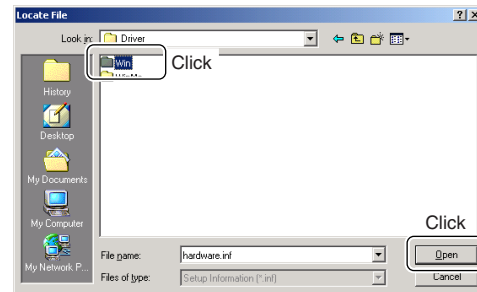
20 Select the CD drive in "My Computer," then click [Open].
• The CD drive folder name (e.g. "D") is depending on a PC.



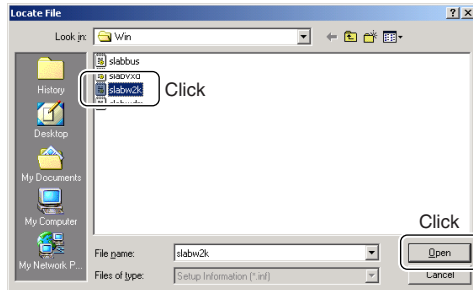
21 Select the "Driver" folder in the CD drive, then click [Open].



22 Select "Win" in the "Driver" folder, then click [Open].



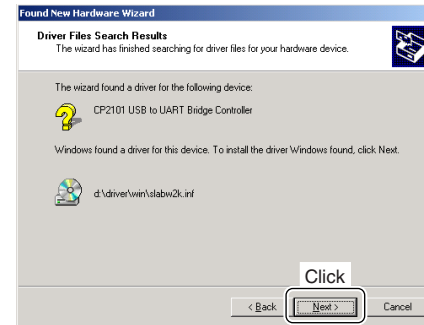
- 23 Select "Slabw2k" in the "Win" folder, then click [Open].



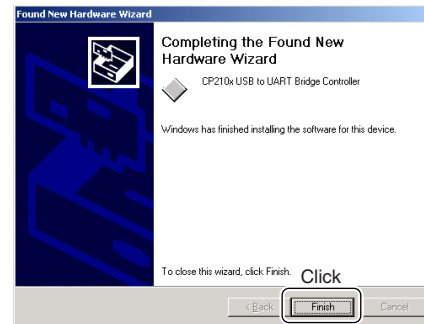
- 24 Click [OK].



- 25 When the driver is found, the following dialog is displayed. Click [Next>] to start the installation.



- 26 After the installation is completed, click [Finish].



- 27 Eject the CD.
• Restarting the PC is recommended.

2 DRIVER INSTALLATION

■ Microsoft® Windows® 98SE

- ① Quit all applications when Windows is running.
- ② Connect the Main unit to the desired PC's USB port with the supplied USB cable.

CAUTION: Icom Inc. assumes no responsibility for the receiver's operation resulting from the use of any other USB cable other than the one supplied by Icom in the original IC-PCR1500 or IC-PCR2500 package.

- ③ Insert the CD into the appropriate CD drive.
- ④ Turn the Main unit power ON.
 - The power indicator lights.
- ⑤ The CP2101 USB device is detected automatically, and the "Add New Hardware Wizard" will come up as below. Click [Next>].



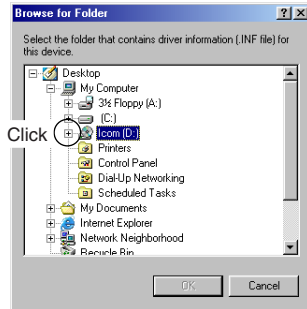
- ⑥ Select "Search for the best driver for your device. (Recommended)," then click [Next>].



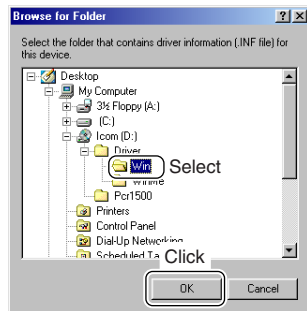
- ⑦ Select "Specify a location:", click [Browse...].



- ⑧ Click “+” of the CD drive folder in “My Computer”.
 • The CD drive folder name (e.g. “D”) is depending on a PC.



- ⑨ Select “Win” in the “Driver” folder, click [OK.]



- ⑩ Click [Next>].



- ⑪ When the driver is found, the following dialog is displayed.
 Click [Next>] to start the installation.



2 DRIVER INSTALLATION

- 12 After the installation is completed, click [Finish].



- 13 The “Add New Hardware Wizard” appears again. Click [Next>].



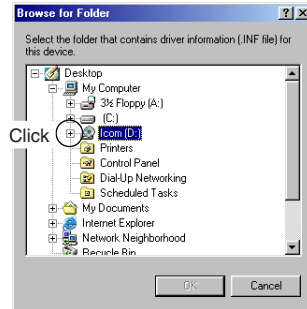
- 14 Select “Search for the best driver for your device. (Recommended),” then click [Next>].



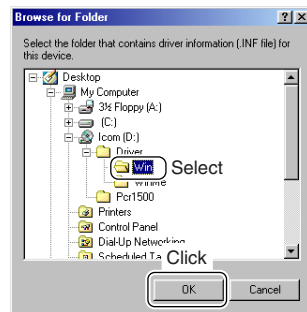
- 15 Select “Specify a location:”, click [Browse...].



- ⑩ Click “+” of the CD drive folder in “My Computer.”
- The CD drive folder name (e.g. “D”) is depending on a PC.



- ⑪ Select “Win” in the “Driver” folder, click [OK].



- ⑫ Click [Next>].



- ⑬ When the driver is found, the following dialog is displayed. Click [Next>] to start the installation.



2 DRIVER INSTALLATION

- ⑳ After the installation is completed, click [Finish].



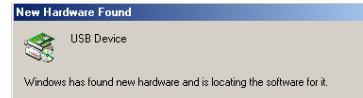
- ㉑ Eject the CD.
- Restarting the PC is recommended.

■ Microsoft® Windows® Me

- ① Quit all applications when Windows is running.
- ② Connect the Main unit to the desired PC's USB port with the supplied USB cable.

CAUTION: Icom Inc. assumes no responsibility for the receiver's operation resulting from the use of any other USB cable other than the one supplied by Icom in the original IC-PCR1500 or IC-PCR2500 package.

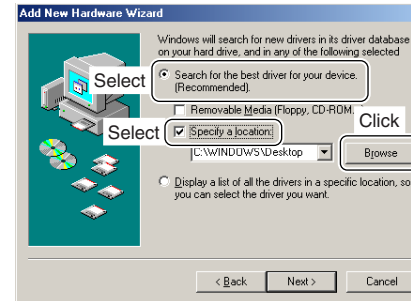
- ③ Insert the CD into the appropriate CD drive.
- ④ Turn the Main unit power ON.
 - The power indicator lights.
 - "New Hardware Found" appears as below.



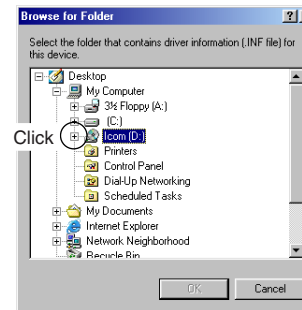
- ⑤ The CP2101 USB device is detected automatically, and the “Add New Hardware Wizard” will come up as below. Select “Specify the location of the driver (Advanced),” then click [Next>].



- ⑥ Select “Search for the best driver for your device. (Recommended),” then select “Specify a location:”, click [Browse].

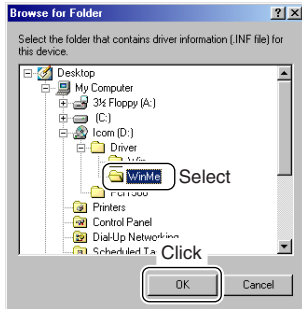


- ⑦ Click “+” of the CD drive folder in “My Computer.”
• The CD drive folder name (e.g. “D”) is depending on a PC.



2 DRIVER INSTALLATION

- ⑧ Select “WinMe” in the “Driver” folder, click [OK].



- ⑨ Click [Next>].



- ⑩ When the driver is found, the following dialog is displayed. Click [Next>] to start the installation.



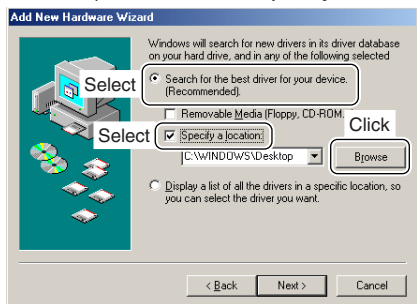
- ⑪ After the installation is completed, click [Finish].



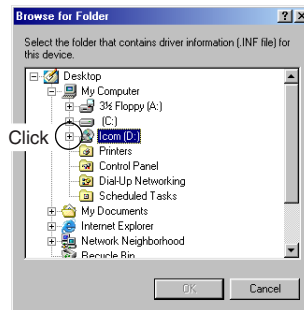
- ⑫ The “Add New Hardware Wizard” appears again. Select “Specify the location of the driver (Advanced),” then click [Next>].



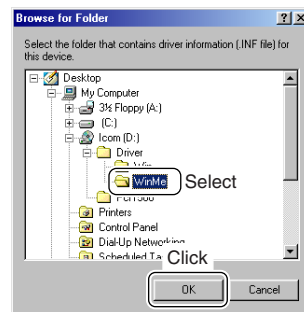
- ⑬ Select “Search for the best driver for your device. (Recommended),” then select “Specify a location:,” click [Browse].



- ⑭ Click “+” of the CD drive folder in “My Computer.”
• The CD drive folder name (e.g. “D”) is depending on a PC.



- ⑮ Select “WinMe” in the “Driver” folder, click [OK].



2 DRIVER INSTALLATION

16 Click [Next>].



18 After the installation is completed, click [Finish].



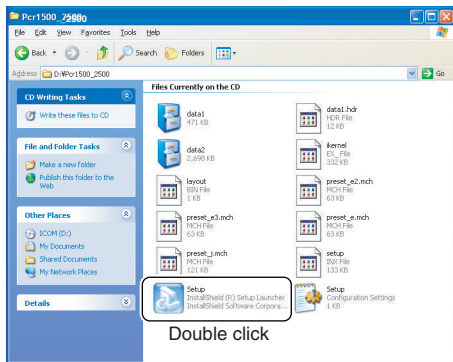
17 When the driver is found, the following dialog is displayed. Click [Next>] to start the installation.



19 Eject the CD.
• Restarting the PC is recommended.

■ Installation

- ① Quit all applications when Windows is running.
- ② Insert the CD into the CD drive.
- ③ Open the CD drive contents via “My computer” or “Windows Explorer.”
 - “Driver” and “Pcr1500_2500” folders are included.
- ④ Double click “Setup.exe” file in “Pcr1500_2500” folder.



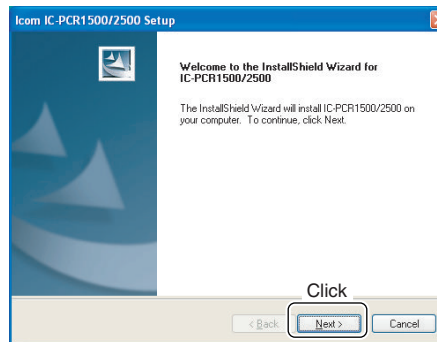
- The “InstallShield® Wizard” starts preparing the installation.



- ⑤ Select the display language type from “English” or “Japanese.” Click [Next>].

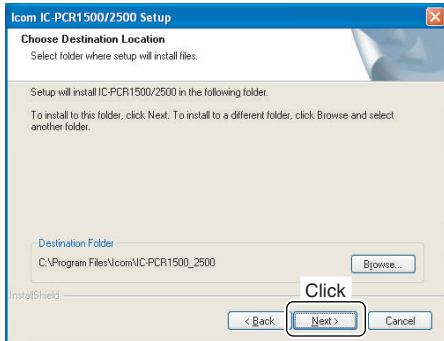


- ⑥ After the preparation, the following dialog is displayed. Click [Next>].

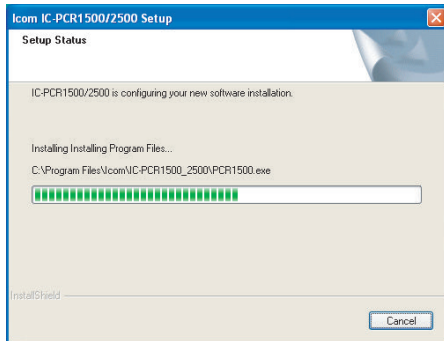


3 APPLICATION INSTALLATION

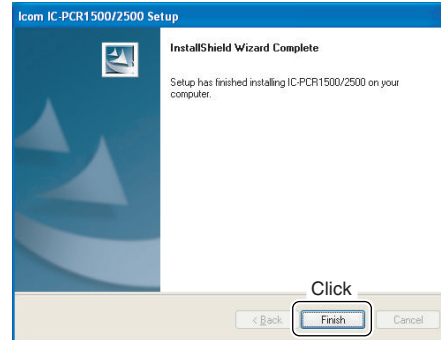
- ⑦ Confirm the location, then click [Next>] to start the installation.
- Click [Browse...] then type the desired location if you specifying the installation location.



- The installation starts.



- ⑧ After the installation is completed, click [Finish].



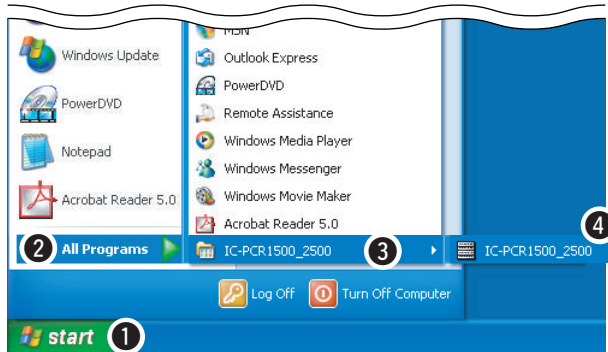
- ⑨ Eject the CD.
- The IC-PCR1500_2500 shortcut icon is created on the desktop.
 - Restarting the PC is recommended.

■ Launching the IC-PCR1500_2500

◇ Microsoft® Windows® XP

- ① Before launching the program, please be sure the Main unit is turned ON.
 - The power indicator lights green.
- ② Click the [Start] button and point to [All Programs].
- ③ Point to the “IC-PCR1500_2500” folder.
- ④ Click the “IC-PCR1500_2500” program.

(or simply double click the desktop short cut icon as below, which was automatically created during application installation.)



Short cut icon

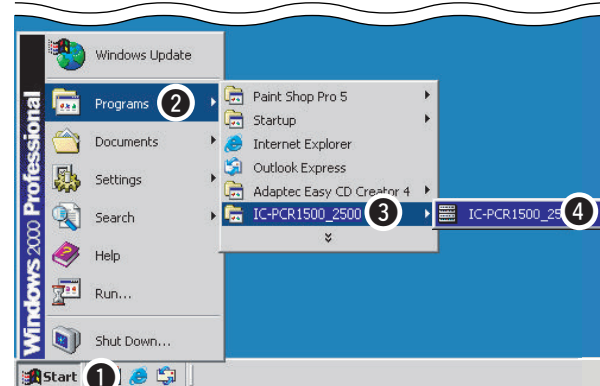


/// **NOTE:** If you see a “Communication error” note, wait approx. 20 seconds before launching the program.

◇ Microsoft® Windows® 98SE/Me/2000

- ① Before launching the program, please be sure the Main unit is turned ON.
 - The power indicator lights green.
- ② Click the [Start] button and point to [Programs].
- ③ Point to the “IC-PCR1500_2500” folder.
- ④ Click the “IC-PCR1500_2500” program.

(or simply double click the desktop short cut icon as below, which was automatically created during application installation.)



Short cut icon



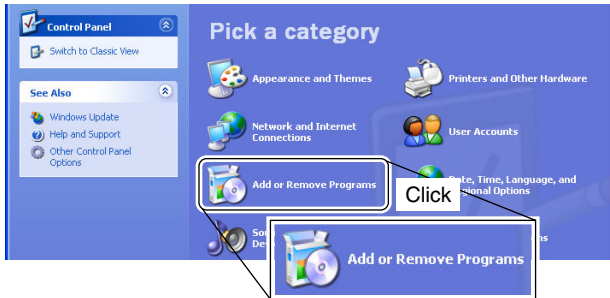
/// **NOTE:** If you see a “Communication error” note, wait approx. 20 seconds before launching the program.

3 APPLICATION INSTALLATION

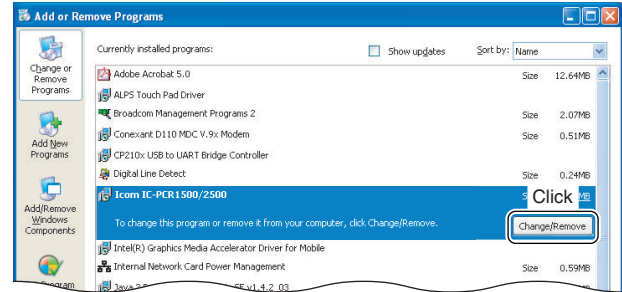
■ Uninstall

In this section, screen shots of Windows XP are used for the instruction example. However, the instructions are similar to the other operating systems, Windows 98SE, Me and 2000.

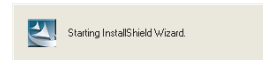
- ① Start up Windows.
- ② Select the “Control Panel” in the Start menu.
 - The control panel appears as shown in the next step below.
- ③ Click the “Add or Remove Programs.”
 - The “Add or Remove Programs” menu appears.



- ④ Click the “Icom IC-PCR1500/2500,” then click [Change/Remove].



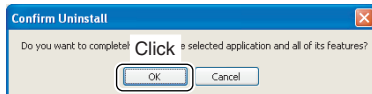
- The “InstallShield® Wizard” starts preparing the installation.



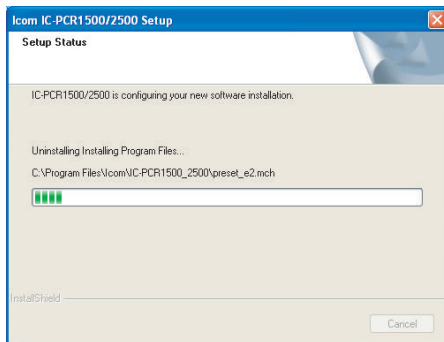
- ⑤ Select the display language type from “English” or “Japanese,” click [Next>].



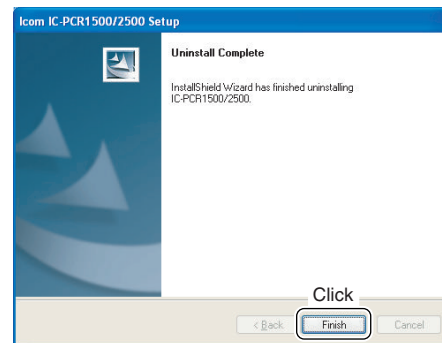
- ⑥ After the preparation, “Confirm Uninstall” appears, click [OK] to remove the program from the PC.



- The uninstallation starts.



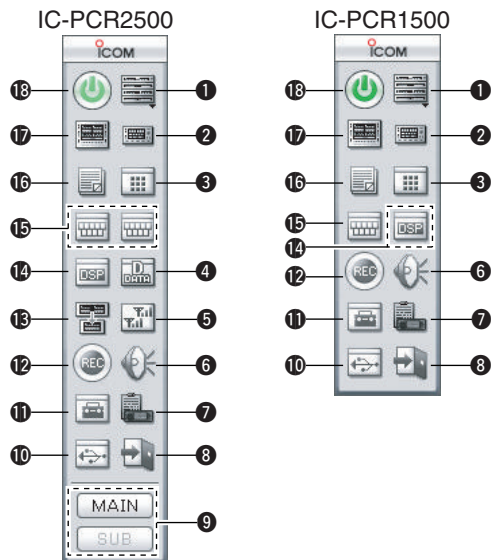
- ⑦ After the uninstall is completed, click [Finish].



■ Application screens (on PC screen)

◇ Tool bar

The application screen can be seen after the application installation. See page 25 for details.



- 1 **COMPONENT BUTTON** (pgs. 37, 45)
Click to display the Component screen.
- 2 **SIMPLE BUTTON** (pgs. 36, 46)
Click to display the Simple screen.
- 3 **MULTI CHANNEL MONITOR BUTTON** (p. 110)
Click to make the multi channel monitor screen appear/disappear.
- 4 **DIGITAL MENU BUTTON** (p. 118)
Click to select the DV digital menu or P25 digital menu.
- 5 **DIVERSITY OPERATION BUTTON** (p. 66)
Click to make the diversity reception mode ON and OFF.
- 6 **AUDIO SETTING BUTTON** (p. 106)
Click to make the audio setting screen appear/disappear.
- 7 **CLONE BUTTON** (p. 130)
Click to make the cloning screen appear/disappear.
- 8 **EXIT BUTTON** (p. 46)
Click to quit the control program.
- 9 **MAIN/SUB BUTTONS** (p. 67)
Click to select the Main band/Sub band during dualwatch operation.
- 10 **USB PORT SETTING BUTTON** (p. 128)
Click to make the USB setting screen appear.

11 SETTING BUTTON

For IC-PCR1500 (pgs. 55, 116)

Click to make the auto mode setting list, short cut key list and etc. screen appear/disappear.

For IC-PCR2500 (pgs. 55, 116, 119, 121)

Click to make the auto mode setting list, short cut key list, DV*1 mode setting, P25*2 mode setting and etc. screen appear/disappear.

*1: The optional UT-118 is required.

*2: The optional UT-122 is required.

Some versions already come with the UT-122 installed.

12 RECORDING BUTTON (p. 112)

Click to make the recording screen appear/disappear.

13 SINGLE BAND/DUALWATCH BUTTON (p. 64)

Click to toggle the single band operation and dualwatch operation.

14 DSP DIGITAL FILTER BUTTON (pgs. 117)

Click to make the DSP digital filter screen appear/disappear.

15 DTMF REMOTE COMMANDER BUTTON (p. 104)

For IC-PCR1500

Click to make the DTMF remote commander screen appear/disappear.

For IC-PCR2500

Click to make the DTMF remote commander screen appear/disappear for main band (right button) and sub band (left button). The DTMF remote commander screen for sub band can not be accessed when optional UT-108 is not installed or during single band operation or diversity receive mode.

16 MEMORY CHANNEL BUTTON (pgs. 69, 112)

Click to make the memory channel screen appear/disappear.

17 MULTI-FUNCTION RECEIVER BUTTON (pgs. 32, 44)

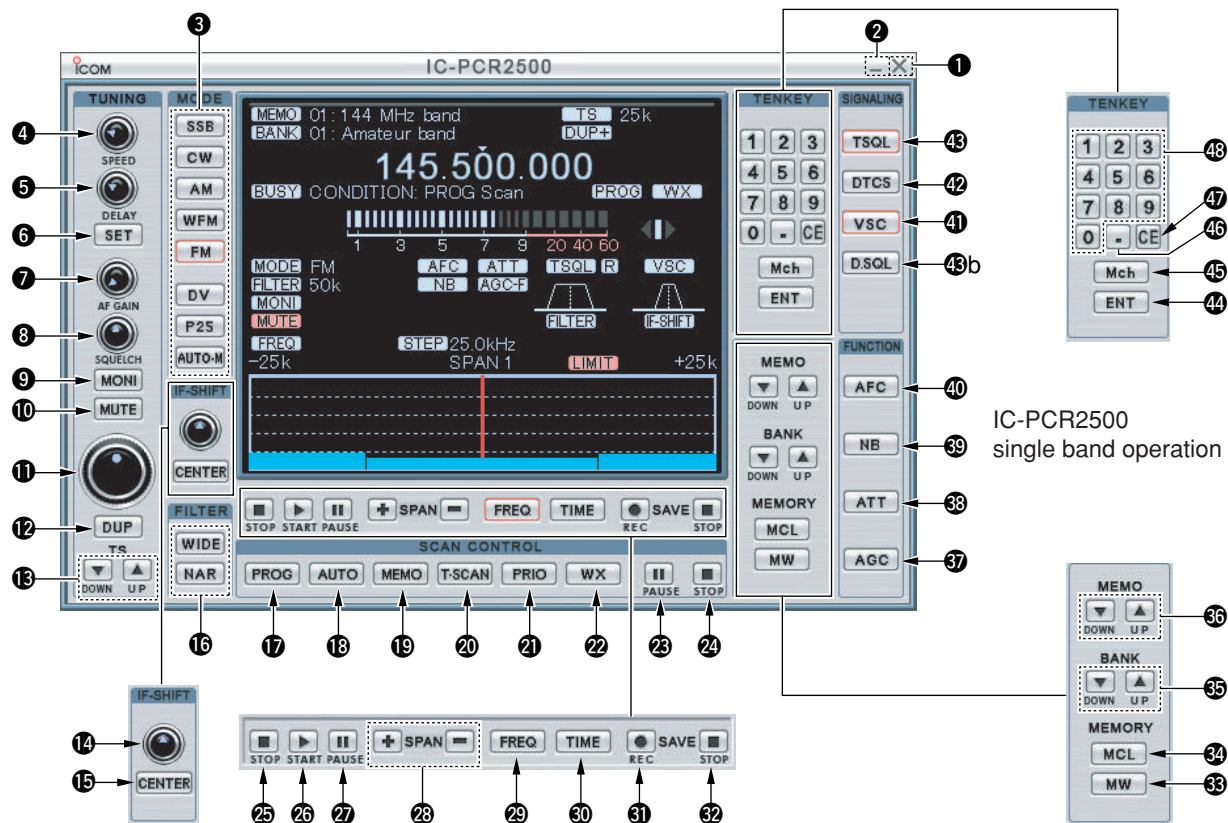
Click to display the Multi-function receiver screen.

18 POWER BUTTON (p. 44)

Click to make the control program connection to Main unit connect/disconnect.

4 PANEL DESCRIPTION

◇ [Receiver] (Multi-function receiver) screen



1 CLOSE BUTTON (p. 46)

Click to quit and exit the application screen.

2 MINIMIZE BUTTON

Click to minimize the application screen.

3 RECEIVE MODE BUTTONS ([SSB], [CW], [AM], [WFM], [FM], [DV]*¹, [P25]*² and [AUTO-M]) (pgs. 54, 55)

Click to select a receive mode.

- When using [AUTO-M] (automatic mode), a receive mode, IF filter passband width, tuning step, etc., are selected automatically after inputting a frequency.

*¹, *²: For IC-PCR2500 only.

*¹ : The optional UT-118 is required.

*² : The optional UT-122 is required.

Some versions already come with the UT-122 installed.

4 SCAN SPEED CONTROL [SPEED] (p. 91)

Click to set the scan speed at which channels or frequencies are searched during scan operation.

- Right-click to increase the speed level. (Scan is faster)
- Left-click to decrease the speed level. (Scan is slower)

5 SCAN DELAY TIME CONTROL [DELAY]

Click to set the period in which a scan pauses after receiving a signal.

- Right-click to increase the period.
- Left-click to decrease the period.

6 SET BUTTON [SET] (p. 90)

Click to show the [Scan Delay] screen.

This screen is used for the settings of the scan delay details.

7 AUDIO FREQUENCY GAIN CONTROL [AF GAIN] (p. 52)

Click to adjust the audio output level.

- Right-click to increase the audio output level.
- Left-click to decrease the audio output level.

8 SQUELCH CONTROL [SQUELCH] (p. 53)

Click to adjust the squelch threshold level.

The squelch removes noise output from the speaker (closed condition) when no signal is received.

- Right-click to close the squelch.
- Left-click to open the squelch.

9 MONITOR BUTTON [MONI] (p. 56)

Click to turn the monitor function ON or OFF.

The monitor function is used to temporarily open the squelch to listen for a weak signal.

10 MUTE BUTTON [MUTE] (p. 56)

Click to turn the mute function ON or OFF.

This function is used to temporarily mute the audio output.

11 TUNING DIAL (p. 48)

Click to set the receive frequency with the selected tuning step.

- Right-click to increase the frequency.
- Left-click to decrease the frequency.

12 DUPLEX BUTTON [DUP] (p. 57)

- Right-click to display the offset frequency setting screen.
- Left-click to set the duplex direction from OFF (no indication), DUP −, and DUP +.

13 TUNING STEP UP/DOWN BUTTONS [▲]/[▼] (p. 50)

- Right-click to display the tuning step setting screen.
- Left-click to select the tuning steps in order.

4 PANEL DESCRIPTION

14 IF-SHIFT CONTROL (p. 61)

Click to set a signal passband position.

- Right-click to increase the signal passband position.
- Left-click to decrease the signal passband position.

15 CENTER KEY [CENTER] (p. 61)

After setting a signal passband position with clicking the IF-shift control, click to return to the center position.

16 IF FILTER BUTTONS [WIDE]/[NAR] (p. 58)

Click to change the IF filter in use.

- Click [WIDE] to select a wide filter.
- Click [NAR] to select a narrow filter.

*Usable IF filter is according to the receive mode.

17 PROGRAMMED SCAN BUTTON [PROG] (p. 81)

Click to start/stop a programmed scan.

- “PROG Scan” blinks during scanning.

18 AUTO MEMORY WRITE SCAN BUTTON [AUTO] (p. 84)

Click to start/stop an auto memory write scan.

- “AUTO MW Scan” blinks during scanning.

19 MEMORY SCAN BUTTON [MEMO] (pgs. 86, 88)

Click to start/stop a memory scan.

- “MEMO Scan” blinks during scanning.

20 TONE SCAN BUTTON [T-SCAN] (p. 97)

Click to start/stop a tone scan.

- “TONE Scan” blinks during scanning.

21 PRIORITY SCAN BUTTON [PRIO] (p. 92)

Click to start/stop a priority scan.

- “PRIO Scan” blinks during scanning.

22 WEATHER ALERT BUTTON [WX] (p. 62)

Push to start the weather alert function. (USA and CANADA versions only)

- “WX” appears.

23 SCAN PAUSE BUTTON [II]

Push to pause/resume a scan.

- “Pause” blinks during scan is pausing.

24 SCAN STOP BUTTON [■]

Push to cancel a scan operation.

25 SWEEP STOP BUTTON [■] (p. 98)


Click to cancel a band scope operation.

26 SWEEP START BUTTON [▶] (p. 98)

Click to start the band scope operation which is used to observe signal conditions around the receive frequency.

27 SWEEP PAUSE BUTTON [II] (p. 98)

Click to pause/resume a band scope sweeping.

 **NOTE:** While using the band scope function, audio is disabled in SSB and CW modes. To monitor the frequency, push [II] to pause the function, or push [■] to cancel the function.

28 SPAN (TIME) UP/DOWN BUTTON [+]/[-]

When “FREQUENCY” mode is displayed;

Click to select the band scope edge frequency. (p. 98)

When “TIME” mode is displayed;

Click to select the time interval to show the receiving signal. (p. 98)

- 29 FREQUENCY BUTTON [FREQ]** (p. 98)
Click to show the receiving signal relative to signal strength while sweeping.
- 30 TIME BUTTON [TIME]** (p. 98)
Click to show the received signal strength in the specified time period while sweeping.
- 31 REC BUTTON [●]** (p. 100)
Click to start saving the sweep data.
- 32 STOP BUTTON [■]** (p. 100)
Click to stop saving.
- 33 MEMORY WRITE BUTTON [MW]** (p. 70)
Click to write the current receive frequency into the selected memory channel.
- 34 MEMORY CLEAR BUTTON [MCL]** (p. 76)
Click to clear the displayed memory channel contents.
- 35 BANK UP/DOWN BUTTONS [▲]/[▼]** (p. 68)
Click to change the memory bank.
- 36 MEMORY CHANNEL UP/DOWN BUTTONS [▲]/[▼]**
(p. 68)
Click to change a memory channel.
- 37 AUTOMATIC GAIN CONTROL BUTTON [AGC]** (p. 60)
Click to toggle the AGC (Automatic Gain Control) time constant between slow and fast.
• “AGC-F” appears when the AGC fast is selected.
- 38 ATTENUATOR BUTTON [ATT]** (p. 59)
Click to turn the ATT (Attenuator) function ON or OFF.
• “ATT” appears when the ATT function is turned ON.
- 39 NOISE BLANKER BUTTON [NB]** (p. 60)
Click to turn the NB (Noise Blanker) function ON or OFF.
• “NB” appears when the NB function is turned ON.
- 40 AUTOMATIC FREQUENCY CONTROL BUTTON [AFC]**
(p. 59)
Click to turn the AFC (Automatic Frequency Control) function ON or OFF.
• “AFC” appears when the AFC function is turned ON.
- 41 VOICE SQUELCH CONTROL BUTTON [VSC]** (p. 61)
Click to turn the VSC (Voice Squelch Control) function ON or OFF.
• “VSC” appears when the VSC function is turned ON.
- 42 DTCS SETTING BUTTON [DTCS]** (p. 95)
➤ Click to turn the DTCS squelch ON or OFF.
• “DTCS” appears when the DTCS squelch is turned ON.
• Available only when FM mode is selected.
➤ When the DTCS squelch is turned ON, right-click to display the [DTCS] screen.
- 43 TSQL SETTING BUTTON [TSQL]** (p. 94)
➤ Click to turn the tone squelch ON or OFF.
• “TSQL” appears when the tone squelch is turned ON.
• Available only when FM mode is selected.
➤ When the tone squelch is turned ON, right-click to display the [TSQL] screen.

4 PANEL DESCRIPTION

43b DSQ L SETTING BUTTON [DSQ L]

- ➔ Click to turn the digital squelch ON or OFF.
 - Available only when DV *1 or P25 *2 mode is selected.
- ➔ When the digital squelch is turned ON, right-click to display the [DV Digital SQL] or [P25 Digital SQL] screen.

*1, *2 : For IC-PCR2500 only.

*1 : The optional UT-118 is required.

*2 : The optional UT-122 is required.

Some versions already come with the UT-122 installed.

44 ENTER KEY [ENT]

Click to enter the frequency when the desired receive frequency is input via the 10-keypad (48) or PC keyboard.

45 MEMORY CHANNEL KEY [Mch]

Click to call the memory channel when the desired channel number is input via the 10-keypad (48) or PC keyboard.

46 TENKEY— DECIMAL BUTTON [.]

Click to set the MHz digit when inputting a frequency via the 10-keypad.

47 TENKEY— CLEAR BUTTON [CE]

Click to clear the mistake while inputting a receive frequency or memory channel number via the 10-keypad (48) or PC keyboard.

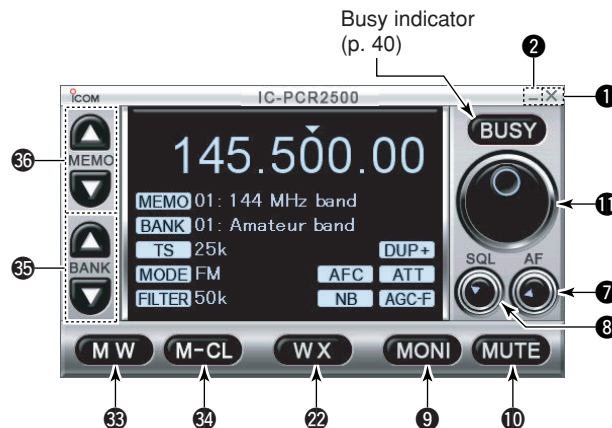
48 TENKEY— 10-KEYPAD [1] to [0]

The 10-keypad can be used for several functions as below:

- Direct receive frequency input.
- Memory channel input.

◇ [Simple] screen

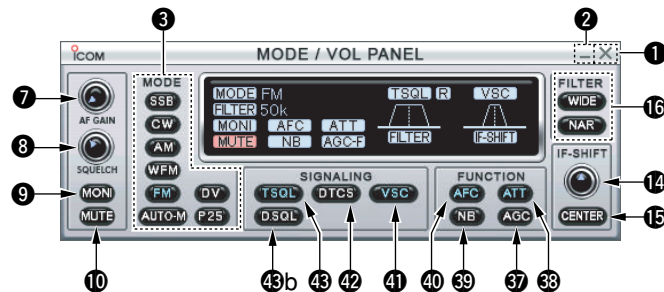
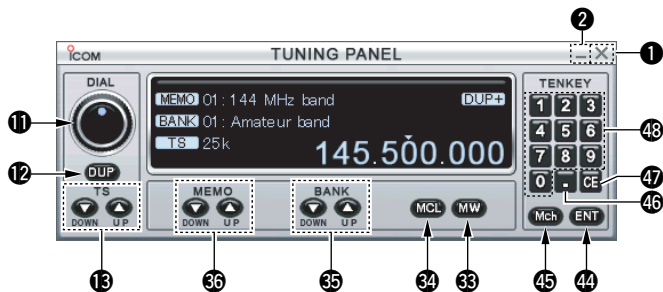
The Simple screen buttons, controls, etc. operate the same as the Multi-function receiver screens. Please refer to the explanations on pages 33 to 36.



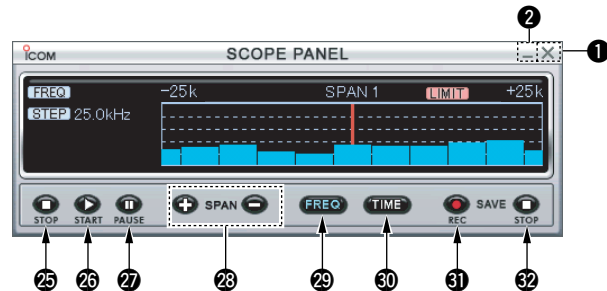
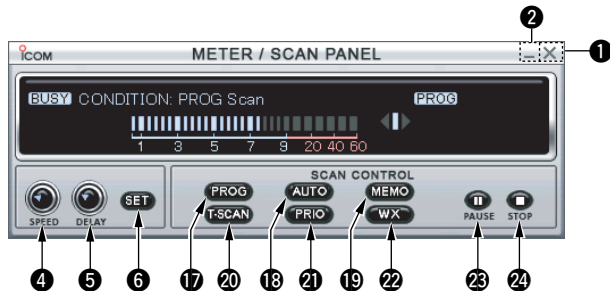
IC-PCR2500 single band operation

◇ [Compo] (Component) screen

The Component screen buttons, controls, etc. operate the same as the Multi-function receiver screens. Please refer to the explanations on pages 33 to 36.

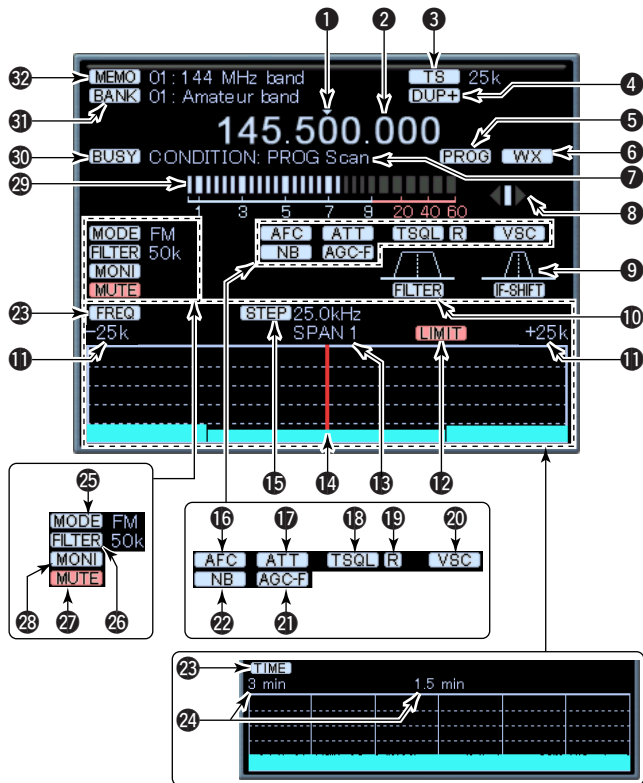


IC-PCR2500 single band operation



4 PANEL DESCRIPTION

◇ Function display (on Multi-function receiver screen)



1 TUNING STEP INDICATOR

Indicates the tuning step digit.

2 FREQUENCY READOUT

Indicates the receive frequency and data as it is being input such as memory channel numbers, etc.

3 TUNING STEP INDICATOR (p. 50)

This is the frequency increment used when selecting a frequency using the tuning dial and when searching for signals using a scan function.

4 DUPLEX INDICATOR (p. 57)

“DUP+” appears when plus duplex, “DUP-” appears when minus duplex operation is selected.

5 SCAN INDICATOR (pgs. 82, 85, 87, 89, 93, 97)

“PROG,” “AUTO,” “MEMO,” “T-SCAN” or “PRIO” appears during scanning.

6 WEATHER INDICATOR (pgs. 62, 63)

Appears when weather function is turned ON. (USA and CANADA versions only)

7 CONDITION INDICATOR

Indicates the receiver's condition.

8 FM CENTER INDICATORS

➤ “◀” or “▶” appears when the received signal is not tuned to its center frequency; or the squelch is closed.

➤ “■” appears when the received signal is tuned to its center frequency.

9 IF-SHIFT INDICATOR (p. 61)

Indicates the received signal passband position.

10 IF-FILTER PASSBAND WIDTH INDICATOR (p. 58)

Indicates the current signal passband width.

11 MAXIMUM FREQUENCY SPAN INDICATORS (p. 99)

- Indicates the upper and lower observable frequency limits around a receive frequency.
- In the diagram, the upper and lower limits are ± 500 kHz.

12 LIMIT/PAUSE INDICATOR (p. 99)

- “LIMIT” appears when the tuning step (9) is larger than the automatic sweep step (13) setting.
 - The limit indicator is not indicated when the tuning step and the sweep step width are the same.
- “PAUSE” appears while the band scope is pausing.

13 FREQUENCY SPAN INDICATOR (p. 99)

Indicates the frequency span selected with the [SPAN +] or [SPAN -] button.

14 CENTER FREQUENCY INDICATOR (p. 99)

Indicates the center frequency of the frequency span; this is for the currently received frequency.

15 SWEEP STEP INDICATOR (p. 99)

Indicates band scope sweep step.

16 AFC INDICATOR [AFC] (p. 59)

Appears when the AFC (Automatic Frequency Control) function is ON.


17 ATTENUATOR INDICATOR [ATT] (p. 59)

Appears when the ATT (Attenuator) function is ON.

18 TSQ/DTCS INDICATOR [TSQ]/[DTCS]

- “TSQ” appears when the tone squelch frequency is set. (p. 94)
- “DTCS” appears when DTCS code and the polarity are set. (p. 95)

19 REVERSE/POCKET BEEP INDICATOR [R]/

- “[R]” appears when the reverse action is set. (pgs. 94, 95)
- “

20 VSC INDICATOR [VSC] (p. 61)

Appears when the VSC (Voice Squelch Control) function is ON.

21 AGC INDICATOR [AGC-F] (p. 60)

“AGC-F” appears when the AGC fast is selected.

22 NB INDICATOR [NB] (p. 60)

Appears when the NB (Noise Blanker) function is ON.

23 FREQUENCY/TIME INDICATOR [FREQ]/[TIME] (p. 99)

- “FREQ” appears when Frequency mode is selected in the band scope operation.
- “TIME” appears when Time mode is selected in the band scope operation.

24 TIME INTERVAL INDICATORS (p. 99)

Indicates the time interval to sweep the receiving signal.

4 PANEL DESCRIPTION

25 RECEIVE MODE INDICATORS (p. 54)

Indicate the current receive mode.

26 IF FILTER INDICATOR (p. 58)

Indicates the selected IF filter.

27 MUTE INDICATOR (p. 56)

Appears when the squelch circuit mutes the received audio signal.

28 MONITOR INDICATOR (p. 56)

Appears during monitoring the operating frequency.

29 S (SIGNAL) METER (pgs. 47, 53)

➤ Indicates the receive signal strength.

➤ Indicates the S-meter squelch receive level set via the [SQUELCH] control.

30 BUSY INDICATOR [BUSY]

Appears when receiving a signal or when signal noise opens the squelch.

31 MEMORY BANK INDICATOR (p. 68)

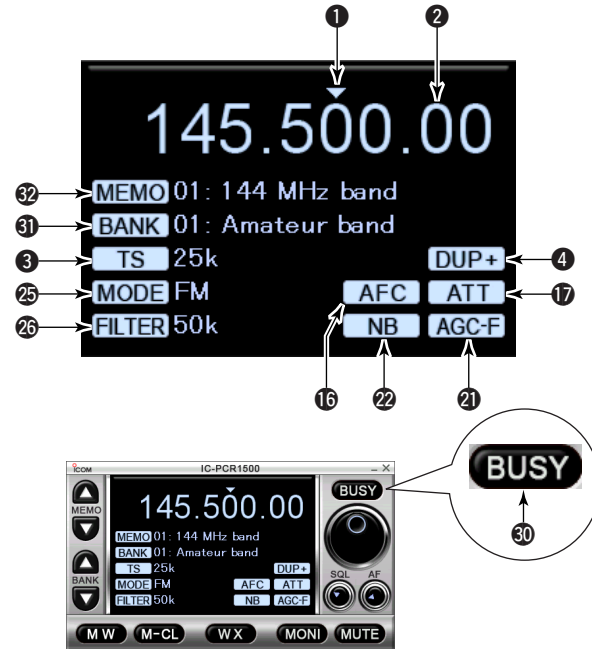
Indicates the memory bank number (and name if it is set) being received.

32 MEMORY CHANNEL INDICATOR (p. 68)

Indicates the memory channel number (and name if it is set) being received.

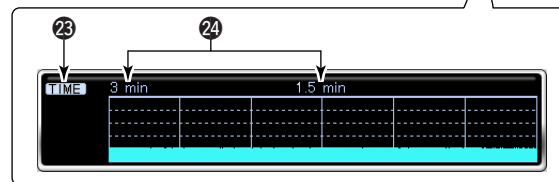
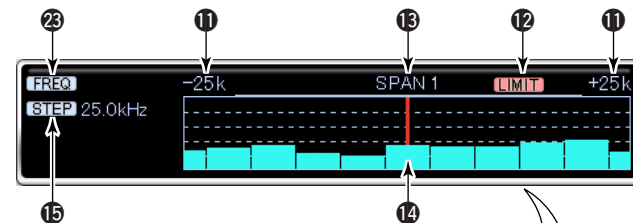
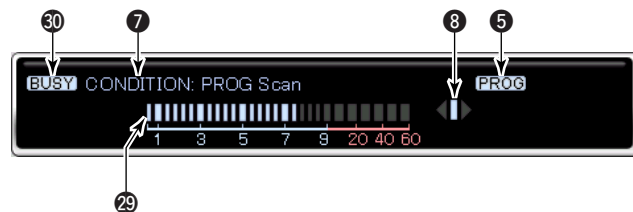
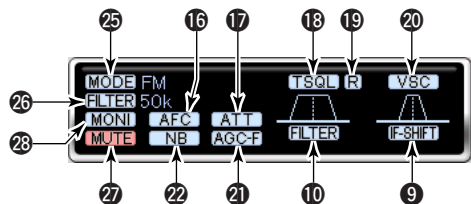
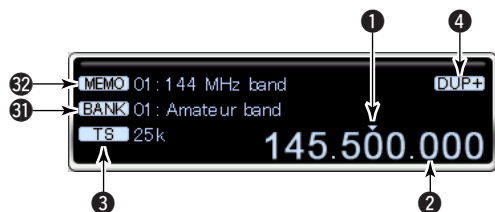
◇ Function display (on Simple screen)

The function display indicators on the Simple screen operate the same as on the Multi-function receiver screens. Please refer to the explanations on pages 38 to 40.



◇ **Function display (on Component screen)**

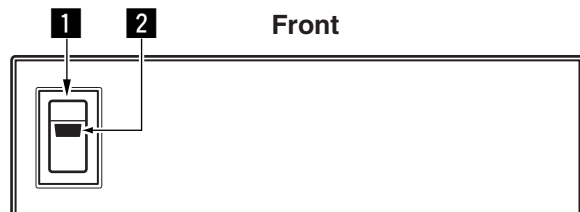
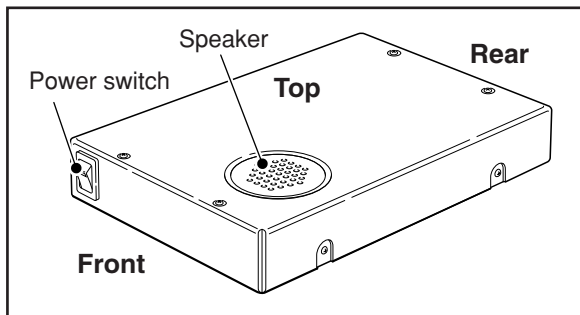
The function display indicators on the Component screen operate the same as on the Multi-function receiver screens. Please refer to the explanations on pages 38 to 40.



4 PANEL DESCRIPTION

■ Main unit

◇ Front panel



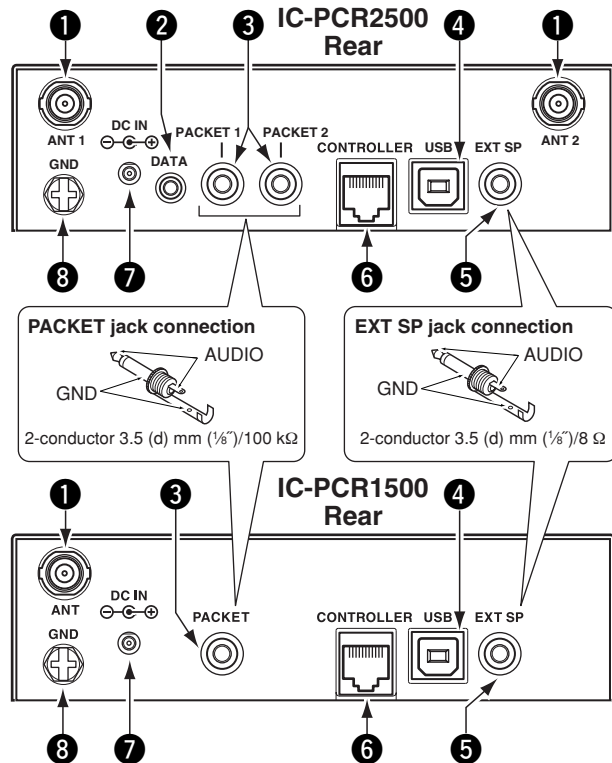
1 POWER SWITCH [POWER]

Turn the Main unit power ON and OFF.

2 POWER INDICATOR

Lights green when the Main unit is turned ON.

◇ Rear panel



1 ANTENNA CONNECTORS

Connect a 50 Ω antenna with a BNC connector and a 50 Ω coaxial cable.

For IC-PCR2500

[ANT1] for Main band, [ANT2] for Sub band.

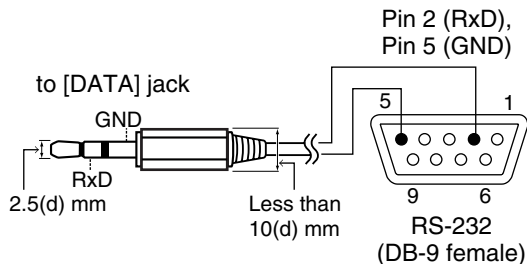
For IC-PCR2500

Two antennas must be connected to [ANT1] and [ANT2] during dualwatch operation or diversity operation. Diversity operation requires two antennas of the same performance in suitable places. Ask your antenna dealer for installation details.

2 DATA JACK [DATA]

Connect to a PC via an RS-232 cable (D-sub 9 pin) for DV*1 mode data communication in RS-232 format.

*1: The optional UT-118 is required.



3 PACKET JACKS [PACKET]

Connect a TNC (Terminal Node Controller), etc. for data communications. The receiver can support 9600 bps packet communication (AFSK).

4 USB CONNECTOR [USB]

Connects to a PC via a supplied USB cable. This connector is only used for control software operation.

CAUTION: NEVER insert any other object than a USB cable, such as a metallic object, otherwise Main unit may be damaged.

5 EXTERNAL SPEAKER JACK [EXT SP]

Connects an 8 Ω external speaker.
• Audio output power is more than 0.5 W.

6 CONTROLLER [CONTROLLER]

Connects to a controller via an extension cable. This connector is only used for IC-R1500 or R2500's controller operation.

• No connection is necessary when the control software is in use.

CAUTION: NEVER insert any other object than the controller cable, such as a metallic object, otherwise Main unit may be damaged.

7 POWER JACK [DC IN]

Accepts 12 V DC ±15% via the supplied DC power cable.

8 GROUND TERMINAL [GND]

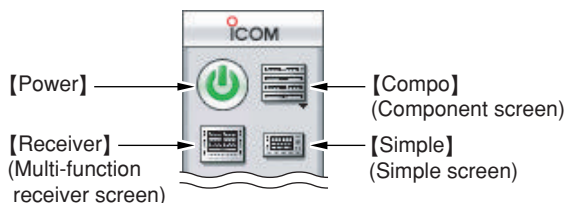
Connect this terminal to a ground.

5

BASIC RECEIVE FUNCTIONS

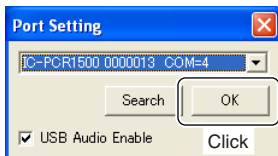
Starting the control software

- ① Before launching the program, please make sure the Main unit is powered ON.
 - The power indicator lights green.
- ② Launch the IC-PCR1500_2500 program. (p. 27)
- ③ Click the **[Power]** icon on the tool bar to connect the control software and Main unit.
- ④ Click the desired icon, **[Receiver]**, **[Compo]** or **[Simple]** on the tool bar to select the control screen that you want to use.



USB port confirmation

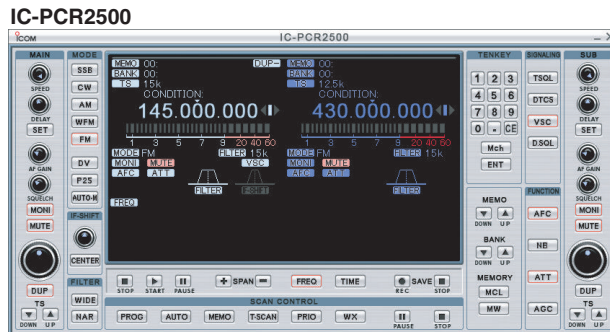
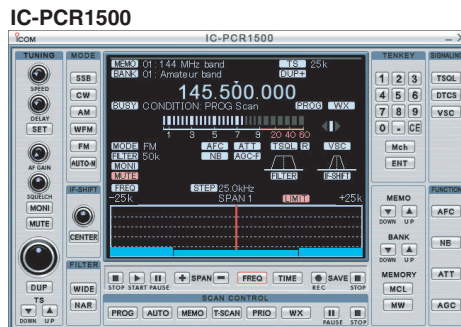
After the software connection is turned ON (step ③ as above), the following dialog box appears at the first time. Please confirm the connected PC's USB port number and serial number of your Main unit, then click [OK].



Changing the control screen

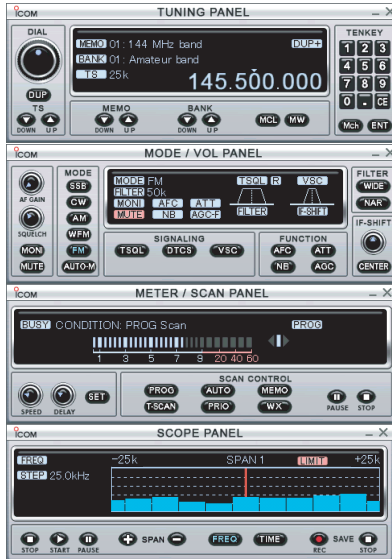
Click the desired control screen's icon on the tool bar.

- ➔ Click the **[Receiver]** icon for the Multi-function receiver screen.



➔ Click the [Compo] icon for the Component screen.

IC-PCR1500



IC-PCR2500



5

5 BASIC RECEIVE FUNCTIONS

➤ Click the [Simple] icon for the Simple screen.

IC-PCR1500

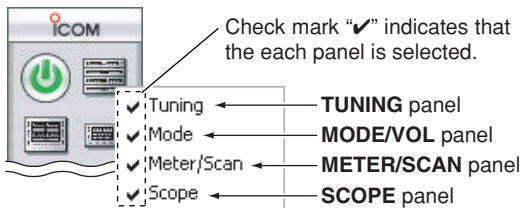


IC-PCR2500



◇ Component screen selection

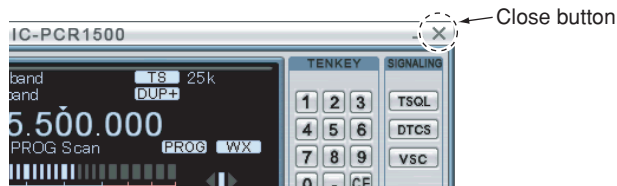
Click the [Compo] icon to display the Component screen, then click again to display the Component screen menu. Select the each panel for indication.



■ Closing the control screen

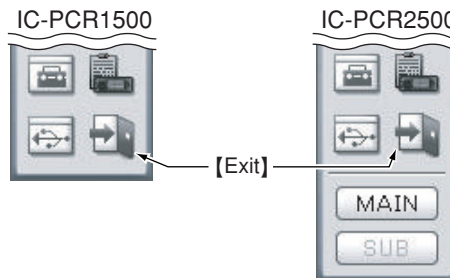
Click the close button ([X]) to close the control screen.

- Click the close button (X) in each [TUNING PANEL], [MODE/VOL PANEL], [METER/SCAN PANEL] and [SCOPE PANEL] when the Component screen is displayed.



■ Quitting the control software

Click the [Exit] icon on the tool bar to quit the control software.



■ Receiving

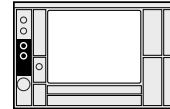
Make sure the hardware installation is finished (p. 1) and the Main unit is turned ON (p. 42).

- ① Click the **[Power]** icon on the tool bar to turn power ON.
- ② Click the desired icon, **[Receiver]**, **[Compo]** or **[Simple]** on the tool bar to select the displayed receiver screen type that you want to use.
- ③ Click **[AF GAIN]** (**[AF]**)* to set the audio level.
 - Right-click to increase the audio level.
 - Left-click to decrease the audio level.
 - When clicking and holding **[AF GAIN]** (**[AF]**)*, the audio level scrolls up or down.
 - Push the PC's **[↑]** (UP) or **[↓]** (DOWN) key also sets the audio level.
- ④ Click **[SQUELCH]** (**[SQL]**)* to set the squelch level.
 - Right-click to increase the squelch level (tight squelch).
 - Left-click to decrease the squelch level (loose squelch).
 - When clicking and holding **[SQUELCH]** (**[SQL]**)*, the squelch level scrolls up or down.
- ⑤ Set the receive frequency and mode. (pgs. 48, 54)
- ⑥ When receiving a signal on the set frequency, squelch opens and the receiver emits audio.
 - For *[Receiver]/[Compo] screen*
 - “BUSY” appears and the S-meter indicator shows the relative signal strength for the received signal.
 - For *[Simple] screen*
 - “BUSY” indicator lights green.

*Available only when **[Simple]** screen is displayed.

• [Receiver] screen

IC-PCR1500



IC-PCR2500



MAIN

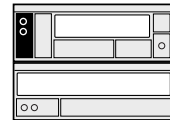
SUB

[AF GAIN]



• [Compo] screen

IC-PCR1500



MODE/VOL PANEL

IC-PCR2500



MAIN

SUB

[SQUELCH]

[AF GAIN]



[SQUELCH]

• [Simple] screen

IC-PCR1500



IC-PCR2500



MAIN

SUB

Lights →



[SQL]

[AF]

■ Setting a frequency

Depending on the situation, the receive frequency can be set using the following methods. Frequencies can be set from 0.010 to 3299.9999 MHz.

◇ Using the PC keyboard

- Enter the desired frequency using the 10-keypad on the PC keyboard, then push [Enter] to set the frequency.
 - When inputting from the keyboard, click anywhere in the receiver screen first, then begin inputting the frequency.
 - If you make a mistake while inputting a frequency, click [CE] on the receiver screen to clear the input and return to the previous frequency.
 - When you want to change the 100 kHz digit and below, push [•] first, then the 10-keypad and then [Enter].
 - When you want to set the 100 kHz digit and below to 0, input the MHz digits and then push [Enter].
 - When inputting a frequency outside of the allowed receive frequency range, the previously selected frequency is automatically selected after clicking [Enter].

◇ Using the tuning dial

- Click [DIAL] to set the receive frequency with the selected tuning step.
 - Right-click to increase the frequency.
 - Left-click to decrease the frequency.
 - When clicking and holding [DIAL], the frequency scrolls up or down.
 - The frequency changes according to the preset tuning steps. See pgs. 50 and 51 for selecting the tuning step.

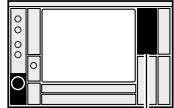
◇ Using the 10-keypad

Using [Receiver]/[Compo] screen

- Click the desired 10-keypad, then click [ENT] to set the frequency.
 - If you make a mistake while inputting a frequency, click [CE] to clear the input and return to the previous frequency.
 - When you want to change the 100 kHz digit and below, click [•] first, then the 10-keypad and then [ENT].
 - When you want to set the 100 kHz digit and below to 0, input the MHz digits and then click [ENT].
 - When inputting a frequency outside of the allowed receive frequency range, the previously selected frequency is automatically selected after clicking [ENT].

• [Receiver] screen

IC-PCR1500



10-KEYPAD

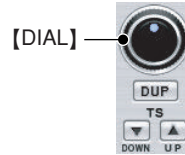
IC-PCR2500



MAIN

SUB

10-KEYPAD



10-KEYPAD



[•]

[CE]

[ENT]

Active band only

• [Compo] screen

IC-PCR1500



TUNING

10-KEYPAD

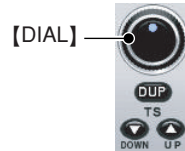
IC-PCR2500



MAIN

SUB

10-KEYPAD



10-KEYPAD



[•]

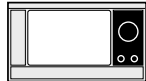
[CE]

[ENT]

Active band only

• [Simple] screen

IC-PCR1500



IC-PCR2500



MAIN

SUB



5 BASIC RECEIVE FUNCTIONS

■ Setting a tuning step

When using the tuning dial to change the frequency, or when a scan function is activated, the frequency changes in increments determined by the set tuning step. The tuning step is adjustable.

The following tuning step are available:

- 1 Hz • 10 Hz • 20 Hz • 50 Hz • 100 Hz
- 500Hz • 1 kHz • 2.5 kHz • 5 kHz • 6.25 kHz
- 8.33 kHz • 9 kHz • 10 kHz • 12.5 kHz • 15 kHz
- 20 kHz • 25 kHz • 30 kHz • 50 kHz • 100 kHz
- 125 kHz • 150 kHz • 200 kHz • 500 kHz • 1 MHz
- 10 MHz • USER*

*When "USER" is selected, the user programmed tuning step (default: 5 kHz) in "User TS" screen is selected. (p. 51)

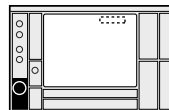
◇ Tuning step selection

Using [Receiver]/[Compo] screen

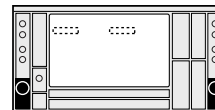
- Right-click [▲](TS) or [▼](TS) to display a tuning step list, then select the desired tuning step.
- Left-click [▲](TS) or [▼](TS) to set the desired tuning step in order.
 - The selected tuning step is displayed in the function display.

• [Receiver] screen

IC-PCR1500



IC-PCR2500



MAIN

SUB

1	8.33k	125k
10	9k	150k
20	10k	200k
50	12.5k	500k
100	15k	1M
500	• 20k	10M
1k	25k	USER
2.5k	30k	
5k	50k	
6.25k	100k	

Tuning step indication

TS 15k

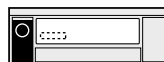
← Tuning step list



Tuning step buttons

• [Compo] screen

IC-PCR1500



TUNING

IC-PCR2500



MAIN

SUB

1	8.33k	125k
10	9k	150k
20	10k	200k
50	12.5k	500k
100	15k	1M
500	• 20k	10M
1k	25k	USER
2.5k	30k	
5k	50k	
6.25k	100k	

Tuning step indication

TS 15k

← Tuning step list



Tuning step buttons

Using [Simple] screen

Click **[TS]** to display a tuning step list, then select the desired tuning step.

• **[Simple] screen**

IC-PCR1500



IC-PCR2500



MAIN

SUB

1	8.33k	125k
10	9k	150k
20	10k	200k
50	12.5k	500k
100	15k	1M
500	• 20k	10M
1k	25k	USER
2.5k	30k	
5k	50k	
6.25k	100k	

Tuning step indication



Tuning step list

◇ **Setting the user tuning step**

Right-click **[▲](TS)** or **[▼](TS)** (or click **[TS]** indication)* to display a tuning step list, then select “USER TS Setting...”.

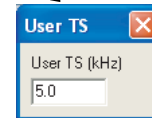
You can edit the desired tuning step from 0.001–9999.999 kHz (in 0.001 step) directly.

*Available only when [Simple] screen is displayed.

1	8.33k	125k
10	9k	150k
20	10k	200k
50	12.5k	500k
100	15k	1M
500	• 20k	10M
1k	25k	USER
2.5k	30k	
5k	50k	
6.25k	100k	

USER TS Setting...

Click



User tuning step setting screen

5 BASIC RECEIVE FUNCTIONS

■ Audio level setting

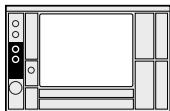
Using [Receiver]/[Compo] screen

Click [AF GAIN] to set the audio level.

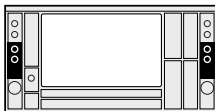
- Right-click to increase the audio level.
- Left-click to decrease the audio level.
- When clicking and holding [AF GAIN], the audio level scrolls up or down.
- Push the PC's [↑] (UP) or [↓] (DOWN) key also sets the audio level.

• [Receiver] screen

IC-PCR1500



IC-PCR2500



MAIN

SUB

[AF-GAIN]



• [Compo] screen

IC-PCR1500



MODE/VOL PANEL

IC-PCR2500



MAIN

SUB

[AF-GAIN]



Using [Simple] screen

Click [AF] to set the audio level.

- Right-click to increase the audio level.
- Left-click to decrease the audio level.
- When clicking and holding [AF], the audio level scrolls up or down.
- Push the PC's [↑] (UP) or [↓] (DOWN) key also sets the audio level.

• [Simple] screen

IC-PCR1500



IC-PCR2500



MAIN

SUB



[AF]

■ Squelch level setting

The squelch function sets a minimum receive signal level below which no audio is sent to the speaker. This prevents static or hiss from being heard through the speaker between transmissions.

A higher squelch setting removes weak signals. The remove level is displayed on the S-meter (S-meter squelch). The squelch does not open if a signal below the set S-meter level is received.

Using [Receiver]/[Compo] screen

Click **[SQUELCH]** to set the squelch level.

- Right-click to increase the squelch level (tight squelch).
- Left-click to decrease the squelch level (loose squelch).
- When clicking and holding **[SQUELCH]**, the squelch level scrolls up or down.
- The S-meter squelch level is displayed in the function display.

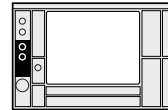
Using [Simple] screen

Click **[SQL]** to set the squelch level.

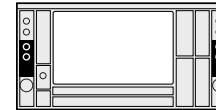
- Right-click to increase the squelch level (tight squelch).
- Left-click to decrease the squelch level (loose squelch).
- When clicking and holding **[SQL]**, the squelch level scrolls up or down.

• [Receiver] screen

IC-PCR1500



IC-PCR2500



MAIN

SUB



[SQUELCH]

• [Compo] screen

IC-PCR1500



MODE/VOL PANEL

IC-PCR2500



MAIN

SUB



[SQUELCH]

• [Simple] screen

IC-PCR1500



IC-PCR2500



MAIN

SUB



[SQL]

5 BASIC RECEIVE FUNCTIONS

Receive mode selection

Receive modes are determined by the physical properties of the radio signals. The receiver has 5 receive modes: USB LSB, CW, AM, WFM and FM modes. The mode selection is stored independently in each memory channel.

Additionally, IC-PCR2500 has a DV or P25 mode when the optional UT-118 or UT-122 units are installed, respectively. The IC-PCR2500's Sub band can select AM, FM and WFM mode only.

Typically, AM mode is used for the AM broadcast stations (0.495–1.620 MHz), air band (118–135.995 MHz), and short-wave broadcasts. WFM is used for FM broadcast stations (76–107.9 MHz). WFM mode can be selected on 1300 MHz band or below.

When using **[AUTO-M]** (automatic mode), a receive mode, IF filter passband width, tuning step, etc., are selected automatically after inputting a frequency. (p. 55)

Using [Receiver]/[Compo] screen

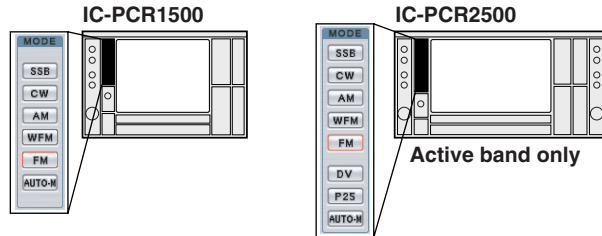
Click **[SSB]**, **[CW]**, **[AM]**, **[WFM]**, **[FM]** or **[AUTO-M]** to select the desired receive mode.

- Clicking **[SSB]** toggles between the USB and LSB mode.

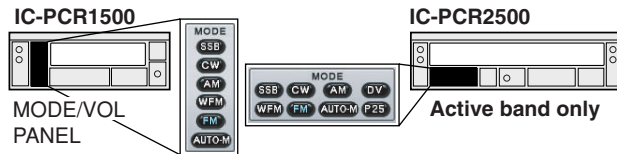
Using [Simple] screen

Click **[MODE]** indication to display a mode list, then select the desired receive mode.

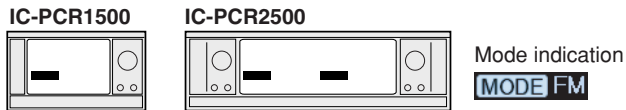
• [Receiver] screen



• [Compo] screen



• [Simple] screen

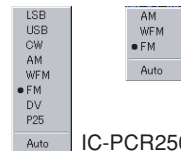


Receive mode list



IC-PCR1500

Receive mode list



IC-PCR2500

■ Automatic mode selection

An automatic mode function is available to automatically set the receive mode, IF filter passband width, tuning step, etc. after inputting a frequency.

Using [Receiver]/[Compo] screen

Each click of [AUTO-M] toggles the automatic mode function ON and OFF.

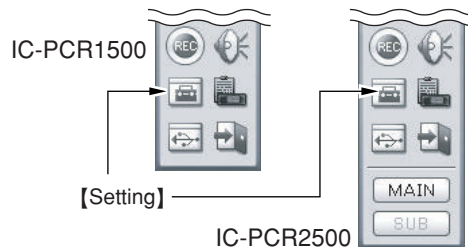
Using [Simple] screen

Click [MODE] indication to display a receive mode list, then select [AUTO] to turn the automatic mode function ON.

◇ Setting the automatic mode function

The default setting for the automatic mode function can be added to, changed or deleted. Up to 100 ranges can be memorized into the automatic mode function settings.

- 1 Click the [Setting] icon on the tool bar to call up the [Setting] screen if it is not displayed.



- 2 Click the [Auto Mode] tab to display the automatic mode list.



Edit the desired memory name (up to 32 characters)

Click [MENU], then point to [Auto Mode]. Select the desired item from the list.

Default: Return the Auto Mode setting list contents to default.

Import : Import the CSV file.

Export : Export the CSV file.

- 3 Click a cell in the [Freq Low] column and the desired line.
- 4 Input the lower frequency of the frequency range from the keyboard, then push [Enter].
 - When nothing is input into the [Freq Low] or [Freq High] column, settings for other columns cannot be made.
 - When inputting a new frequency, other data automatically appears in the other column.
 - To delete a frequency range setting, enter [0] or [Space] into the [Freq Low] column from the keyboard.
- 5 Input the higher frequency of the frequency range into the [Freq High] column, push the [Enter] key.
- 6 Set other data such as mode, tuning step, etc., if desired.
 - Double-click the desired cell, select the desired item and double-click the selection.
- 7 Click the close button ([X]) to close the setting screen.

5 BASIC RECEIVE FUNCTIONS

■ Monitor function

This function is used to listen to weak signals without disturbing the squelch setting or to open the squelch manually even when mute functions such as the tone squelch are in use.

Click **[MONI]** to monitor the operating frequency.

- "MONI" appears when [Receiver]/[Compo] screen is displayed.
- "MONI" button lights green when [Simple] screen is displayed.

■ Mute function

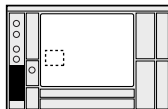
This function is used to mute the received audio signal.

Click **[MUTE]** to temporarily mute audio output.

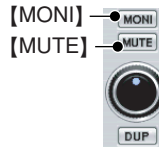
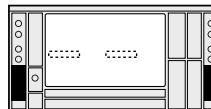
- "MUTE" appears when [Receiver]/[Compo] screen is displayed.
- "MUTE" button lights green when [Simple] screen is displayed.

• [Receiver] screen

IC-PCR1500



IC-PCR2500



• [Compo] screen

IC-PCR1500

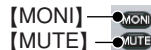


MODE/VOL PANEL

IC-PCR2500



MAIN SUB

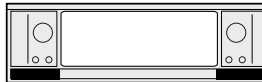


• [Simple] screen

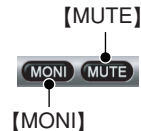
IC-PCR1500



IC-PCR2500



MAIN SUB



■ Duplex operation

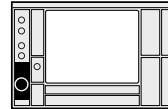
Duplex communication uses one frequency for transmit, and a different frequency for receive. Generally, duplex is used in communication through a repeater, some utility communications, etc.

During duplex operation, the transmit station frequency is shifted from the receive station frequency by the offset frequency. Repeater information (offset frequency and shift direction) can be programmed into memory channels. (p. 68)

- ① Set the receive frequency (repeater output frequency). (p. 48)
- ② Right click **[DUP]** to display the [DUP Offset] screen.
- ③ Set the desired offset frequency within 0.000000–1000.000000 MHz range, then click the close button ([X]) to close the setting screen.
- ④ Left click **[DUP]** to toggle the duplex direction from OFF (simplex), DUP– or DUP+.
 - “**[DUP–]**” or “**[DUP+]**” appears when the duplex direction is set.
- ⑤ Click **[MONI]** to monitor the transmit station frequency (repeater input frequency).
The displayed frequency shifts the offset frequency when monitor function is in use.

• [Receiver] screen

IC-PCR1500

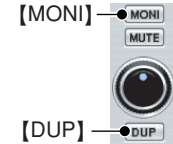


IC-PCR2500



MAIN

SUB



• [DUP Offset] screen



• [Compo] screen

IC-PCR1500



TUNING PANEL

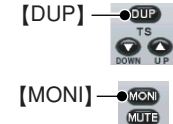
MODE/VOL PANEL

IC-PCR2500



MAIN

SUB



• [Simple] screen

IC-PCR1500

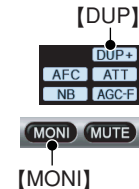


IC-PCR2500



MAIN

SUB



5 BASIC RECEIVE FUNCTIONS

■ IF filter selection

The receiver has 2 to 4 IF passband filter widths for each mode. Selectable passband widths are 3, 6, 15, 50 and 230 (depending on the selected mode).

• Selectable passband width for each mode.

- SSB mode : 2.8 kHz or 6 kHz
- CW mode : 2.8 kHz or 6 kHz
- AM mode : 2.8 kHz, 6 kHz, 15 kHz or 50 kHz
- WFM mode : 50 kHz or 230 kHz
- FM mode : 6 kHz, 15 kHz or 50 kHz

Using [Receiver]/[Compo] screen

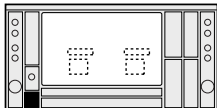
Click [WIDE] or [NAR] to select the desired IF filter widths.

• [Receiver] screen

IC-PCR1500



IC-PCR2500



Active band only

[WIDE]

[NAR]



Filter indicators

FILTER 50k



• [Compo] screen

IC-PCR1500



MODE/VOL PANEL

IC-PCR2500



Active band only

[WIDE]

[NAR]



Using [Simple] screen

Click [FILTER] to display a filter list, then select the desired filter widths.

• [Simple] screen

IC-PCR1500



IC-PCR2500



MAIN

SUB

Filter indication

FILTER 50k

Filter list

- 6k
- 15k
- 50k

■ AFC function

The AFC (Automatic Frequency Control) function tunes the displayed frequency automatically when an off-center frequency is received. It activates in FM mode and IF filter setting is 6 or 15 kHz only.

Click **[AFC]** to turn the AFC (Automatic Frequency Control) function ON or OFF.

- “AFC” appears when the AFC function is turned ON

■ Attenuator function

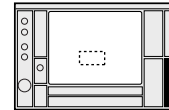
Strong signals (such as from broadcast stations, pocket beepers, nearby amateur radio stations, etc.) can cause distortion of receive signals. The attenuator reduces signal strength by about 20 dB and this function can be activated on 1300 MHz or below.

Click **[ATT]** to turn the ATT (Attenuator) function ON or OFF.

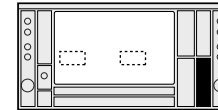
- “ATT” appears when the ATT function is turned ON.

• [Receiver] screen

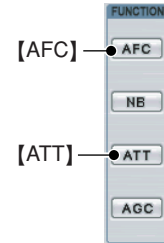
IC-PCR1500



IC-PCR2500



Active band only



• [Compo] screen

IC-PCR1500

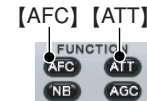


MODE/VOL PANEL

IC-PCR2500



Active band only



• [Simple] screen

IC-PCR1500

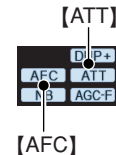


IC-PCR2500



MAIN

SUB



5 BASIC RECEIVE FUNCTIONS

■ NB function

The NB (Noise Blanker) function removes pulse-type noise when USB, LSB, CW or AM mode is selected. Note that the noise blanker is not effective against natural noise such as atmospheric static.

Click **[NB]** to turn the NB (Noise Blanker) function ON or OFF.
 • “NB” appears when the NB function is turned ON.

■ AGC function

The AGC (Automatic Gain Control) function controls receiver gain to produce a constant audio output level even when the received signal strength varies from fading, etc. A slow-response AGC function is selectable for SSB, CW or AM mode.

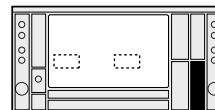
Click **[AGC]** (**[AGC-F]**)* to toggle the time constant of the AGC circuit between slow and fast.
 • “AGC-F” appears when fast is selected.
 *Available only when [Simple] screen is displayed.

• [Receiver] screen

IC-PCR1500

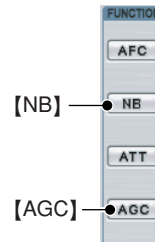


IC-PCR2500



Active band only

Indicators



• [Compo] screen

IC-PCR1500



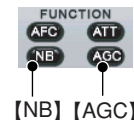
MODE/VOL PANEL

IC-PCR2500



Active band only

Indicators



• [Simple] screen

IC-PCR1500

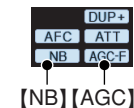


MAIN

IC-PCR2500



SUB



■ VSC function

The VSC (Voice Squelch Control) function opens the squelch only when receiving a modulated voice signal.

- Not modulated signal (contain no voice or music, etc. components) are muted.

Using [Receiver]/[Compo] screen

Click [VSC] to turn the VSC (Voice Squelch Control) function ON or OFF.

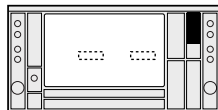
- “VSC” appears when the VSC function is turned ON.

• [Receiver] screen

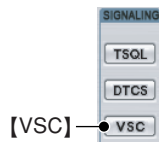
IC-PCR1500



IC-PCR2500



Active band only



[VSC]

Indication



• [Compo] screen

IC-PCR1500



MODE/VOL PANEL

IC-PCR2500



Active band only



[VSC]

■ IF shift function

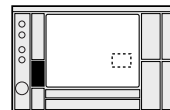
The IF shift function electronically changes the center of the IF (intermediate frequency) passband frequency to reject interference. It activates in SSB/CW modes only.

Using [Receiver]/[Compo] screen

- ① Adjust the [SHIFT] control for a minimum interference signal level.
 - The audio tone may be changed while the IF shift is in use.
- ② Click [CENTER] to set the shift control to its center position when there is no interference.

• [Receiver] screen

IC-PCR1500



MODE/VOL panel

IC-PCR2500



MAIN band only

[SHIFT] control



[CENTER]

Indication



• [Compo] screen

IC-PCR1500

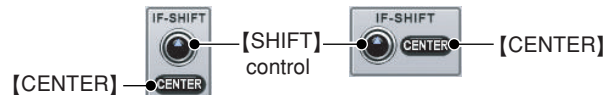


MODE/VOL panel

IC-PCR2500



MAIN band only



5 BASIC RECEIVE FUNCTIONS

■ Weather channel operation (USA and CANADA versions only)

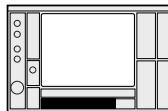
NOAA broadcast stations transmit weather alert tones before important weather announcements. When the weather alert function is turned ON, the selected weather channel is monitored each 5 sec. for the announcement. When the alert signal is detected, the “WX Alert” blinks and the WX channel is displayed, and sounds a beep tone until a change is made within the control screen, or the [WX] button is clicked. The previously selected weather channel is checked periodically during standby or while scanning.

- ① Right-click the [WX] button to call up the [WX Alert] screen.
- ② Select the desired weather channel in [WX Alert Channel].
 - Click [CHECK] to monitor the selected weather channel.
- ③ Click the close ([X]) button to close the [WX Alert] screen.
- ④ Click the [WX] button to turn the weather alert function ON.
- ⑤ When the alert is detected, a beep sounds and the indication will be displayed as at right.
- ⑥ Click the [WX] button to turn the weather alert function OFF.

NOTE: While receiving a signal (on a frequency other than the weather alert ON frequency), the receiving signal or audio will be interrupted momentarily every 5 sec. (approx.) in case the alert function is turned ON. This is caused by the WX alert function. To eliminate the interruptions, set the weather alert function to OFF.

• [Receiver] screen

IC-PCR1500



IC-PCR2500



Active band only



• [Compo] screen

IC-PCR1500



METER/SCAN
PANEL

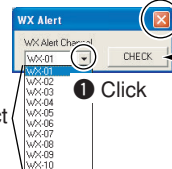
IC-PCR2500



MAIN SUB



• [WX Alert] screen



③ Click
Click to monitor the selected weather channel.

• [Simple] screen

IC-PCR1500



IC-PCR1500

IC-PCR2500



MAIN SUB



[WX]

[WX]

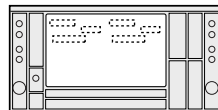
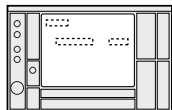
IC-PCR2500

[WX]

• [Receiver] screen

IC-PCR1500

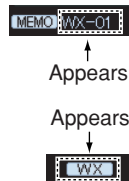
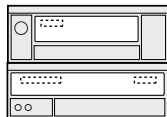
IC-PCR2500



• [Compo] screen

IC-PCR1500

IC-PCR2500



TUNING PANEL
METER/SCAN
PANEL

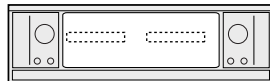
MAIN SUB



• [Simple] screen

IC-PCR1500

IC-PCR2500



■ Squelch delay setting

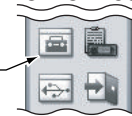
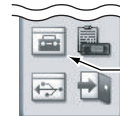
Select squelch delay from short and long to prevent repeated opening and closing of the squelch during reception of the same signal.

- Short : Short squelch delay.
- Long : Long squelch delay.

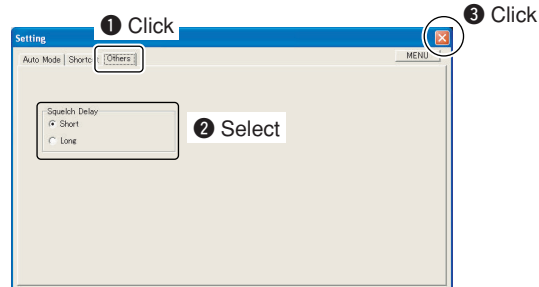
- ① Click the [Setting] icon on the tool bar to call up the [Setting] screen if it is not displayed.
- ② Click the [Others] tab to display the squelch delay setting.
- ③ Click the [Short] or [Long] radio button to set the squelch delay.
- ④ Click the close button ([X]) to close the [Setting] list screen.

IC-PCR1500

IC-PCR2500



[Setting]



5 BASIC RECEIVE FUNCTIONS

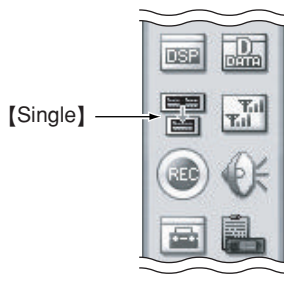
■ Single band/Dualwatch operation (IC-PCR2500 only)

Dualwatch operation monitors two frequencies simultaneously. The IC-PCR2500 has two independent receiver circuits: Main band, and Sub band (available frequencies, operating mode and functions are different depending on bands).

Single band operation is useful when only one frequency is being watched. The Sub band can be inhibited. The single band operation's control screens are similar as the IC-PCR1500.

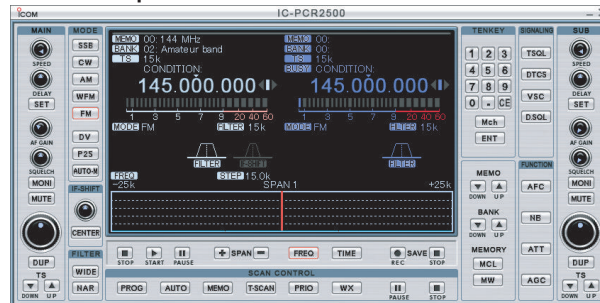
Click the **[Single]** icon on the tool bar to toggle between the single band operation and the dualwatch operation.

• Even when click the **[Single]** icon during Sub band operation, the control screen switches to the Main band frequency automatically.

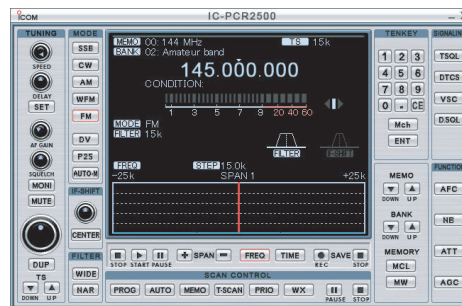


When the dualwatch operation is in use, IC-PCR2500 must be connected to two antennas. ([ANT1] and [ANT2])

• [Receiver] screen Dualwatch operation



Single band operation



• [Compo] screen
Dualwatch operation



Single band operation



• [Simple] screen
Dualwatch operation



Single band operation



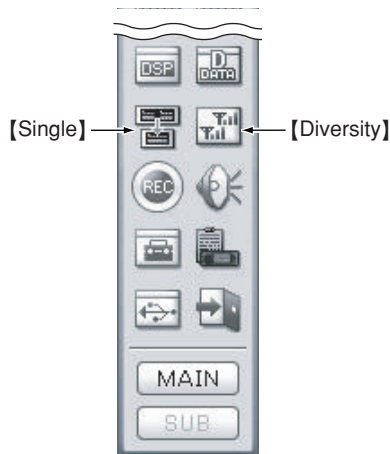
5 BASIC RECEIVE FUNCTIONS

■ Diversity operation (IC-PCR2500 only)

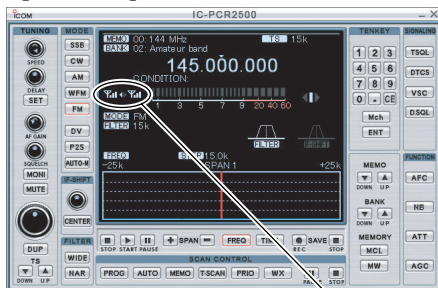
The diversity receiving compares the receiving signal strength from two different antennas, ANT1 and ANT2, and automatically selects the strongest signal. This feature is useful when you are listening in a moving vehicle or the transmitting station itself is moving. Diversity receiving is available from 50 MHz to 1300 MHz on FM, P25 and DV mode only.

- With the squelch open in FM mode while receiving a weak signal, diversity receiving does not work properly.
- AGC is disabled during diversity receiving.
- Two antennas must be connected to [ANT1] and [ANT2] during diversity operation. Diversity operation requires two antennas of the same performance in suitable places. Ask your antenna dealer for installation details.

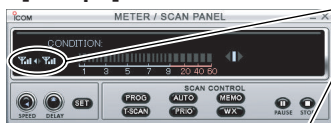
- ① Click the **[Single]** icon on the tool bar to select single band operation.
 - Even when click the **[Single]** icon during Sub band operation, the control screen switches to the Main band frequency automatically.
- ② Click the **[Diversity]** icon on the tool bar to turn the diversity function ON and OFF.



• [Receiver] screen



• [Compo] screen



Diversity indicator

While [ANT1] is selected;



While [ANT2] is selected;



• [Simple] screen



■ Main/Sub band selection

(IC-PCR2500 only)

Some functions can be set to active band only depending on the control screen. Then you must select the desired band, Main band or sub band, to active band.

- Click the **[MAIN]** (or **[SUB]**) icon on the tool bar to toggle the active band as Main band (or Sub band).



[MAIN]

[SUB]

- Or click the display indication of Main band or Sub band that you want to select the active band.

■ General

The receiver has 2600 memory channels for storage of often-used frequencies. There are total of 26 memory banks for usage by group, etc., and up to 100 channels can be assigned to a bank.

◇ Memory channel contents

The following information can be programmed into memory channels:

- Memory channel name (p. 73)
- Sub name (p. 73)
- Operating frequency (p. 48)
- Duplex direction (p. 57)
- Offset frequency (p. 57)
- Receive mode (p. 54)
- IF filter selection (p. 58)
- Attenuator ON/OFF (p. 59)
- Tuning step (p. 50)
- Select memory scan setting (p. 88)
- Memory skip scan setting (p. 88)
- Squelch control system ON/OFF and its frequency or code (p. 94, 120, 122)
- Remark (memory channel comment) (p. 73)

■ Memory channel selection

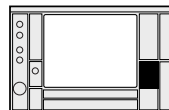
◇ Selecting with the control screen

• Using [▲]/[▼] buttons

- ① Click [▲](BANK) or [▼](BANK) to select the desired memory bank.
- ② Click [▲](MEMO) or [▼](MEMO) to select the desired memory channel.

• [Receiver] screen

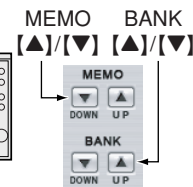
IC-PCR1500



IC-PCR2500



Active band only



• [Compo] screen

IC-PCR1500

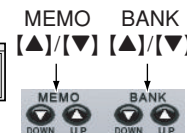


TUNING PANEL

IC-PCR2500



MAIN SUB



• [Simple] screen

IC-PCR1500

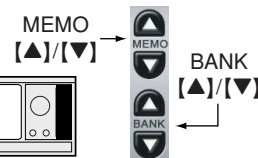


MAIN

IC-PCR2500



SUB



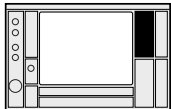
• **Direct channel number input on the [Receiver]/[Compo] screen**

Use the 10-keypad to input the desired memory channel number, then click [Mch] to select the memory channel.

- If a mistake is made when inputting a memory channel, click [CE] to clear the input and return to the previous frequency indication.

• **[Receiver] screen**

IC-PCR1500



IC-PCR2500



Active band only

10-KEYPAD



[Mch] [CE]

• **[Compo] screen**

IC-PCR1500



TUNING

IC-PCR2500



Active band only

10-KEYPAD



[Mch] [CE]

◇ **Selecting with the memory channel screen**

- ① Click the [Memory Edit] icon on the tool bar to call up the [Memory Channel Editor] screen if it is not displayed.
- ② Click [▲](BANK) or [▼](BANK) to select a memory bank.
- ③ Select the desired memory channel.
- ④ Click [RX Entry], or right-click a cell then click [RX Entry] in the edit menu.

• The selected channel data is displayed on the receiver screen.

① Select a memory bank. ③ Click

② Select a memory channel.

CH	Name	Sub Name	Frequency	DUPLEX	Offset
1	14.4 MHz		145 500000		
3					
4					
5					
6					

6 MEMORY CHANNELS

Memory channel programming

100 memory channels can be assigned to a memory bank. There are 26 memory banks. Any of the following information can be stored.

- Bank name, memory name, frequency, duplex direction, offset frequency, mode, filter, attenuator, tuning step, select memory scan, skip channel, squelch control setting and remark.

◇ Programming from the receiver screen

• Using [Receiver]/[Compo] screen

- ① Click **[▲]**(BANK) or **[▼]**(BANK) to select a memory bank to be programmed.
- ② Click **[▲]**(MEMO) or **[▼]**(MEMO), or use the 10-keypad to input the desired memory channel number, then click **[Mch]** to select a memory channel to be programmed.
- ③ Set a frequency, mode, etc. that you want to memorize.
- ④ Click **[MW]** for 1 sec. to program the setting information into the selected memory channel.

• [Receiver] screen

IC-PCR1500



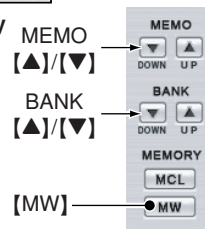
IC-PCR2500



10-KEYPAD



Active band only



• [Compo] screen

IC-PCR1500



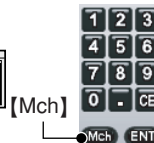
TUNING

IC-PCR2500

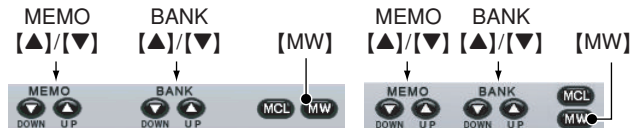


MAIN SUB

10-KEYPAD



Active band only



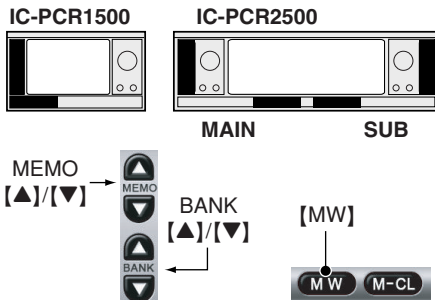
IC-PCR1500

IC-PCR2500

• Using [Simple] screen

- ① Click [▲](BANK) or [▼](BANK) to select a memory bank to be programmed.
- ② Click [▲](MEMO) or [▼](MEMO) to select a pre-programmed memory channel to be programmed.
NOTE: During [Simple] screen, you cannot set or change a receive frequency on a blank channel.
- ③ Set a frequency, mode, etc. that you want to memorize.
- ④ Click [MW] for 1 sec. to program the setting information into the selected memory channel.

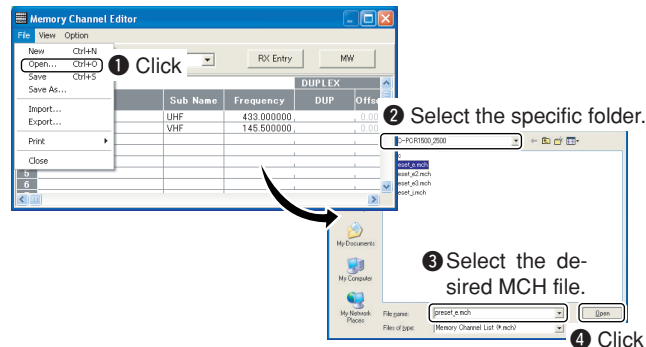
• [Simple] screen



◇ Initializing the memory channel contents

The memory channel contents can be initialized using the “preset_e.mch” file (which is saved in mch format).

- ① Click the [Memory Edit] icon on the tool bar to call up the [Memory Channel Editor] screen if it is not displayed.
- ② Click [Open...] in the [File] menu, then select “preset_e.mch” that is contained in the “IC-PCR1500_2500” folder to load.
 - If the “preset_e.mch” file is overwritten or lose, copy it from the supplied CD into the “IC-PCR1500_2500” folder.
 - Right-click the copied file and select [Properties]. Then click [Read-only] check box (no check mark) to cancel the read protection.



6 MEMORY CHANNELS

■ Editing the memory list

- 1 Click the [Memory Edit] icon on the tool bar to call up the [Memory Channel Editor] screen if it is not displayed.
- 2 Click [▲](BANK) or [▼](BANK) to select the desired memory bank.

- 3 Click the [Frequency] cell of the desired memory channel, then input the receive frequency from the keyboard. After inputting, push [Enter].

▨ Program the receive frequency first, otherwise no setting can be made except for the name.

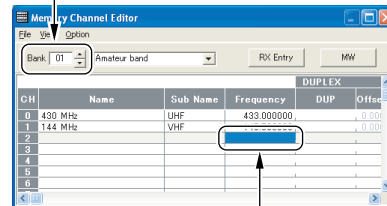
- 4 Double-click the desired cell directory, or right-click the cell then click [Edit... Enter] from the displayed menu to set other items such as duplex direction, mode, tuning step, etc., if desired.

• Click the desired setting item in the pull down menu to select or change the channel setting, or edit it directly depends on the item.

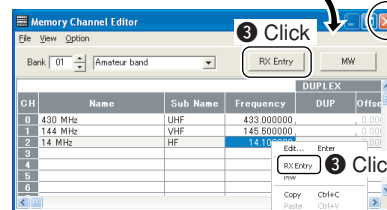
- 5 Click the [RX Entry] to write the edited memory contents to the receiver.
- 6 Click the close button ([X]) to close the [Memory Channel Editor] screen.



- 1 Select a memory bank.



- 2 Input the receive frequency, then set other items.

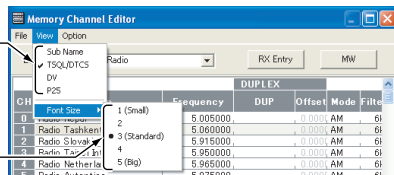


Edit menu

◇ About the [View] menu

The indicated character size, sub name, TSQL/DTCs setting, DV setting, P25 setting indication can be set in [View] menu.

Click to turn the Sub Name, TSQL/DTCs, DV and P25 indication ON and OFF.



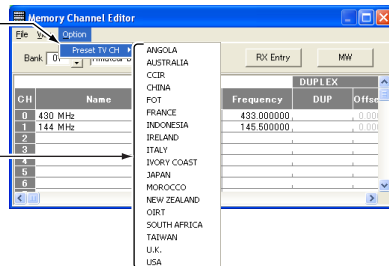
Click to select the indicated character size.

DV or P25 setting indication does not appear for IC-PCR1500, or for IC-PCR2500 that is depending on version or option installation.

◇ About the [Option] menu

Click [Preset TV CH] in [Option] menu to display the preset TV channel group. Then select the desired channel group. All available TV frequencies and channel numbers in the selected group are listed in the memory channel screen automatically.

Click to display the preset TV channel group.



Click to select the desired channel group.

◇ Editing the memory channel name

- ① Click the [Memory Edit] icon on the tool bar to call up the [Memory Channel Editor] screen if it is not displayed.
- ② Click [▲](BANK) or [▼](BANK) to select the desired bank.
- ③ Select the desired channel, then double-click the [Name] or [Sub Name] cell.
 - A cursor starts blinking.
 - [Name] (up to 64 characters) is used for the memory name of the control software.
 - [Sub Name] (up to 6 characters) is used for the memory name of the IC-R1500 or IC-R2500' controller.
- ④ Edit the desired memory name from the PC keyboard, then push [Enter] to input.

◇ Editing the channel remark (channel comment)

- ① Click the [Memory Edit] icon on the tool bar to call up the [Memory Channel Editor] screen if it is not displayed.
- ② Click [▲](BANK) or [▼](BANK) to select the desired memory bank.
- ③ Select the desired channel, then double-click [Remark] cell.
 - A cursor starts blinking.
- ④ Edit the channel comment (up to 64 characters) from the PC keyboard, then push [Enter] to input.

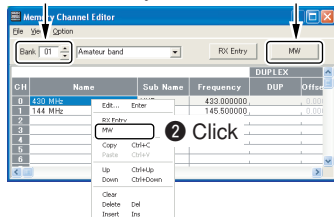
6 MEMORY CHANNELS

◇ Calling up the memory channel data from the control screen

- ① Click the **[Memory Edit]** icon on the tool bar to call up the **[Memory Channel Editor]** screen if it is not displayed.
- ② Click **[▲](BANK)** or **[▼](BANK)** to select the desired memory bank.
- ③ Select the desired memory channel to call up the operating channel data on the control screen.
- ④ Click **[MW]**, or right-click a cell then click **[MW]** in the edit menu.
 - The operating channel data is called up to the **[Memory Channel Editor]** screen.



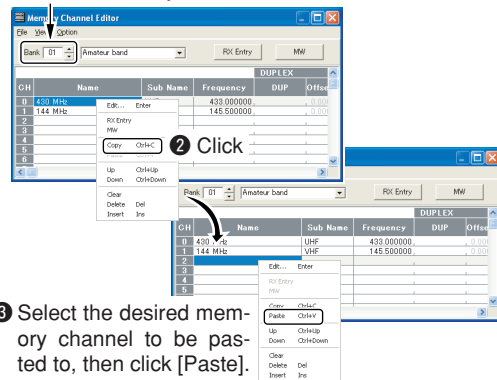
- ① Select a memory bank.
- ② Click



◇ Copying a memory contents

- ① Click the **[Memory Edit]** icon on the tool bar to call up the **[Memory Channel Editor]** screen if it is not displayed.
- ② Click **[▲](BANK)** or **[▼](BANK)** to select the desired memory bank.
- ③ Right click any cell of the desired memory channel to be copied, then select **[Copy (Ctrl+C)]** from the displayed menu.
 - After selecting a cell of the desired memory channel, push **[C]** key while pushing and holding the **[Ctrl]** key— these key actions are the same as the mouse operation above.
- ④ Right click any cell of the desired memory channel to be pasted to, then select **[Paste (Ctrl+V)]**.
 - After selecting a cell of the desired memory channel, push the **[V]** key while pushing and holding the **[Ctrl]** key— these key actions are the same as the mouse operation above.

- ① Select a memory bank.



- ③ Select the desired memory channel to be pasted to, then click **[Paste]**.

◇ Memory channel insert/delete

Insert:

New blank channels can be inserted into the channel list.
Channels below the cursor are shifted down automatically.

Delete:

Unnecessary channels can be deleted from the list.
Channels below the cursor are shifted up automatically.

- ① Click the **[Memory Edit]** icon on the tool bar to call up the [Memory Channel Editor] screen if it is not displayed.
- ② Click **[▲](BANK)** or **[▼](BANK)** to select a memory bank.
- ③ Right-click a cell on the desired channel that you want to insert/delete, then click [Insert] or [Delete] from the list to insert/delete the channel at the selected position.

◇ Memory channel up/down

Up:

The selected channel contents moves up one step.

Down:

The selected channel contents moves down one step.

- ① Click the **[Memory Edit]** icon on the tool bar to call up the [Memory Channel Editor] screen if it is not displayed.
- ② Click **[▲](BANK)** or **[▼](BANK)** to select a memory bank.
- ③ Right-click a cell on the desired channel that you want to up/down, then click [Up] or [Down] from the list to move up/down the channel to one step.

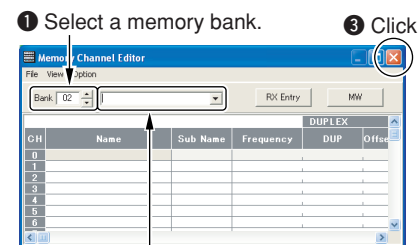
◇ Bank name programming

Each memory bank can be programmed with an alphanumeric bank name for easy recognition and can be indicated independently. Names can be set with a maximum of 64 characters.

- ① Click the **[Memory Edit]** icon on the tool bar to call up the [Memory Channel Editor] screen if it is not displayed.
- ② Click **[▲](BANK)** or **[▼](BANK)** to select a memory bank.
- ③ Click the bank name dialog box.
 - A cursor starts blinking.
- ④ Program the desired bank name (up to 64 characters) from the PC keyboard, then push [Enter].
- ⑤ After programming, click the close button (**[X]**) to close the [Memory Channel Editor] screen.



[Memory Edit]



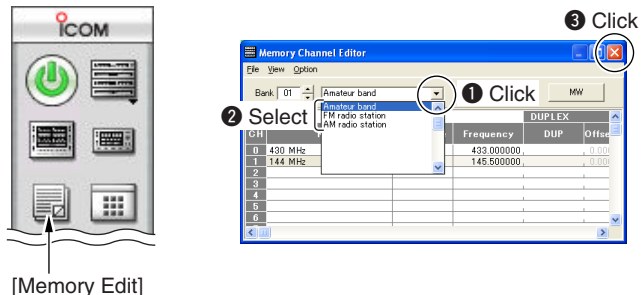
- ② Program a bank name (up to 64 characters.)

6 MEMORY CHANNELS

◇ Selecting a bank with the programmed name

Each memory bank can be selected with the programmed name from a bank name dialog box.

- 1 Click the [Memory Edit] icon on the tool bar to call up the [Memory Channel Editor] screen if it is not displayed.
- 2 Click [▼] to display a memory bank name list as below.
- 3 Click the desired bank name to select the bank.
 - The [Memory Channel Editor] screen contents changes to the selected bank's.
- 4 After selection, click close button ([X]) to close the memory channel list screen.



■ Memory channel clearing

◇ Clearing from the receiver screen

- 1 Click [▲](BANK) or [▼](BANK) to select the memory bank, including the unneeded memory channel.
- 2 Click [▲](MEMO) or [▼](MEMO) to select the unneeded memory channel to be cleared.
- 3 Click [MCL] ([M-CL])* for 1 sec. to clear the memory channel contents.

*Available only when [Simple] screen is displayed.

• [Receiver] screen

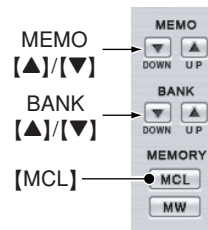
IC-PCR1500



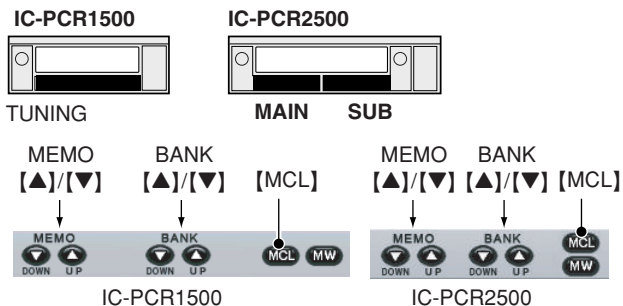
IC-PCR2500



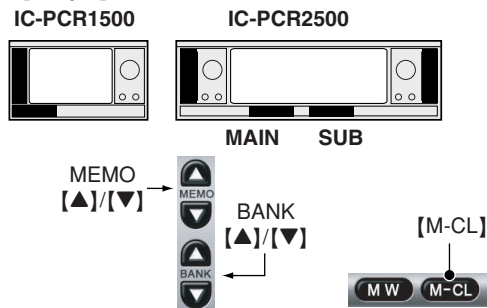
Active band only



• [Compo] screen



• [Simple] screen

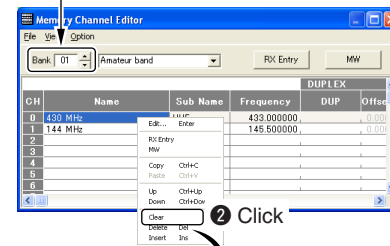


◇ Clearing from the memory list

- ① Click the [Memory Edit] icon on the tool bar to call up the [Memory Channel Editor] screen if it is not displayed.
- ② Click [▲] (BANK) or [▼] (BANK) to select a memory bank.
- ③ Right click the cell of the unneeded memory channel to be cleared, then click [Clear] from the displayed menu.
- ④ Click [OK] in the displayed dialog box to clear the selected memory channel contents.



① Select a memory bank.



② Click



③ Click

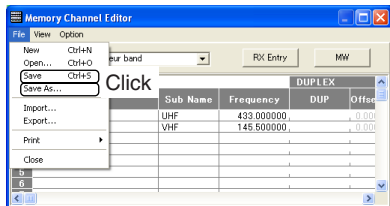
6 MEMORY CHANNELS

■ Saving memory channel data

The memory channels can be stored as a PC file.

Click [Save] or [Save As...] in the [File] menu to back up memory channel data.

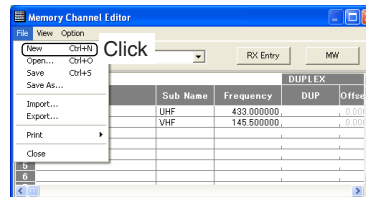
- Save : Saves current project as a PC file. Overwritten if previously saved file of the same name exist.
- Save As... : Saves with a different file name.



■ Creating new memory channel data file

The new memory channel data file can be created.

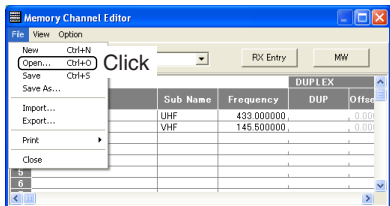
Click [New] in the [File] menu to make a new memory channel data file.



■ Opening memory channel data

The stored memory channel data in the PC can be loaded.

Click [Open...] in the [File] menu, then select the desired memory channel data file that is saved previously.

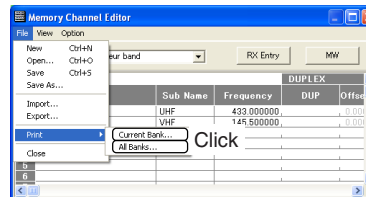


■ Printing a memory channel

A memory channel screen can be printed out.

Click [Print] in the [File] menu to print the displayed memory channel screen.

- Current Bank... : Print a currently displayed bank settings.
- All Banks... : Print all banks settings.

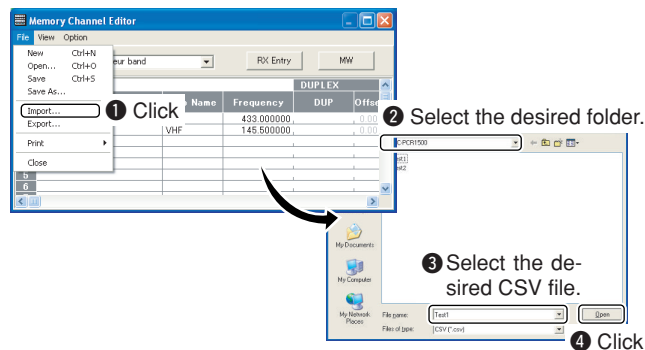


■ Importing a CSV file

The CSV (Comma Separated Values) format file (which is saved in CSV format) can be imported and overwrite to the selected bank contents.

NOTE: Save the current contents as a PC file (p. 68) before importing a CSV file. Once the imported CSV file is overwritten, previously set contents are no longer available.

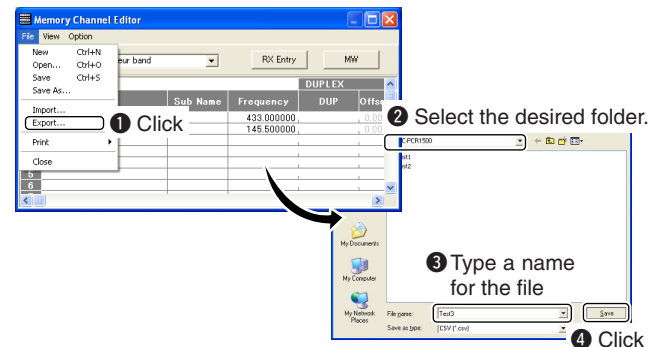
- ① Click [Import...] in the [File] menu.
- ② Select the desired drive that the CSV file is saved in, then click [Open].
- ③ Select the desired folder in which the CSV file is saved, then click [Open].
- ④ Select the desired CSV file that you want to import, then click [Open].
 - The selected CSV file is imported.



■ Exporting a CSV file

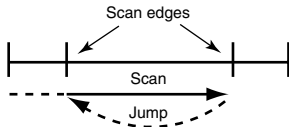
The selected bank contents are exportable in CSV (Comma Separated Values) file format.

- ① Click [Export...] in the [File] menu.
- ② Select the desired drive to which the CSV file is saved, then click [Open].
- ③ Select the desired folder in which the CSV file is saved, then click [Open].
- ④ Type a name for the file in the [File name] box, then push [Save] to save the selected bank contents in CSV format.



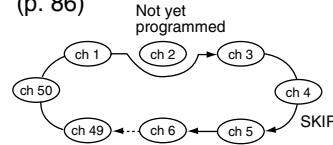
Scan types

PROGRAMMED SCAN (p. 81)



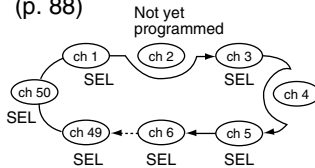
Repeatedly scans between two user-programmed frequencies. Used for checking for frequencies within a specified range such as repeater output frequencies, etc.

MEMORY SCAN (p. 86)



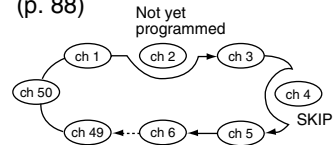
Repeatedly scans memory channels within a memory bank (0 – 25).

SELECT MEMORY SCAN (p. 88)



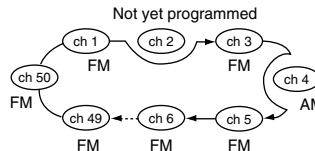
Repeatedly scans only select memory channels within a memory bank. This function can be turned ON/OFF in the [Memory Scan] screen. Select channels can be set in the memory list screen.

MEMORY SKIP SCAN (p. 88)



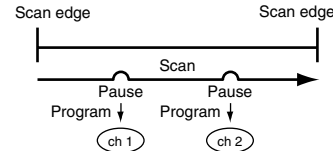
Skips unwanted memory channels that inconveniently stop scanning. This function can be turned ON/OFF in the [Memory Scan] screen. Skip channels can be set in the memory list screen.

MODE SELECT MEMORY SCAN (p. 88)



Repeatedly scans only selected mode channels within a memory bank. This function can be set in the [Memory Scan] screen.

AUTO MEMORY WRITE SCAN (p. 84)



The frequencies that the programmed scan stops on are automatically programmed into a selected memory bank.

■ Programmed scan

Programmed scan automatically searches for signals within a specified frequency range.

For programmed scan, scan edges must be programmed in advance.

◇ Programming scan edge channels

Set the scan edge channel name, frequency range and ATT in advance. Up to 50 settings can be programmed.

- ① Right-click the [PROG] button to call up the [Program Scan] setting screen if it is not displayed.
- ② Click the [Program Scan] tab to show the program list.
- ③ Input the start frequency into the [Freq Low] cell from the keyboard, then push [Enter].
 - Set other data (e.g. name, end frequency into [Freq High] or attenuator) if desired.

Program the start frequency first, otherwise no setting can be done except for the name.

- ④ Enter the desired scan edge channel number, then click the close (X) button to close the setting screen.

◇ Edit menu details

Editing the memory list with the edit menu is the same as the memory channels. See the following pages for details.

- Copying a memory contents (p. 74)
- Memory channel insert/delete (p. 75)
- Memory channel up/down (p. 75)
- Clearing from the memory list (p. 77)

• [Receiver] screen

IC-PCR1500



IC-PCR2500



Active band only



• [Compo] screen

IC-PCR1500



METER/SCAN

IC-PCR2500

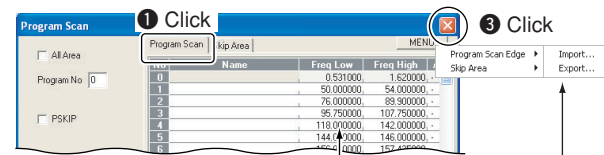


MAIN SUB

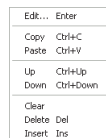
[PROG]



• [Program Scan] screen



- ② Input the start frequency first, then set other data.



Edit menu

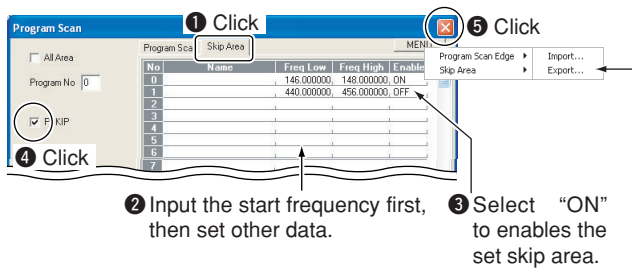
Click [MENU], and point to [Program Scan Edge]. Then, select the desired item from the list.
Import : Import the CSV file.
Export : Export the CSV file.

7 SCAN OPERATION (Multi-function receiver/Component screens only)

◇ Skip area setting

The skip area setting is available for skipping unwanted frequencies that inconveniently stop scanning.

- ① Right-click the [PROG] button to call up the [Program Scan] screen if it is not displayed.
- ② Click the [Skip Area] tab to show the skip area list.
- ③ Input the skip start frequency into the [Freq Low] cell from the keyboard, then push [Enter].
 - Set other data (e.g. name or skip end frequency into [Freq High]) if desired.
- ▨ Program the start frequency first, otherwise no setting can be done except for the name.
- ④ Select "ON" in [Enable] to enable the set skip area.
- ⑤ Click [PSKIP] to turn the skip area function ON, then click the close ([X]) button to close the setting screen.

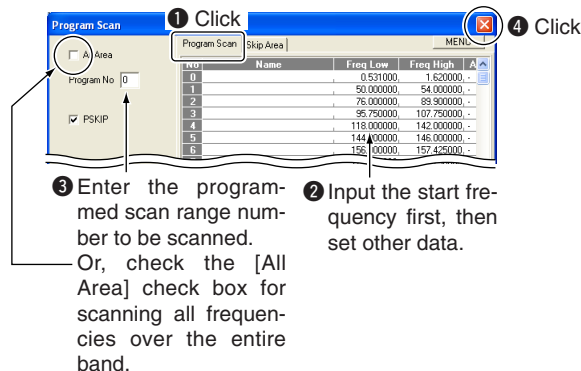


Click [MENU], and point to [Skip Area]. Then, select the desired item from the list.

Import : Import the CSV file.
Export : Export the CSV file.

◇ Starting a programmed scan

- ① Make sure the squelch is set to the threshold point (closed condition).
- ② Right-click the [PROG] button to call up the [Program Scan] setting screen if it is not displayed.
- ③ Click the [Program Scan] tab to show the program list.
- ④ Enter the programmed scan range number to be scanned in [Program No], then click the close ([X]) button to close the setting screen.



- ③ Enter the programmed scan range number to be scanned.
 - ② Input the start frequency first, then set other data.
- Or, check the [All Area] check box for scanning all frequencies over the entire band.

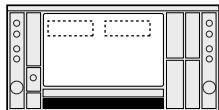
- ⑤ Click the **[PROG]** button to start programmed scan.
 - “PROG Scan” blinks and **[PROG]** appears while scanning.
- ⑥ To stop the scan, click **[STOP]** or **[PROG]**.
 - When the frequency is changed after cancelling a scan and a new scan is activated, scanning starts from the starting frequency of the specified frequency range. When the frequency is not changed, scan starts from the previously stopped frequency.

• **[Receiver] screen**

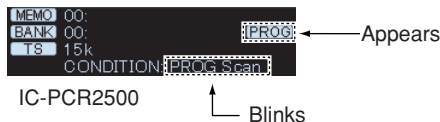
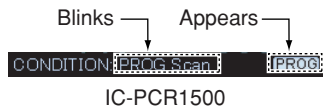
IC-PCR1500



IC-PCR2500



Active band only



• **[Compo] screen**

IC-PCR1500



METER/SCAN

IC-PCR2500



MAIN SUB



7 SCAN OPERATION (Multi-function receiver/Component screens only)

■ Auto memory write scan

The auto memory write scan does the same as the programmed scan and then writes paused signal frequencies into memory channels of a specified memory bank. Scan edges must be programmed in advance. (p. 81)

◇ Starting an auto memory write scan

- ① Make sure the squelch is set to the threshold point (closed condition).
- ② Right-click [AUTO] to call up the [AutoMW Scan] setting screen if it is not displayed.

• [Receiver] screen

IC-PCR1500



IC-PCR2500



[AUTO] Active band only

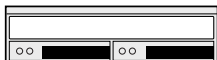


• [Compo] screen

IC-PCR1500



IC-PCR2500



METER/SCAN

[AUTO]

MAIN SUB

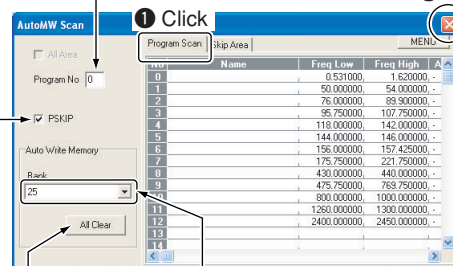


- ③ Enter the programmed scan range number to be scanned in [Program No].
- ④ Select a memory bank to be written, then click the close ([X]) button to close the setting screen.
 - To clear the selected memory bank contents, click [All Clear].

- ② Enter the programmed scan range number to be scanned.

- ④ Click

Click to turn the skip area function ON.



Click to clear the selected memory bank contents.

- ③ Select a memory bank to be written.

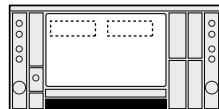
- ⑤ Click **[AUTO]** to start auto memory write scan.
 - “AUTO Scan” blinks and **[AUTO]** appears while scanning.
- ⑥ To stop the scan, click **[STOP]** or **[AUTO]**.

• [Receiver] screen

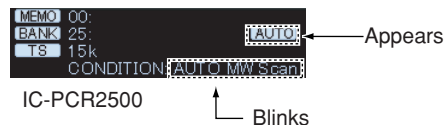
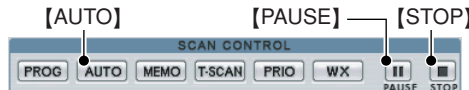
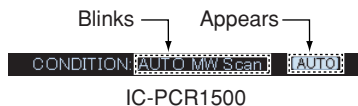
IC-PCR1500



IC-PCR2500



Active band only



• [Compo] screen

IC-PCR1500



METER/SCAN

IC-PCR2500



MAIN SUB



7 SCAN OPERATION (Multi-function receiver/Component screens only)

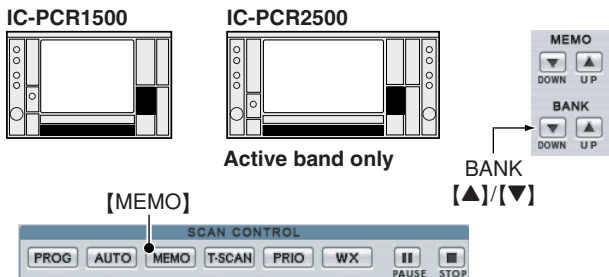
Memory/bank scan

This function searches all memory channels in a selected memory bank.

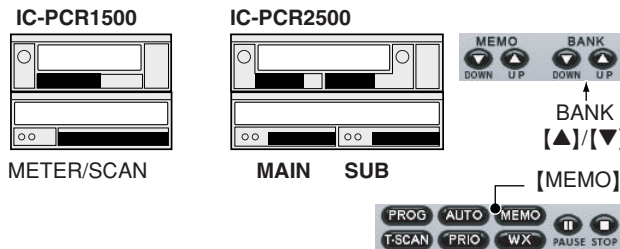
Starting a memory/bank scan

- ① Make sure the squelch is set to the threshold point (closed condition).
- ② Click **[▲]**(BANK) or **[▼]**(BANK) to select the desired memory bank.
- ③ Right-click the **[MEMO]** button to call up the [Memory Scan] setting screen if it is not displayed.

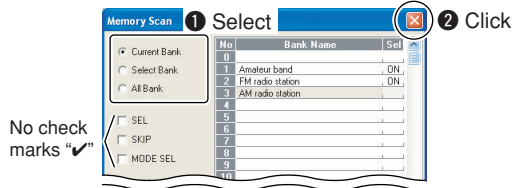
[Receiver] screen



[Compo] screen



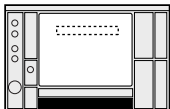
- ④ Select the bank scan condition from 'Current Bank', 'Select Bank' or 'All Bank.'
 - (a) 'Current Bank'
Scans memory channels within the current bank.
 - (b) 'Select Bank'
Scans memory channels within the selected bank ("Sel" setting is turned ON).
 - (c) 'All Bank'
Scans memory channels within all banks.
- ⑤ Make sure the check boxes are not checked (✓), then click the close (**[X]**) button to close the setting screen.



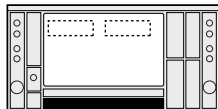
- ⑥ Click the **[MEMO]** button to start memory scan.
 - “MEMO Scan” blinks and [MEMO] appears while scanning.
- ⑦ To stop the scan, click **[STOP]** or **[MEMO]**.

• **[Receiver] screen**

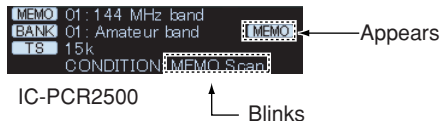
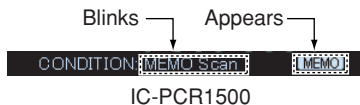
IC-PCR1500



IC-PCR2500



Active band only



• **[Compo] screen**

IC-PCR1500



METER/SCAN

IC-PCR2500



MAIN SUB



7 SCAN OPERATION (Multi-function receiver/Component screens only)

■ Versatile memory scan

You can set the memory scan conditions using the [Memory Scan] setting screen.

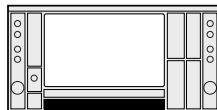
- ① Right-click the [MEMO] button to call up the Memory Scan setting screen if it is not displayed.

• [Receiver] screen

IC-PCR1500



IC-PCR2500



Active band only

[MEMO]



• [Compo] screen

IC-PCR1500



METER/SCAN

IC-PCR2500



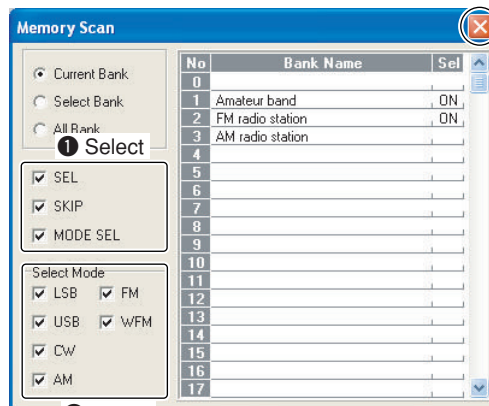
MAIN SUB

[MEMO]



- ② Check the desired check boxes, then click the close ([X]) button to close the setting screen.

- When selecting the [SEL] box (select memory scan), repeatedly scans memory channels these “SEL” settings are turned ON in [Memory Channel Editor] screen.
- When selecting the [SKIP] box (memory skip scan), repeatedly scans memory channels except “SKIP” setting is turned ON in [Memory Channel Editor] screen.
- When selecting the [MODE SEL] box (mode select memory scan), repeatedly scans all memory channels with the selected operating mode (in [Select Mode] as below).



- ③ Click

- ② Select

- ③ Click the **[MEMO]** button to start the desired memory scan.
 - “MEMO Scan” blinks and [MEMO] appears while scanning.
- ④ To stop the scan, click **[STOP]** or **[MEMO]**.

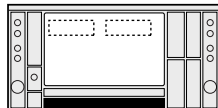
- All settings can be used simultaneously.
- SEL, SKIP and receive mode can be set in the memory list screen.
- At least 2 memory channels must be programmed with the desired condition for scan to proceed.

• **[Receiver] screen**

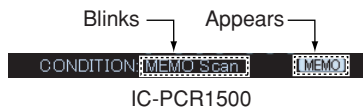
IC-PCR1500



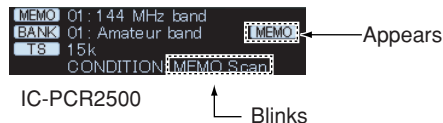
IC-PCR2500



Active band only



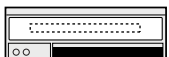
Blinks → Appears →
IC-PCR1500



IC-PCR2500
Blinks → Appears

• **[Compo] screen**

IC-PCR1500



METER/SCAN

IC-PCR2500



MAIN SUB



Blinks → Appears →

7 SCAN OPERATION (Multi-function receiver/Component screens only)

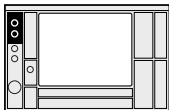
■ Scan resume condition

When receiving a signal, scanning automatically pauses on that signal. The scan resume condition sets the time that the scan pauses before resuming or whether scan stops instead of pausing.

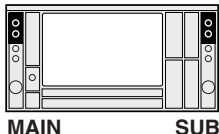
- ① Click the [SET] button to call up the [Scan Delay] screen if it is not displayed.
- ② Select the scan delay condition from 'Pause until Signal Disappears,' 'Delay Volume' or 'Scan Stop.'

• [Receiver] screen

IC-PCR1500



IC-PCR2500



MAIN

SUB



[SET]

• [Compo] screen

IC-PCR1500



METER/SCAN

IC-PCR2500



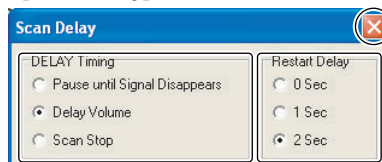
MAIN

SUB



[SET]

• [Scan Delay] screen



③ Click

① Select

② Select

(a) 'Pause until Signal Disappears'

Scan pauses when receiving a signal and remains paused until the signal disappears.

(b) 'Delay Volume'

When setting a delay time using the [DELAY] control (on [Receiver] screen or Component screen), scan pauses when receiving a signal and then resumes after the specified delay.

(c) 'Scan Stop'

When a signal is received during scan, scan stops and does not resume.

- ③ Select a restart delay time in [Restart Delay]. This setting is valid when (a) or (b) is selected in step ②.
 - **0 Sec.** : Scan resumes immediately after the signal disappears.
 - **1 Sec.** : Scan resumes 1 sec. after the signal disappears.
 - **2 Sec.** : Scan resumes 2 sec. after the signal disappears.
- ④ Click the close ([X]) button to close the setting screen.

■ Scan speed setting

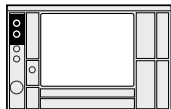
The searching speed of frequencies or memory channels is variable.

Click the **[SPEED]** control to set the speed at which scans search through frequencies/memories for signals.

- Right-click to increase the speed level.
- Left-click to decrease the speed level.
- When clicking and holding **[SPEED]**, the scan speed scrolls up or down.

• [Receiver] screen

IC-PCR1500

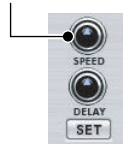


IC-PCR2500



MAIN

SUB

[SPEED]

• [Compo] screen

IC-PCR1500



METER/SCAN

IC-PCR2500



MAIN

SUB

[SPEED]

Priority scan type

The priority scan checks for signals on the frequency every 5 sec. while operating on a scanning memory channel or scanning.

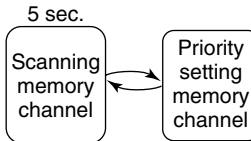
The scan resumes according to the selected scan resume condition. See p. 90 for details.

NOTE: If the pocket beep function is activated, the receiver automatically selects the tone squelch function when priority scan starts.

MEMORY CHANNEL SCAN

While operating on a frequency, priority scan checks for a signal on the selected memory channel every 2 to 60 sec.

• A memory channel with skip information can be scanned.

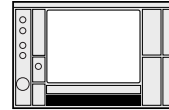


Priority scan operation

- ① Set the receive frequency. (p. 48)
- ② Right-click the [PRIO] button to call up the [Priority Scan] setting screen if it is not displayed.

• [Receiver] screen

IC-PCR1500



IC-PCR2500



Active band only



• [Compo] screen

IC-PCR1500



METER/SCAN

IC-PCR2500



MAIN SUB



[PRIO]

• [Priority Scan] screen

A screenshot of the "Priority Scan" setting screen. It has a blue header and contains the following fields and buttons:

- Scan Channel:** Bank (1 Amateur band), Ch (1 144 MHz)
- Priority Interval (2-60):** 5 Sec
- Buttons:** CHECK, a red 'X' button, and a close button.

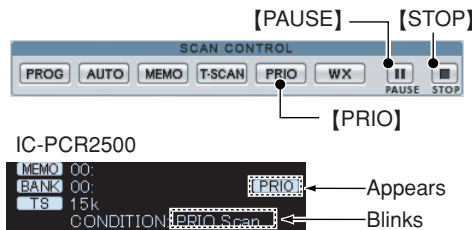
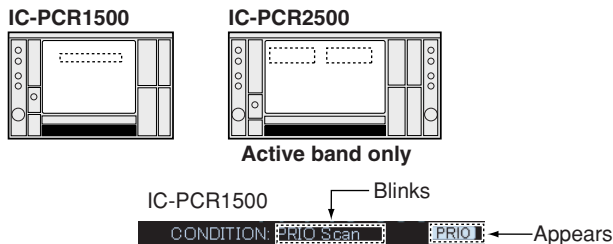
Numbered instructions are overlaid on the screen:

- ① Select a memory bank.
- ② Select a memory channel.
- ③ Set the scanning interval
- ④ Click
- ⑤ Click

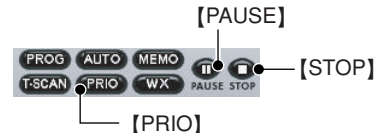
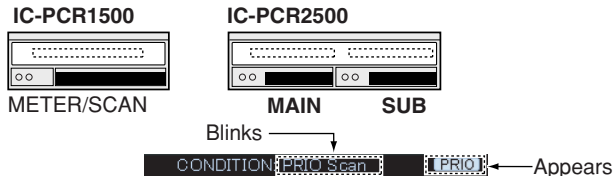
- ③ Set the scanning channel and bank in [Scan Channel].
- ④ Set the scanning interval from 2 to 60 sec in [Priority Interval], then click the close ([X]) button to close the setting screen.
 - Click [CHECK] to monitor the selected priority channel.
 - Click [OFF] to stop monitoring the priority channel.

- ⑤ Click [PRIO] button to start priority scan.
 - “PRIO Scan” blinks and [PRIO] appears while scanning.
 - The receiver checks the memory channel according to the setting interval.
 - The scan resumes according to the selected scan resume condition. (p. 90)
 - While the scan is pausing, pushing the pause button ([||]) resumes the scan manually.
- ⑥ To stop the scan, click [STOP] or [PRIO].

• [Receiver] screen



• [Compo] screen



Tone/DTCS operation

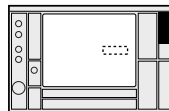
The tone or DTCS opens only when receiving a signal with the same pre-programmed subaudible tone or DTCS code, respectively in FM mode. You can silently wait for the specified signal using the same tone.

◆ Tone squelch frequency setting

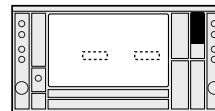
- ① Click [FM] to select FM mode.
- ② Click [TSQL] to turn the tone squelch ON.
 - “TSQL” appears in the function display.
- ③ Right-click [TSQL] to display the [TSQL] setting screen.
- ④ Click [▼] to select the desired tone squelch frequency.
 - 51 tone frequencies from 67.0 to 254.1 Hz are available.
- ⑤ Check the [Reverse Action] check box to mute the received audio signal when the received signal's tone is matched.
 - “R” appears in the function display.
- ⑥ Click the close button (X) to close the [TSQL] setting screen.
- ⑦ When the received signal includes a matching tone, squelch opens and the signal can be heard.
 - When the [Reverse Action] check box is checked in step ⑤, the received audio signal is muted.
 - When the received signal's tone is not matched, tone squelch does not open, however, the S-indicator shows signal strength.
- ⑧ Click [TSQL] again to cancel the tone squelch.
 - “TSQL” disappears.

• [Receiver] screen

IC-PCR1500

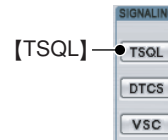


IC-PCR2500



Active band only

Indicators **TSQL R** ← Reverse Action indicator
 ← Tone squelch indicator



• [Compo] screen

IC-PCR1500

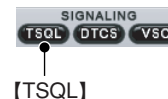


MODE/VOL PANEL

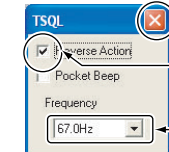
IC-PCR2500



Active band only



• [TSQL] screen



- ③ Click
- ② Check the check box to turn the Reverse Action ON.
- ① Select the desired tone squelch frequency.

• Available tone squelch frequencies list (Hz)

67.0	79.7	97.4	118.8	146.2	167.9	186.2	206.5	241.8
69.3	82.5	100.0	123.0	151.4	171.3	189.9	210.7	250.3
71.0	85.4	103.5	127.3	156.7	173.8	192.8	218.1	254.1
71.9	88.5	107.2	131.8	159.8	177.3	196.6	225.7	
74.4	91.5	110.9	136.5	162.2	179.9	199.5	229.1	
77.0	94.8	114.8	141.3	165.5	183.5	203.5	233.6	

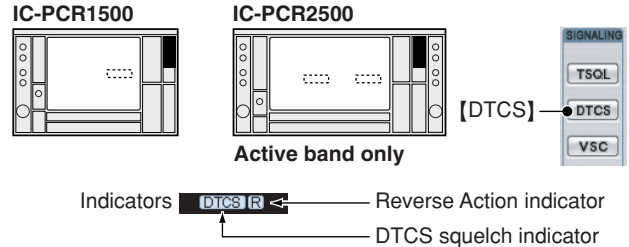
◇ **DTCS code setting**

- ① Click **[FM]** to select FM mode.
- ② Click **[DTCS]** to turn the DTCS squelch ON.
 - “DTCS” appears in the function display.
- ③ Right-click **[DTCS]** to display the [DTCS] setting screen.
- ④ Click **[▼]** to select the desired DTCS code.
 - 104 DTCS code from 023 to 754 are available.
- ⑤ Check the [Reverse Action] check box to mute the received audio signal when the received signal’s tone is matched.
 - [R] appears in the function display.
- ⑥ Click the close button ([X]) to close the [DTCS] setting screen.
- ⑦ When the received signal includes a matching code, squelch opens and the signal can be heard.
 - When the [Reverse Action] check box is checked in step ⑤, the received audio signal is muted.
 - When the received signal’s code does not match, tone squelch does not open, however, the S-indicator shows signal strength.
- ⑧ Click **[DTCS]** again to cancel the DTCS squelch.
 - “DTCS” disappears.

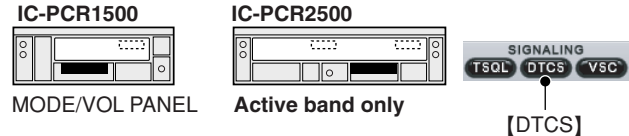
• **Available DTCS code list**

023	054	125	165	245	274	356	445	506	627	732
025	065	131	172	246	306	364	446	516	631	734
026	071	132	174	251	311	365	452	523	632	743
031	072	134	205	252	315	371	454	526	654	754
032	073	143	212	255	325	411	455	532	662	
036	074	145	223	261	331	412	462	546	664	
043	114	152	225	263	332	413	464	565	703	
047	115	155	226	265	343	423	465	606	712	
051	116	156	243	266	346	431	466	612	723	
053	122	162	244	271	351	432	503	624	731	

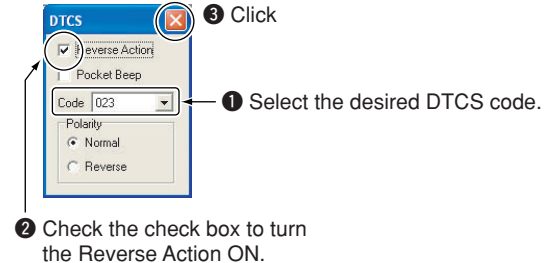
• **[Receiver] screen**



• **[Compo] screen**



• **[DTCS] screen**

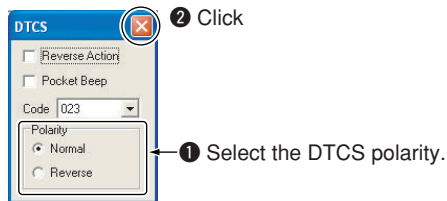


■ DTCS polarity setting

As well as a code setting, the polarity setting is also available for the DTCS operation. When a different polarity is set, the DTCS never releases audio mute even when a signal with a matching code number is received.


- ① Click **[FM]** to select FM mode.
- ② Click **[DTCS]** to turn the DTCS squelch ON.
 - “DTCS” appears in the function display.
- ③ Right-click **[DTCS]** to display the [DTCS] setting screen.
- ④ Select the DTCS polarity from “Normal” and “Reverse” in [Polarity].
- ⑤ Click the close button (**[X]**) to close the [DTCS] setting screen.

• [DTCS] screen

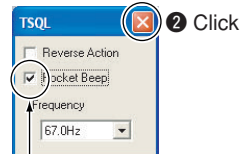


■ Pocket beep operation

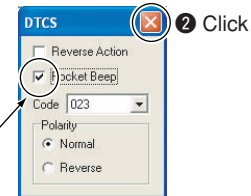
This function uses subaudible tones for calling and can be used as a “common pager” to inform you that someone has called while you were away from the receiver. Pocket beep emission type can be set in the [Audio Setting] screen. (p. 107)

- ① Click **[FM]** to select FM mode.
- ② Click **[TSQL]** (or **[DTCS]**) to turn the tone (or DTCS) squelch ON.
 - “TSQL” or “DTCS” appears in the function display.
- ③ Right-click **[TSQL]** (or **[DTCS]**) to display the [TSQL] (or [DTCS]) setting screen.
- ④ Check the [Pocket Beep] check box to turn the pocket beep function ON.
 - “” appears in the function display.
- ⑤ Click the close button (**[X]**) to close the [TSQL] (or [DTCS]) setting screen.

• [TSQL] screen



• [DTCS] screen



■ Tone scan operation

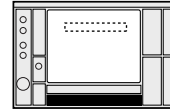
By monitoring a signal using with pocket beep, tone or DTCS squelch, you can determine the tone frequency or DTCS code necessary to open the squelch.

- ① Click **[FM]** to select FM mode.
- ② Select the tone type, tone squelch or DTCS to be scanned, then set the desired tone squelch frequency or DTCS code. (pgs. 94, 95)
- ③ Click **[T-SCAN]** to start the tone scan.
 - “AUTO Scan” blinks and **[AUTO]** appears while scanning.
- ④ When the TSQL tone frequency or 3-digit DTCS code is matched, the squelch opens and the tone frequency is temporarily programmed into the selected memory channel.
 - The tone scan pauses when a TSQL tone frequency or 3-digit DTCS code is detected.
 - The decoded TSQL tone frequency or 3-digit DTCS code is used for the tone encoder or tone encoder/decoder depending on the selected tone condition or type in step ②.
- ⑤ To stop the scan, click **[STOP]** or **[T-SCAN]**.

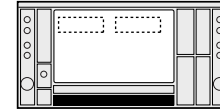
☞ **NOTE:** The decoded tone frequency is programmed temporarily when a memory or call channel is selected. However, this will be cleared when the memory/call channel is re-selected.

• [Receiver] screen

IC-PCR1500



IC-PCR2500



Active band only



[T-SCAN]

[PAUSE]

[STOP]

IC-PCR1500

Appears →
CONDITION: TONE Scan

Blinks ↑

T-SCAN

IC-PCR2500

MEMO 01: 144 MHz band
BANK 02: Amateur band
TS 15k
CONDITION: TONE Scan

Appears

Blinks ↓

T-SCAN

• [Compo] screen

IC-PCR1500



METER/SCAN

IC-PCR2500



MAIN SUB



[T-SCAN]

[PAUSE]

[STOP]

Blinks →

CONDITION: TONE Scan

T-SCAN

← Appears

10 BAND SCOPE (Multi-function receiver/Component screens only)

■ Operation

The band scope function has 2 modes, Frequency and Time modes.

When Frequency mode is selected, the band scope function sweeps in the specified span from the displayed frequency and allows you to visually check the received signal strength on the function display.

When Time mode is selected, the band scope function displays the received signal strength in the specified time period on the function display while sweeping.

- When SSB or CW mode is selected, receive audio is muted while monitoring the band scope.
- According to the setting combination of the sweep width and sweep tuning step, some signals may not be displayed on the function display during sweeping.
- During IC-PCR2500's dualwatch operation, band scope function is available on Main band only.

◇ Using Frequency mode

- ① Click **[FREQ]** to select Frequency mode.
 - Time mode is selected when **[TIME]** is clicked.
- ② Click the sweep start button (**[▶]**) to begin a sweep; signal conditions appear starting from the center of the range.
 - Conditions over the entire set frequency span can be observed around the center frequency of the currently received frequency.
 - When a strong signal is received, the waveform is indicated small.

- ③ Click **[SPAN +]** or **[SPAN -]** to select the sweep width through SPAN1 (± 25.0 kHz) to SPAN5 (± 500 kHz).*
 - Choose SPAN1 when band conditions are crowded (many signals are present); choose SPAN5* when few signals are present.*When the wide band scope function is selected, sweep width expands to SPAN8 (± 5 MHz). (p. 103)
- ④ Click **[▲](TS)** or **[▼](TS)** to select the sweep tuning step.
 - "LIMIT" appears when a selected sweep tuning step is outside the automatic sweep step setting. (p. 102)
- ⑤ Click the waveform to select the frequency of the signal.
 - Click **[II]** to pause a sweep and monitor the frequency. Repeat to resume the sweep. ("PAUSE" is displayed.)
 - While pausing the band scope, you can also select the displayed signal frequency by clicking the waveform.
In this case, the selected frequency does not move, and the previously received frequency is kept to center. So you can select the previously received frequency simply by clicking a center.
- ⑥ Click the sweep stop button (**[■]**) to stop a sweep.

◇ Using Time mode

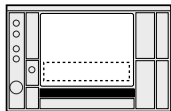
- ① Click **[TIME]** to select Time mode.
 - Frequency mode is selected when **[FREQ]** is clicked.
- ② Click the sweep start button (**[▶]**) to begin a sweep; the received signal strength is displayed.
- ③ Click **[TIME +]** or **[TIME -]** to select the time scale for indication through 100 min, 30 min, 10 min and 3 min.
- ④ Click the sweep stop button (**[■]**) to stop a sweep.

◇ About the limit indicator

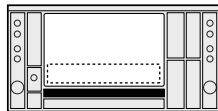
When a selected sweep tuning step is outside the automatic sweep step setting (p. 102), "LIMIT" appears in the band scope display during the band scope operation.

• [Receiver] screen

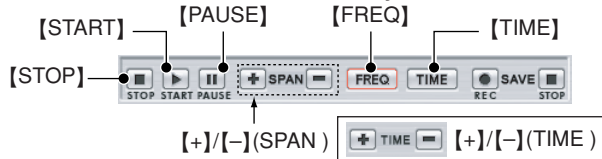
IC-PCR1500



IC-PCR2500



Active band only



• [Compo] screen

IC-PCR1500

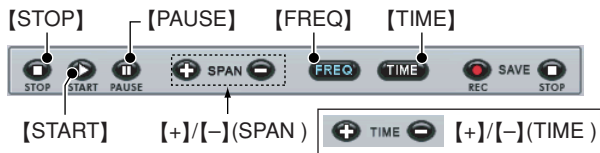


IC-PCR2500



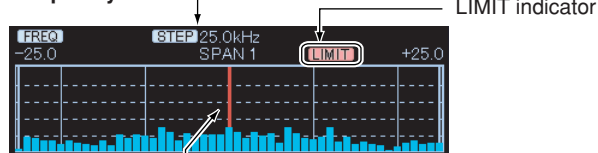
METER/SCAN

Active band only



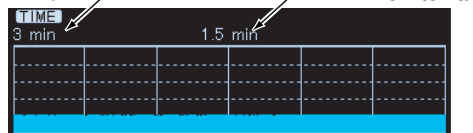
• [Receiver] screen

Frequency



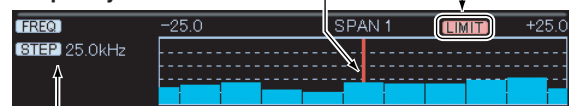
Center frequency

Time

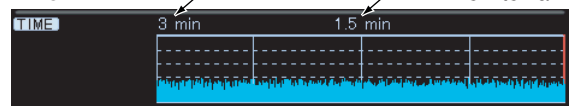


• [Compo] screen

Frequency



Time



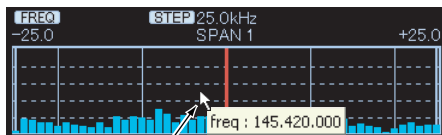
10 BAND SCOPE (Multi-function receiver/Component screens only)

■ Pick up signal function

The pick up signal function provides quick frequency setting during the band scope operation. By clicking the desired waveform, the clicked point frequency is set to the receive frequency.

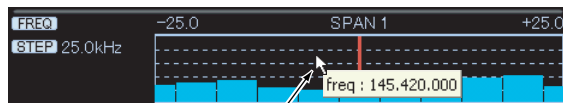
While pausing the band scope, you can also select the displayed signal frequency by clicking the waveform. In this case, the selected frequency does not move, and the previously received frequency is kept to center. So you can select the previously received frequency simply by clicking a center.

• [Receiver] screen



Click

• [Compo] screen



Click

■ Saving the sweep data

The band scope sweep data can be saved in CSV (Comma Separated Values) file format.

- ① Click the sweep start button (**[▶]**) to begin a sweep. (p. 98)
 - Frequency mode is selected when **[FREQ]** is clicked, and Time mode is selected when **[TIME]** is clicked.
- ② Click the recording start button (**[●]**) to start saving the receiving signal contents while sweeping.
 - When Time mode is selected in step ①, the save time interval can be selected— right click the **[TIME]** button to indicate the [Scope (TIME)] setting screen, then select the desired save time interval. (e.g. when “1.0 Sec” is selected, time scope data is saved every 1 sec.)
 - You can save the sweeping contents with the desired file name in the [File Name] box.
 - The following data are saved.
 - Recording start day and time
 - Center frequency
 - Sweeping frequency
 - Sweeping time
 - Electrolytic strength
- ③ Click the recording stop button (**[■]**) to stop recording.

• [Receiver] screen

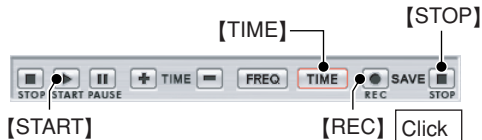
IC-PCR1500



IC-PCR2500



Active band only



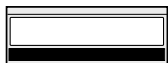
When Time mode is selected.

Right click [TIME]

Click to select the desired save time interval.

• [Compo] screen

IC-PCR1500

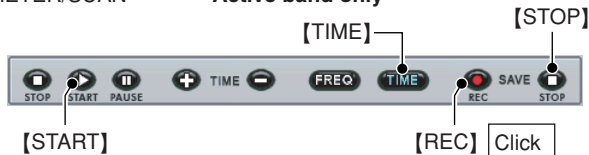


METER/SCAN

IC-PCR2500



Active band only



1 Select the desired folder.

2 Type a name for the file

3 Click

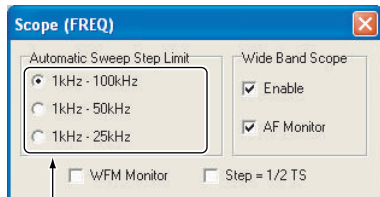
10 BAND SCOPE (Multi-function receiver/Component screens only)

■ Changing the automatic sweep step limit

The frequency steps used while sweeping are automatically set according to the tuning step. However, these steps can be defined using the [Scope (FREQ)] setting screen on the setting screen.

- ① Right-click the **[FREQ]** button to call up the [Scope (FREQ)] setting screen if it is not displayed.
- ② Click the desired frequency step range in the [Automatic Sweep Step Limit].
 - The sweep step range can be selected from one of 1–100 kHz, 1–50 kHz or 1–25 kHz.
- ③ Click the close (**[X]**) button to close the setting screen.

• [Scope (FREQ)] screen



Click to the desired sweep step.

• [Receiver] screen

IC-PCR1500



IC-PCR2500



Active band only



• [Compo] screen

IC-PCR1500



METER/SCAN

IC-PCR2500



Active band only



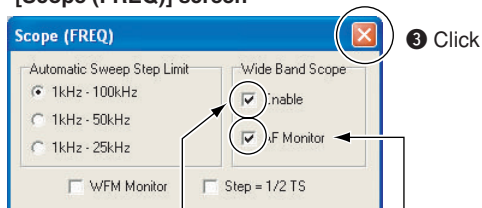
■ Wide band scope function

The wide band scope function is available to sweep a wide band scope (± 1 , 2 or 5 MHz.)

While sweeping the band scope, AF monitor function is also available.

- ① Right-click the [FREQ] button to call up the [Scope (FREQ)] setting screen if it is not displayed.
- ② Check the [Enable] check box in [Wide Band Scope] to enable the wide band scope function.
 - Check the [AF Monitor] check box to monitor the receiving frequency.
- ③ Click the close ([X]) button to close the setting screen.

• [Scope (FREQ)] screen



- ① Check the check box to turn [Wide Band Scope] ON.
- ② Check the check box to turn [AF Monitor] ON.

■ Band scope options

The following optional functions are available for the band scope function. These settings can be defined using the [Scope (FREQ)] screen.

● WFM Monitor function

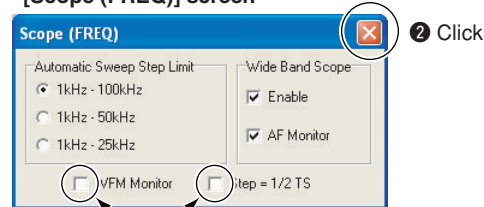
The WFM monitor function allows spectrum indication of the occupied bandwidth for the received WFM signal.

● 1/2 sweep step function

This function sets the sweep step in half of the tuning step, doubling the sweep resolution.

- ① Right-click the [FREQ] button to call up the [Scope (FREQ)] setting screen if it is not displayed.
- ② Check the desired check boxes in [Option], then click the close ([X]) button to close the setting screen.

• [Scope (FREQ)] screen



- ① Check the check boxes.

11 OTHER FUNCTIONS

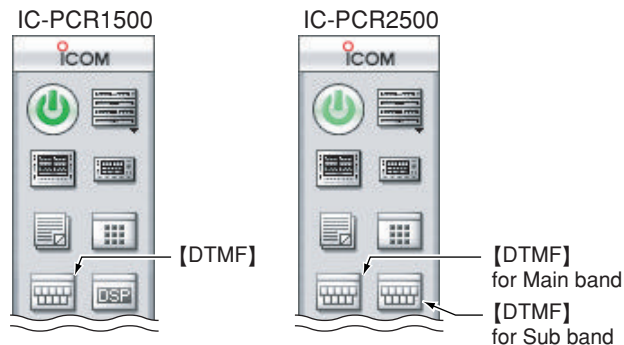
■ DTMF Operation

The control software can be remotely controlled using DTMF codes in FM mode. When receiving a programmed DTMF code, the control software displays a message, activates a program/screen saver or plays a Windows sound file.

Only the IC-PCR2500 or IC-R2500 can be installed optional UT-108 DTMF DECODER unit. When the IC-PCR2500 or IC-R2500 is installed the optional UT-108, DTMF operation for sub band is available.

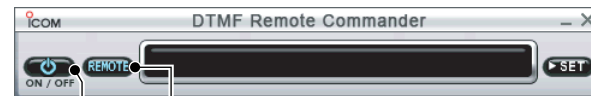
- ① Click **[FM]** to select FM mode.
- ② Click the **[DTMF]** icon on the tool bar to call up the [DTMF Remote Commander] screen if it is not displayed.
- ③ Click **[ON/OFF]** on the [DTMF Remote Commander] screen to toggle the DTMF decoder circuit ON and OFF.
 - The indicator lights when the function is ON.
- ④ Click the **[REMOTE]** button to toggle the DTMF remote function ON and OFF.
 - The indicator lights when the function is ON.

NOTE: When receiving a signal including a DTMF code, the received code is displayed in the DTMF indicator window. Up to 24 digits of the latest received DTMF code are displayed.



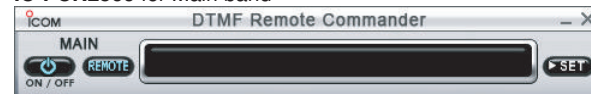
• [DTMF Remote Commander] screen

IC-PCR1500



[ON/OFF] **[REMOTE]**

IC-PCR2500 for Main band



For Sub band

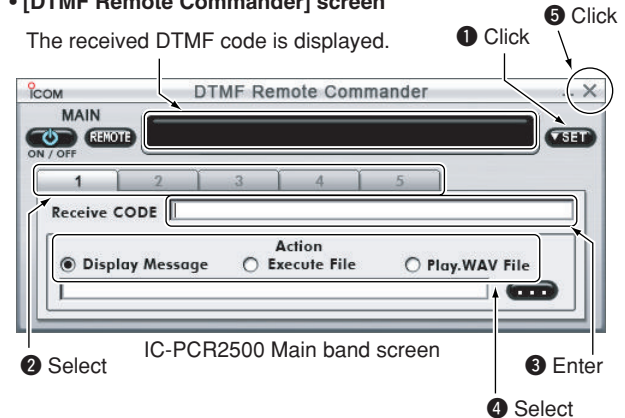


◇ Setting the DTMF receive code

- ① Click the [DTMF] icon on the tool bar to call up the [DTMF Remote Commander] screen if it is not displayed.
- ② Click [SET] to call up the receive code setting screen.
- ③ Click the desired tab from [1] to [5] for the receive code setting, then enter the desired key code in the [Receive CODE] field using the keyboard.
 - 0 to 9, A, B, C, D, E (*) and F (#) can be used.
- ④ Select the desired action from 'Display Message', 'Action Execute File' or 'Play.WAV File' when the received code is matched to the [Receive CODE] setting.
 - (a) 'Display Message'
 - To display a entered message in the text box.
 - (b) 'Action Execute File'
 - To execute a file, enter the file name, including full path name, or select a desired file after pushing the [...] button.
 - (c) 'Play.WAV File'
 - To play a file, enter the file name, including full path name, or select a desired file after pushing the [...] button.
- ⑤ Click the close button ([X]) to close the [DTMF Remote Commander] screen.

• [DTMF Remote Commander] screen

The received DTMF code is displayed.



■ Audio setting screen

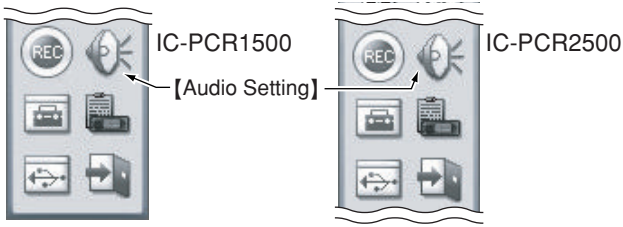
The Audio Setting screen adjusts the audio level and mute condition of the Main unit and the connected PC, and also, the confirmation beep ON/OFF, the pocket beep emission type and the pocket beep repeating times can be set.

◇ The AF gain/mute setting

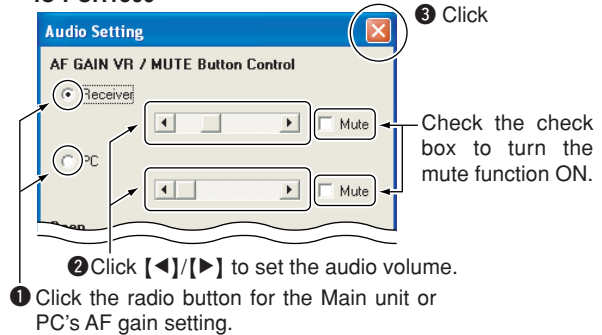
- ① Click the [Audio Setting] icon on the tool bar to call up the [Audio Setting] screen if it is not displayed.
- ② Click the [Receiver] or [PC] radio button to select the AF gain setting for the Main unit or PC.
- ③ Click [◀]/[▶] to adjust the AF gain level.
 - IC-PCR2500 can be adjusted the AF gain level for Main band or Sub band independently.
- ④ Check the [Mute] check box to turn the mute function ON or OFF.

When this function is turned ON, the received audio signal is muted.

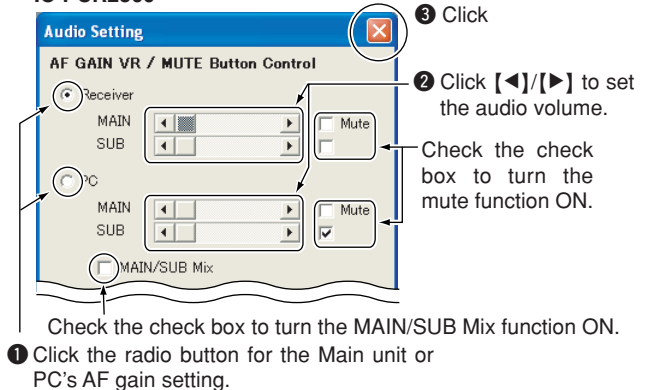
 - "MUTE" appears.
- ⑤ Click the close button ([X]) to close the Audio Setting screen.



• [Audio setting] screen IC-PCR1500



IC-PCR2500



◇ Beep settings

● Confirmation Beep

This function sets the confirmation beep ON or OFF.

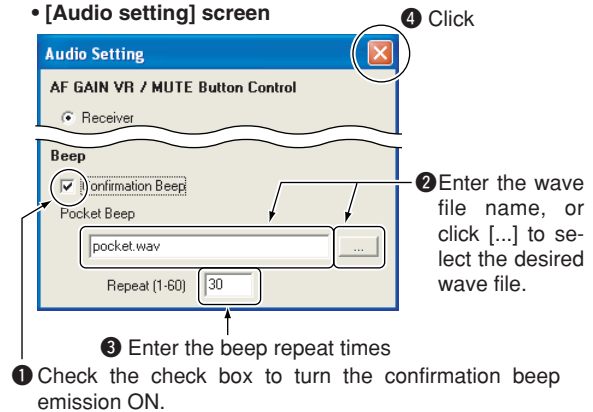
● Pocket Beep

This function sets the pocket beep emission type.

● Repeat (1–60)

This function sets the number of times for pocket beep repeating.

- ① Call up the [Audio Setting] screen if it is not displayed as at left.
- ② Check the [Confirmation Beep] check box to turn the confirmation beep emission ON.
- ③ Enter the wave file name in the [Pocket Beep] text box directly, or click [...] to select the desired wave file to set the pocket beep emission type.
- ④ Enter the beep repeat times from 1 to 60 in [Repeat (1–60)].
- ⑤ Click the close button ([X]) to close the [Audio Setting] screen.



11 OTHER FUNCTIONS

◇ When playing through the computer's speaker

The [Audio Device] setting is necessary when the audio is emitted via the built-in or connected PC speaker whenever the USB cable is connected.

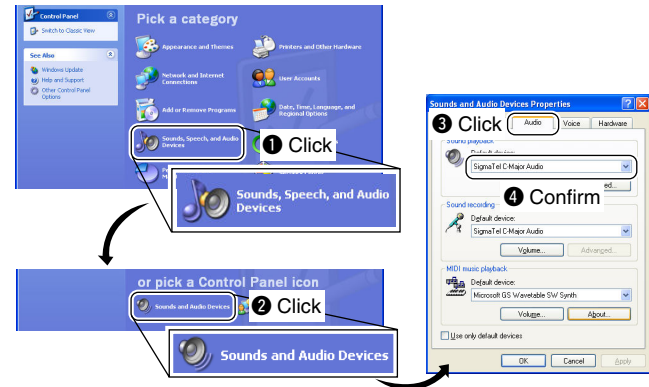
NOTE: The sound board should be installed into the PC to hear sound via the PC speaker. Please refer to your PC's instruction manual for details.

- 1 Click the [Power] icon on the tool bar to disconnect the Main unit, then turn the Main unit's power OFF.
 - The power indicator of the Main unit goes out.

● Microsoft® Windows® XP

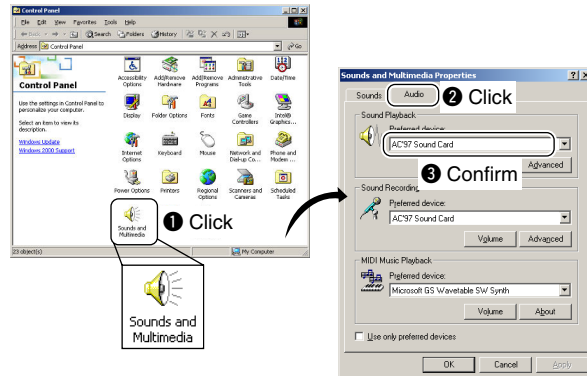
- 2 Click the [Start] button and click [Control Panel] in [My computer].
- 3 Click [Sounds, Speech, and Audio Devices], then click [Sounds and Audio Devices].
- 4 Click the [Audio] tab, and confirm the "Default device" in [Sound playback].
 - Making a note is recommended.
- 5 Click the close button ([X]) to close the [Sounds and Audio Devices Properties] screen.

➡ Continued to step 6 (as next page)



● Microsoft® Windows® 2000/Me

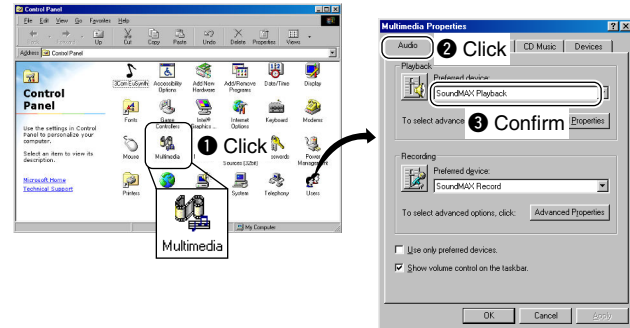
- ② Click the [Start] button and click [Control Panel] in [Settings].
- ③ Double click on [Sounds and Multimedia], then click the [Audio] tab.
- ④ Confirm the “Preferred device” in [Sound Playback].
 - Making a note is recommended.
- ⑤ Click the close button ([X]) to close the [Sounds and Multimedia Properties] screen.



➤ Continued to step ⑥ (as right)

● Microsoft® Windows® 98SE

- ② Click the [Start] button and click [Control Panel] in [Settings].
- ③ Double click on [Multimedia], then click the [Audio] tab.
- ④ Confirm the “Preferred device” in [Sound Playback].
 - Making a note is recommended.
- ⑤ Click close button ([X]) to close the [Sounds and Multimedia Properties] screen.



➤ Continued to step ⑥ (as below)

- ⑥ Turn the receiver's main unit ON, then click the [Power] icon on the tool bar to turn the IC-PCR1500/PCR2500 ON.
 - The power indicator of the main unit lights green.
- ⑦ Repeat steps ② to ③ according to your PC's OS.
- ⑧ Select the confirmed device, click [OK].

⚡ **NOTE:** The folder, item names may differ depending on the PC. Please refer to your PC's instruction manual for details.

Multi channel monitor

The receiver has 250 multi channels. A total of 10 memory banks are available for usage by group, etc., and 25 channels are assigned into a bank.

The multi channel monitor function scans the programmed multi channels, and makes you to check the received signal strength level on the channels visually.

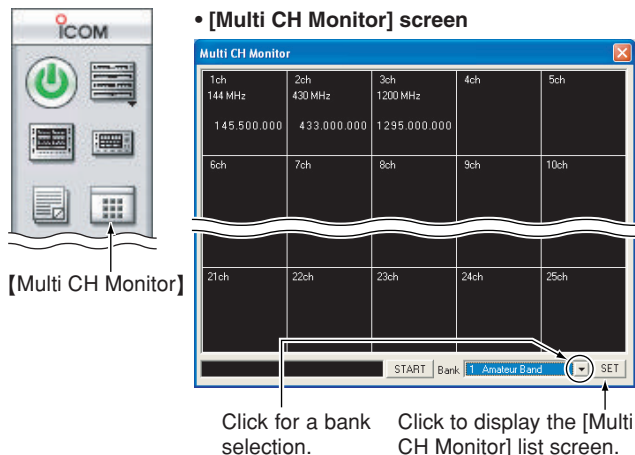
Multi channel programming

- ① Click the **[Multi CH Monitor]** icon on the tool bar to call up the **[Multi CH Monitor]** screen if it is not displayed.
- ② Click **[SET]** to display the **[Multi CH Monitor]** list screen, then program the desired items.
- ③ Click the close button (**[X]**) to close the **[Multi CH Monitor]** list screen.
 - The channel name and frequency are displayed on the programmed channel.
- ④ Click the close button (**[X]**) to close the **[Multi CH Monitor]** screen.

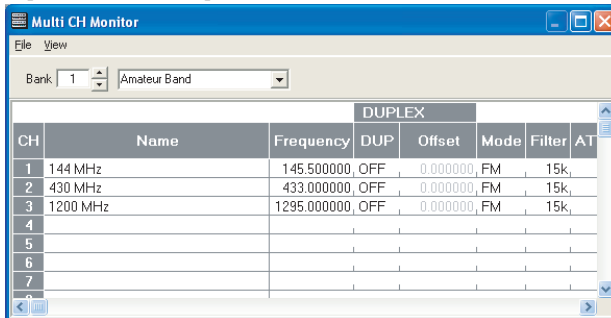
Multi channel programming details

The multi channel programming is the same as the memory channel programming. See the following pages for the multi channel programming details.

- Bank name programming (p. 75)
- Editing the memory list (p. 72)
- Saving memory channel data (p. 78)
- Opening memory channel data (p. 78)
- Creating a new memory channel data file (p. 78)
- Printing a memory channel (p. 78)
- Importing/Exporting a CSV file (p. 79)

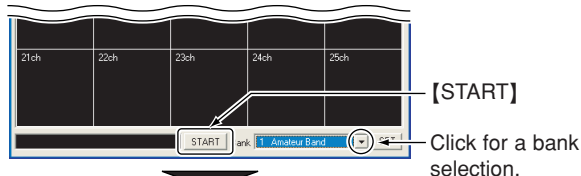


Multi CH Monitor list screen

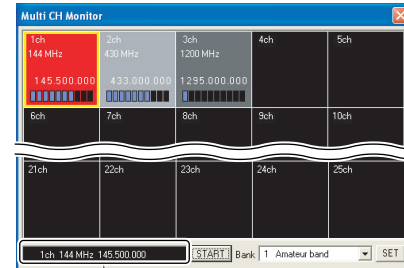
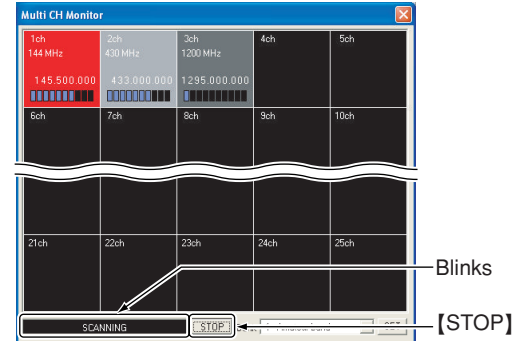


◇ Multi channel monitor operation

- ① Click the [Multi CH Monitor] icon on the tool bar to call up the [Multi CH Monitor] screen if it is not displayed.
 - The channel name and frequency are displayed on the programmed channel.
- ② Click [▼] to select the desired bank to monitor.
- ③ Click the [START] button to start scan.
 - ⚡ While scanning, the receive audio is muted.
 - “SCANNING” blinks in the information box.
 - The [START] button changes to the [STOP] button while scanning.
 - The background color changes according to the receiving signal strength level.
 - Black : Non programmed or no signal channel.
 - Dark gray : S-meter level is below S3.
 - Pale gray : S-meter level is above S3/below S9.
 - Red : S-meter level is above S9.
- ④ Click the desired channel screen to monitor.
 - Scan is cancelled.
- ⑤ Click the [STOP] button to stop the scan.



During scanning



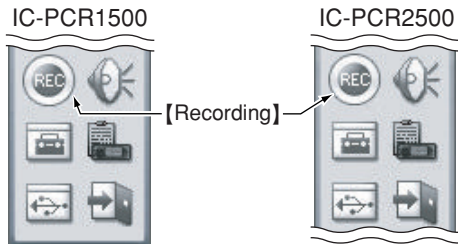
The selected channel information is displayed.

■ Recording operation

The receiver has a recorder function that enables you to record a signal. The recording data can be saved into the PC.

◇ Recording a receiving signal

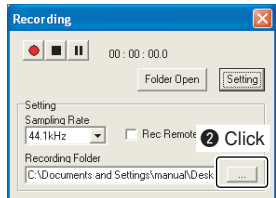
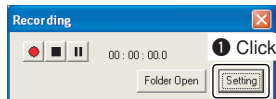
- ① Receive a signal. (p. 47)
- ② Click the [Recording] icon on the tool bar to call up the [Recording] screen if it is not displayed.



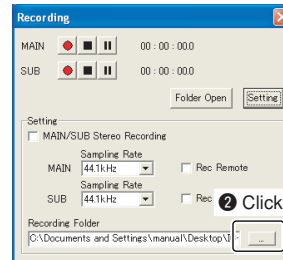
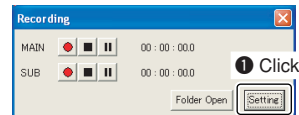
- ③ Click [Setting] to display the setting menu.
- ④ Click [...], then select the desired folder in which the recording data is saved.
After the folder selection, click [OK].
- ⑤ Click the recording start button (●) to start recording the receiving signal.
 - IC-PCR2500 can record the receiving signal for Main band or Sub band independently.
 - While recording, the recording counter and a file name are displayed.
 - Click [||] to pause a recording. Repeat to resume recording.
 - The recording data is saved in WAVE format.
- ⑥ Click the recording stop button (■) to stop recording.

• [Recording] screen

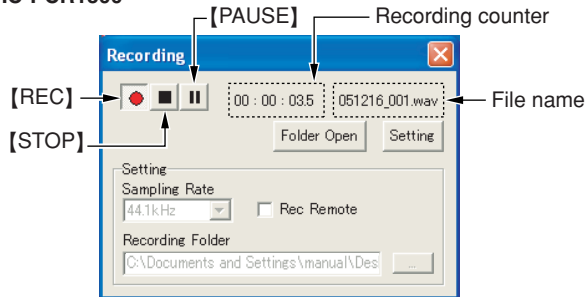
IC-PCR1500



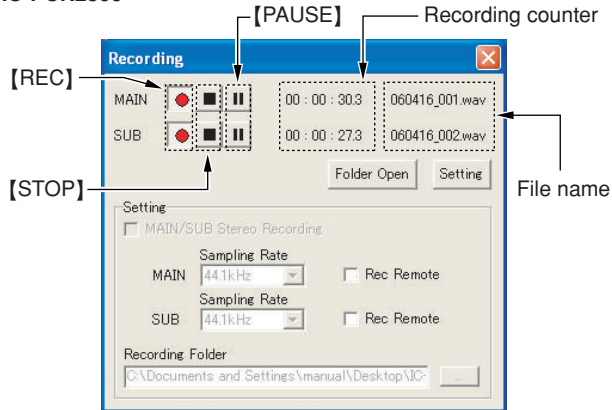
IC-PCR2500



- [Recording] screen (While recording)
IC-PCR1500



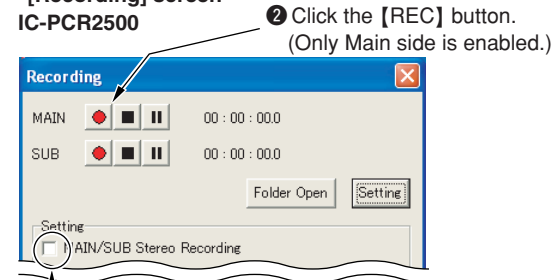
IC-PCR2500



◇ Stereo Recording (IC-PCR2500 only)

You can record the receiving signal as stereo sound. The Main and Sub bands must be set to the same frequency.

- [Recording] screen
IC-PCR2500



- 1 Check the box to turn the stereo recording function ON.

◇ Playing the recording data

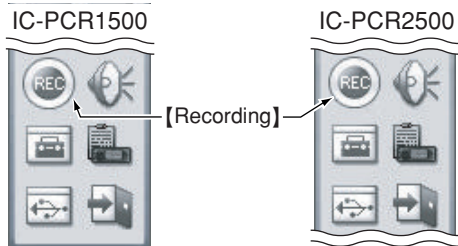
You can play back the recorded signal with the installed media player (e.g. Windows Media® Player, etc.) in the PC. Please refer to the media player's instruction manual for details.

■ Sampling Rate setting

Sampling Rate setting is expressed in samples per second, and determines the sound quality.

Although a higher sampling rate provides a better quality sound than a lower sampling rate, the file size becomes larger.

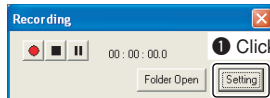
- ① Receive a signal. (p. 47)
- ② Click **[Recording]** icon on the tool bar to call up the **[Recording]** screen if it is not displayed.



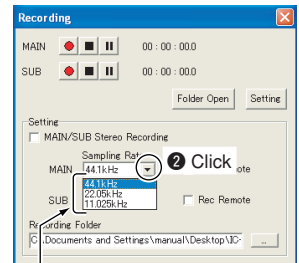
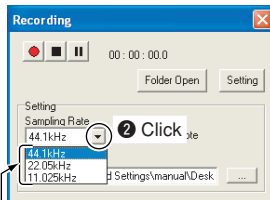
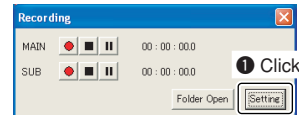
- ③ Click **[Setting]** to display the setting menu.
- ④ Click **[▼]** in **[Sampling Rate]**, then select the desired rate from the displayed menu.
 - The higher rate setting enables High-quality sound.

• **[Recording]** screen

IC-PCR1500



IC-PCR2500



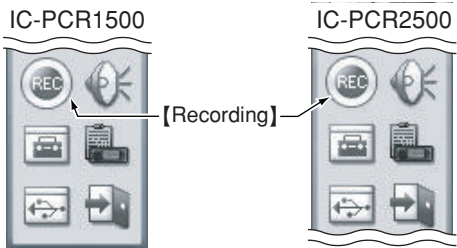
③ Select

③ Select

■ Remote recording function

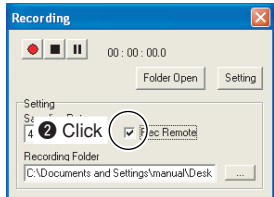
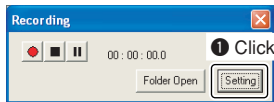
The remote recording function pauses recording automatically when no signal is received, and resumes after the signal appears.

- ① Receive a signal. (p. 47)
- ② Click the [Recording] icon on the tool bar to call up the [Recording] screen if it is not displayed.

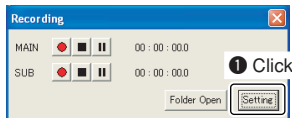


- ③ Click [Setting] to display the setting menu.
- ④ Click the [Rec Remote] check box to turn the remote recording function ON and OFF.
 - "✓" appears when the remote recording function is turned ON.

• [Recording] screen IC-PCR1500



IC-PCR2500



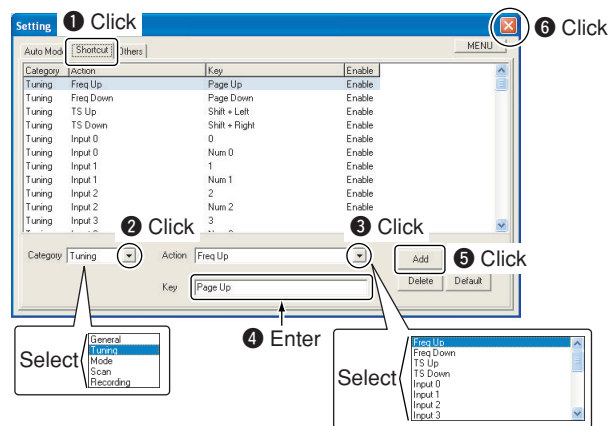
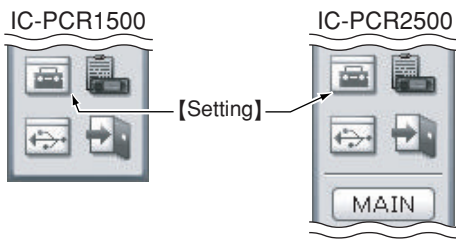
11 OTHER FUNCTIONS

■ Short cut key operation

Shortcut keys give you faster and easier operation from a PC key board.

◆ A shortcut key assignment

- 1 Click the [Setting] icon on the tool bar to call up the [Setting] screen if it is not displayed.
- 2 Click the [Shortcut] tab to display the shortcut key list.
- 3 Select the category from 'General,' 'Tuning,' 'Mode,' 'Scan' and 'Recording' in [Category].
- 4 Select the desired action in [Action].
 - Selectable items are differ according to [Category] setting.
- 5 Enter the desired shortcut key or combination of keys that executes a specific function in [Key].
 - [Ctrl], [Shift] and [Alt] keys act as shortcut keys with another key combination.
 - Some keys cannot be set as shortcut key.
- 6 Click [Add] to add the shortcut key or combination of keys to the list.
- 7 Click close button ([X]) to close the [Setting] screen.



[Example]: Assign “AM mode selection” to [Ctrl] + [A] key

- 1 Select 'Mode' in [Category].
- 2 Select 'AM' in [Action].
- 3 Click [Key] text box, then push [Ctrl] and [A] key.
 - “Ctrl + A” is indicated in the [Key] text box.
- 4 Click [Add] to add the shortcut combination keys to the list.
 - [Add] : Add the assigned shortcut key to the list.
 - [Set] : Set the changing of the shortcut key content.
 - [Delete] : Delete the shortcut key from the list.
 - [Default]: Reset the shortcut list to the default setting.

■ ANF function

The ANF (Automatic Notch Filter) function automatically attenuates beat tones, tuning signals, etc., even if they are moving. This function can be activated in SSB, AM, FM modes.

- ① Click the **[DSP]** icon on the tool bar to call up the [DSP Digital Filter] screen if it is not displayed.
- ② Click **[ON/OFF]** to turn the DSP (Digital Signal Processor) function ON.
 - “ON/OFF” indicator lights.
- ③ Click **[ANF]** to turn the ANF function ON.
 - ANF indicator lights.

IC-PCR1500

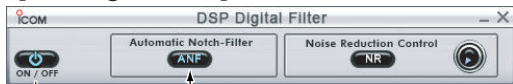


IC-PCR2500



[DSP]

• [DSP Digital Filter] screen



[ON/OFF]

[ANF]

■ NR function

The NR (Noise Reduction) function reduces noise components and picks out desired signals which are buried in noise. The received AF signals are converted to digital signals and then the desired signals are separated from the noise. This function is available for all operating modes.

The NR function may result in audio signal masking. Set the noise reduction level for maximum readability.

- ① Click the **[DSP]** icon on the tool bar to call up the [DSP Digital Filter] screen if it is not displayed.
- ② Click **[ON/OFF]** to turn the DSP (Digital Signal Processor) function ON.
 - “ON/OFF” indicator lights.
- ③ Click **[NR]** to turn the NR function ON.
 - NR indicator lights.

• [DSP Digital Filter] screen



[ON/OFF]

[NR] [NR Level]

During IC-PCR2500's dualwatch operation, DSP functions are available on Main band only.

13 DIGITAL MODE OPERATION (IC-PCR2500 Main band only)

■ Digital mode operation

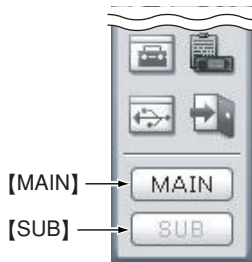
The IC-PCR2500 can operate in DV*1 mode or P25*2 mode when the optional UT-118 or UT-122 is installed.

*1: The optional UT-118 is required.

*2: The optional UT-122 is required.

Some versions come with the UT-122 installed.

- Click the **[MAIN]** icon on the tool bar to select the Main band.



Using [Receiver]/[Compo] screen

- Click **[DV]** or **[P25]** to select the desired digital mode.

Using [Simple] screen

- Click **[MODE]** indication to display a mode list, then select the desired digital mode.

• [Receiver] screen

Single band



Dualwatch

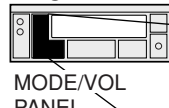


Main band only



• [Compo] screen

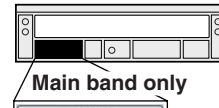
Single band



MODE/VOL PANEL



Dualwatch



Main band only

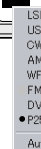


• [Simple] screen

Single band



Dualwatch



Mode indication

MODE FM

Main band only

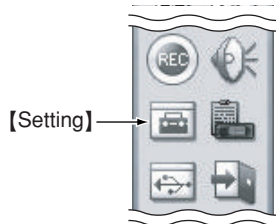
Receive mode list

■ DV mode setting

The IC-PCR2500 can receive the signals in DV* mode and low-speed data. If the transmit signal is included the GPS data, position data receiving is available.

*The optional UT-118 is required.

- ① Click the **[Setting]** icon on the tool bar to call up the **[Setting]** screen if it is not displayed.
- ② Click the **[DV]** tab to display the DV setting.



• **[Setting]** screen

③ Click

Setting ① Click

Auto Mode | Shortcut: **[DV]** | 25 | Others | MENU

RX Call Sign/Message Display

Standby Beep

Monitor
 Digital
 Analog

Option Unit Power
 Auto
 ON

[DATA] Baud Rate
 4800 bps
 9600 bps

Slow data --> COM Port
 Function : OFF
 COM Port : 1
 Baud Rate : 9600 bps
 Set

② Set the setting

Select the optional unit Set the transfer setting for
power setting. slow speed data to Com port.

Select the communication speed between receiver and PC for low speed data communication.

Select the monitor setting for DV mode.

Check the check box to turn the standby beep emission ON.


Check the check box to turn the RX call sign and Message indication ON, when received.

13 DIGITAL MODE OPERATION (IC-PCR2500 Main band only)

DV digital squelch function

While in DV mode operation, the digital call sign (DSQL) or digital code squelch opens only when receiving a voice signal with the same pre-programmed digital call sign or code, respectively.

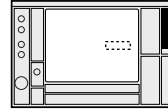
◇ Digital squelch setting

- 1 Click **[DV]** to select DV mode.
- 2 Click **[DSQL]** to turn the digital squelch ON.
 - “DSQL” (or “CSQL”) appears in the function display.
- 3 Right-click **[DSQL]** to display the [DV Digital SQL] setting screen.
- 4 Check the **[DSQL]** (or **[CSQL]**) check box to select the desired squelch type.
- 5 Edit the specific call sign for DSQL (or desired code for CSQL).
 - 0 to 99 code are available for CSQL.
- 6 Check the **[Pocket Beep]** check box to turn the pocket beep function ON, if desired.
 - “

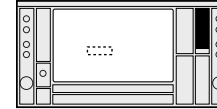
Multi-function receiver/Component screens only

• [Receiver] screen



Single band



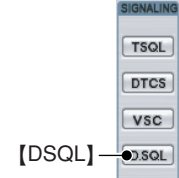
Dualwatch



Indicators

-  Digital call sign squelch indicator
-  Digital code squelch indicator

Main band only



• [Compo] screen

Single band

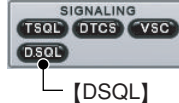


Dualwatch



MODE/VOL PANEL

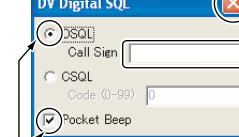
Main band only



• [DV Digital SQL] screen

Digital call sign squelch

4 Click



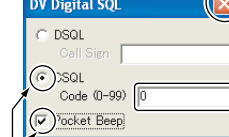
- 3 Check the check box to turn the **[Pocket Beep]** ON.

2 Enter the call sign.

- 1 Click to select the squelch type.

Digital code squelch

4 Click



- 3 Check the check box to turn the **[Pocket Beep]** ON.

2 Enter the digital code.

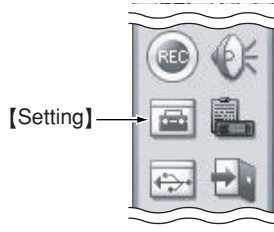
- 1 Click to select the squelch type.

■ P25 mode setting

The IC-PCR2500 can receive in P25* mode.

*The optional UT-122 is required. Some versions already come with the UT-122 installed.

- ① Click the **[Setting]** icon on the tool bar to call up the **[Setting]** screen if it is not displayed.
- ② Click the **[P25]** tab to display the P25 setting.



• **[Setting]** screen

③ Click

① Click

② Set the setting

Select the optional unit power setting.

Check the check box to turn the hexadecimal indication ON


Check the check box to turn the RX ID indication ON, when received.

13 DIGITAL MODE OPERATION (IC-PCR2500 Main band only)

■ P25 digital squelch function

While in P25 mode operation, 2 types of digital squelch, NAC or Selective, are available.

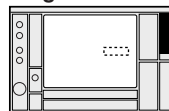
◇ Digital squelch setting

- ① Click **[P25]** to select P25 mode.
- ② Click **[DSQL]** to turn the digital squelch ON.
 - “NAC” (or “SEL”) appears in the function display.
- ③ Right-click **[DSQL]** to display the **[P25 Digital SQL]** setting screen.
- ④ Check the **[NAC]** (or **[SEL]**) check box to select the desired squelch type.
- ⑤ Edit the desired digital code.
 - 0 to FFF code are available for NAC.
- ⑥ Check the **[Pocket Beep]** check box to turn the pocket beep function ON, if desired.
 - “” appears in the function display.
- ⑦ Click the close button (**[X]**) to close the **[P25 Digital SQL]** setting screen.
- ⑧ When the received signal includes a matching digital code, squelch opens and the signal can be heard.
 - When the received signal’s call sign (or code) is not matched, digital squelch does not open, however, the S-indicator shows signal strength.
- ⑨ Click **[DSQL]** again to cancel the digital squelch.
 - “NAC” (or “SEL”) disappears.

Multi-function receiver/Component screens only

• [Receiver] screen

Single band



Dualwatch

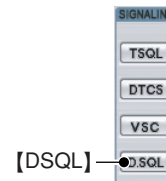


Main band only

Indicators

 NAC ← NAC squelch indicator

 SEL ← Selective squelch indicator



• [Compo] screen

Single band



MODE/VOL PANEL

Dualwatch



Main band only

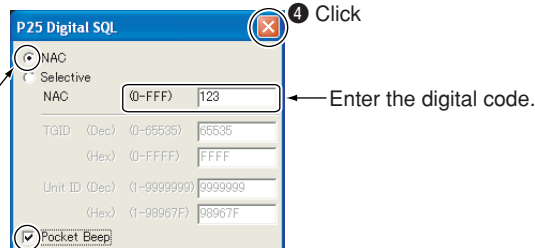


[DSQL]

■ Digital menu indication

Click the [Digital] icon on the tool bar to display the DV digital menu and/or P25 digital menu.

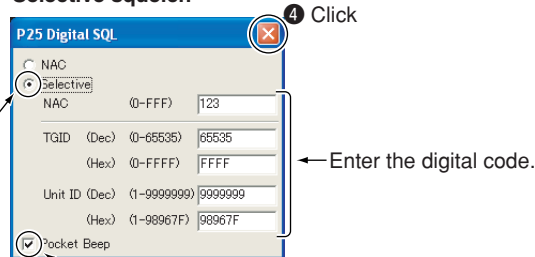
• [P25 Digital SQL] screen NAC squelch



- ④ Click
- ← Enter the digital code.
- ③ Check the check box to turn the [Pocket Beep] ON.

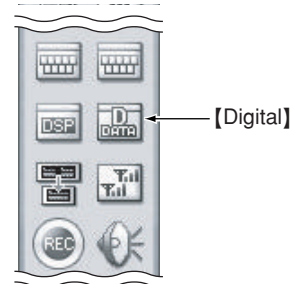
① Click to select the squelch type.

Selective squelch



- ④ Click
- ← Enter the digital code.
- ③ Check the check box to turn the [Pocket Beep] ON.

① Click to select the squelch type.

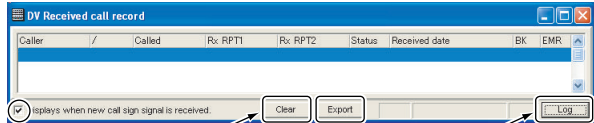


- Check mark "✓" indicates that the each screen is displayed.
- ✓ DV Received call record ← DV Received call record screen
 - ✓ DV Message ← DV Message screen
 - ✓ DV Terminal Window ← DV Terminal Window screen
 - ✓ P25 Received call record ← P25 Record call record screen
 - ✓ P25 ID List ← P25 Record call record screen

13 DIGITAL MODE OPERATION (IC-PCR2500 Main band only)

◇ DV Digital menu

• [DV Received call record] screen



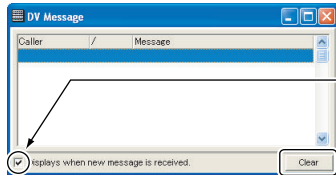
Click to clear the received call record.

Click to create the log file in CSV format.

Click to export the CSV format file.

Check the box to turn the DV Received call record screen automatically, when the signal with a new call sign is received.

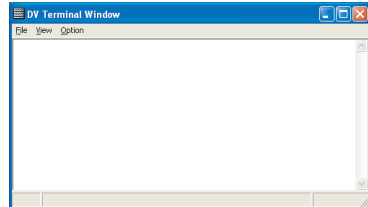
• [DV Message] screen



Check the box to turn the DV message screen automatically, when the signal with a new message is received.

Click to clear the DV message.

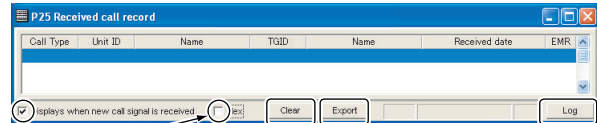
• [DV Terminal Window] screen



Displays the received DV data for the low speed data communication.

◇ P25 Digital menu

• [P25 Received call record] screen



Click to clear the received call record.

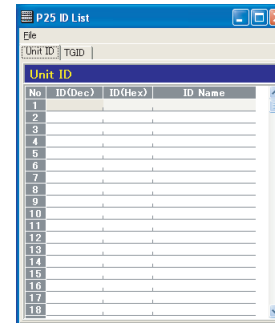
Click to create the log file in CSV format.

Click to export the CSV format file.

Check the box to turn the hexadecimal indication ON.

Check the box to turn the P25 Received call record screen automatically, when the signal with a new ID call is received.

• [P25 ID List] screen

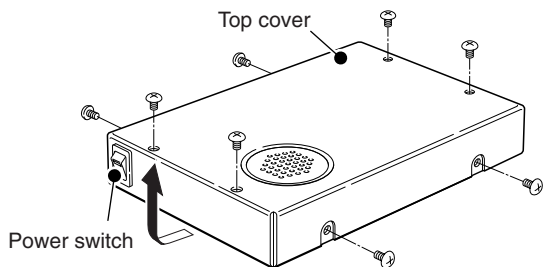


Displays the received unit IDs.

■ Opening the top cover

CAUTION: DISCONNECT the AC adaptor or DC power cable from the receiver Main unit before performing any work on the receiver.

- ① Turn the receiver Main unit power OFF, then disconnect the AC adaptor or DC power cable.
- ② Unscrew the 8 screws and disconnect the connected cables, then remove the top cover.
 - Be careful not to lose the screws.

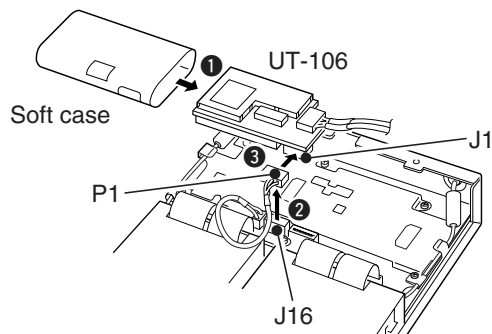


- ③ After installing the optional unit or any internal setting is finished, replace the top cover, cables and screws to the original position.

■ UT-106 installation

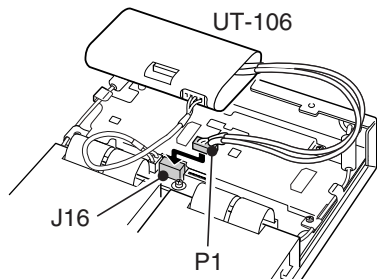
The optional UT-106 DSP RECEIVE UNIT provides AF DSP (Digital Signal Processor) functions such as ANF (Auto Notch Filter) and NR (Noise Reduction).

- ① Remove the top cover as shown at left.
- ② Insert the UT-106 to the supplied soft case. (①)
- ③ Disconnect P1 (4 pin) from J16 of the LOGIC board (②), then connect to J1 of the UT-106 (③).

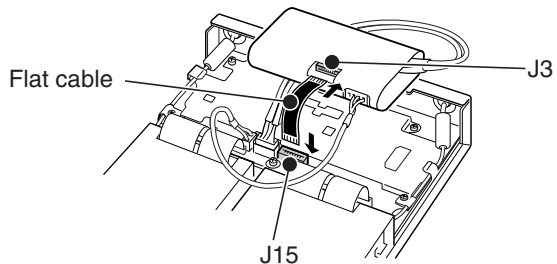


14 OPTIONAL UNIT INSTALLATION AND OTHER

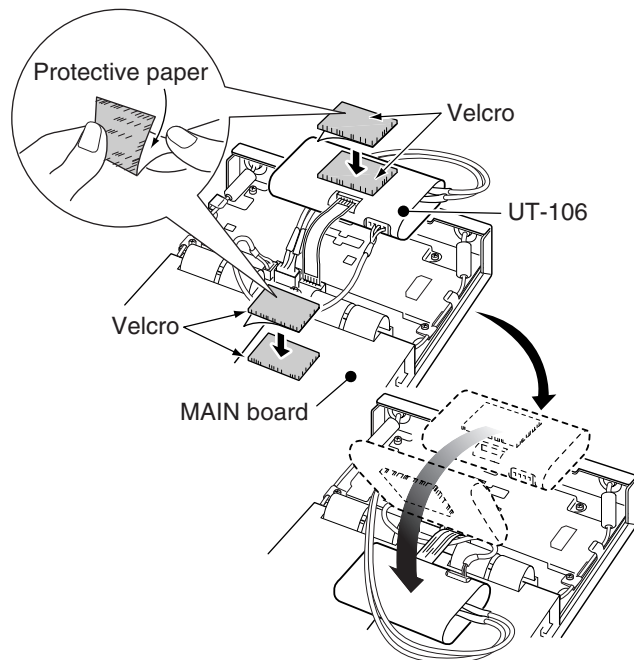
- ④ Connect P1 (4 pin) of the UT-106 to J16 of the LOGIC board.



- ⑤ Connect the supplied flat cable between J3 of the UT-106 and J15 of the LOGIC board.
• Be sure not upside down.



- ⑥ Remove the protective paper from the supplied velcro®, then attach it to the UT-106 and the shield case of MAIN board.



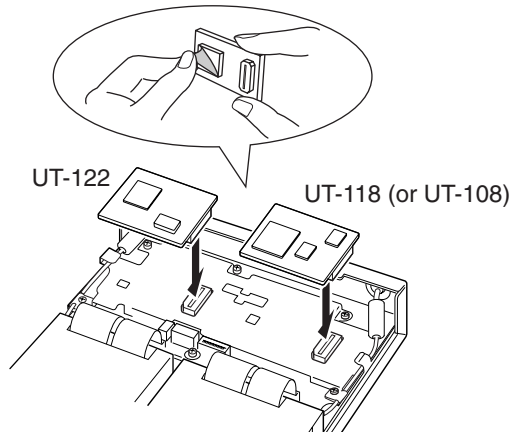
- ⑦ Replace the top cover, cables and screws to the original position.

Velcro® is a registered trademark of Velcro Industries B.V.

■ UT-108/UT-118/UT-122 installation

(IC-PCR2500/R2500 only)

- ① Remove the top cover as shown on p. 126.
- ② Connect the UT-108, UT-118 or UT-122 as shown below.

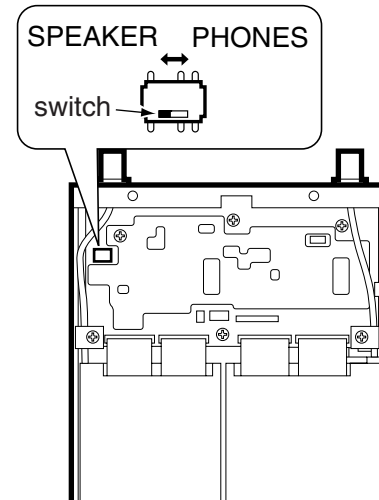


- ③ Replace the top cover, cables and screws to the original position.

■ INTERNAL AUDIO SWITCH

The internal switch must be set properly to use an external speaker, headphones or earphone.

- ① Remove the top cover as shown on p. 126.
- ② Set the switch as shown below.
 - Set the switch to [SPEAKER] when an external speaker is connected to the receiver. (default)
 - Set the switch to [PHONES] when headphones or earphone are/is connected to the receiver.
- ③ Replace the top cover, cables and screws to the original position.



15 USB PORT SETTING

■ USB port setting

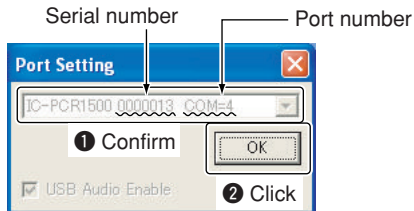
The connected PC's USB port number and the serial number of the Main unit can be selected/confirmed in [Port Setting] screen.

If some receiver's main units are connected to your PC, select the desired USB port and serial number when the IC-PCR1500/PCR2500 power is OFF. The only one Main unit can be operated. 2 or more Main units cannot be operated simultaneously.

◇ USB port confirmation

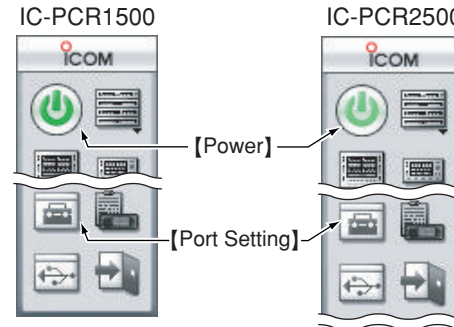
- 1 Click [Port Setting] icon on the tool bar to call up the [Port Setting] screen. (See illustration at right.)
 - The connected PC's USB port number and serial number of the Main unit are displayed.
 - During the control software is connected to Main unit, USB port selection is inhibited.
- 2 Confirm the connected USB port and serial number, click [OK].

• [Port setting] screen

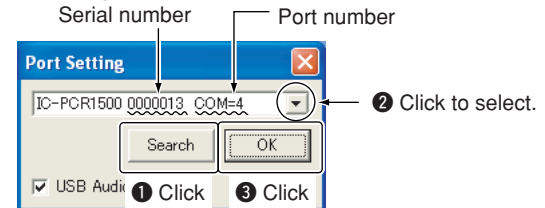


◇ USB port selection

- 1 Click [Power] icon on the tool bar to disconnect the Main unit.
- 2 Click [Port Setting] icon on the tool bar to call up the [Port Setting] screen.
- 3 Click [Search] to display the connected PC's USB port and serial number of the Main unit, if it is not displayed.
- 4 Click [▼] to select the desired USB port and serial number of the Main unit to be controlled.
- 5 After selection, click [OK].



• [Port setting] screen

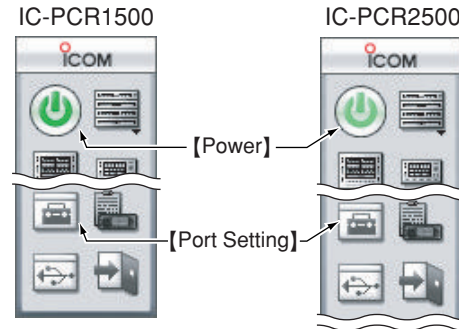


■ USB audio setting

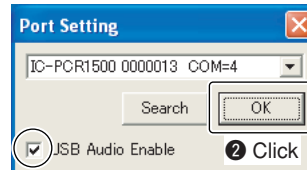
USB audio output function can be turned ON or OFF in [Port Setting] screen when the IC-PCR1500/PCR2500 power is OFF.

When the USB audio output function is OFF, the audio/mute setting for PC, recording function (pgs. 106, 112) are disabled, but the computer running speed will be faster than when the USB audio output function is ON.

- ① Click **[Power]** icon on the tool bar to disconnect the Main unit.
- ② Click **[Port Setting]** icon on the tool bar to call up the [Port Setting] screen.
- ③ Check the **[USB Audio Enable]** check box to turn the USB audio output function ON.
- ④ Click **[OK]**.



• [Port setting] screen



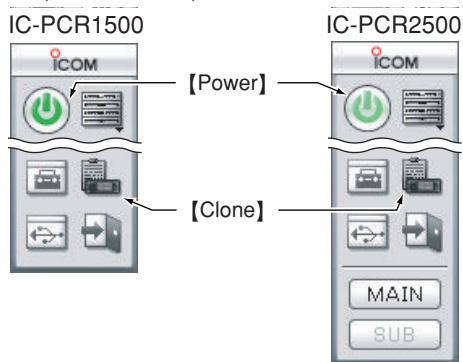
- ① Click

16 CLONING OPERATION

(Available only when the IC-R1500 or IC-R2500 is connected)

■ Launching the cloning software

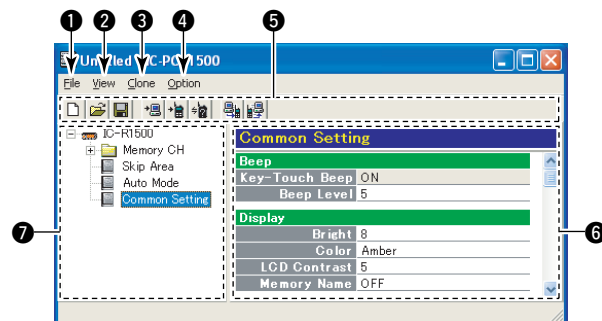
- ① Launch the IC-PCR1500_2500 program. (p. 27)
- ② Click the **[Power]** icon on the tool bar to connect the control software and Main unit, if it is disconnected.
- ③ Click the **[Clone]** icon on the tool bar to call up the Cloning screen (described left).



Note for the controller operation after cloning:

After cloning, click the **[Power]** icon on the tool bar to disconnect the control software and Main unit. Then, push **[PWR]** on the controller to turn the controller power ON.

◇ Cloning screen description



① FILE MENU [File]

Used for saving memory channel contents, printing the pre-programmed information or exiting the program, etc.

NOTE: When you print the current project settings, “Current Sheet...” and “All...” can be selected.

- Current Sheet... : Prints the currently shown sheet on the PC monitor screen.
- All... : Prints all sheets.

② VIEW MENU [View]

- Set the indicated character size and TSQL/DTCS setting, DV setting, P25 setting indication.
- Turn the tool bar ON or OFF.

DV or P25 setting indication does not appear for IC-PCR1500, or for IC-PCR2500 that is depending on version or option installation.

3 CLONING MENU [Clone]

- Click to display the cloning menu.
- Click [Information] to display the cloning information dialog box.

4 OPTION MENU [Option]

Click to display the convert menu.

5 TOOL BAR

Shortcut buttons appear on the tool bar when the tool bar indication is turned ON in the [View] menu.

	Creates a new setting project.		Indicates the connected Main unit information.
	Loads a saved ICF (Icom Cloning Format) file.		Converts the PC operation's data to the controller operation's data.
	Saves current project as an ICF file.		Converts the controller operation's data to the PC operation's data.
	Reads the data from the Main unit.		
	Writes the data to the Main unit.		

6 CONTENTS LIST SCREEN

Display the contents list (Memory CH, Common Setting, etc.).

7 TREE VIEW SCREEN

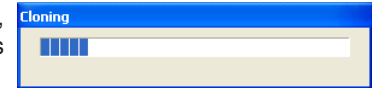
Click the folder icon which you want to edit.

- See the Memory CH (p. 68), Skip Area (p. 82) and Auto Mode (p. 55) programming for details.
- See the IC-R1500 instruction manual (☞ Section 9 [SET MODE]) or the IC-R2500 instruction manual (☞ Section 10 [SET MODE]) for details of the Common Setting.

Cloning operation

Click “” or select [Read <- Receiver] in [Clone] menu to start to read the programmed data from the connected Main unit.

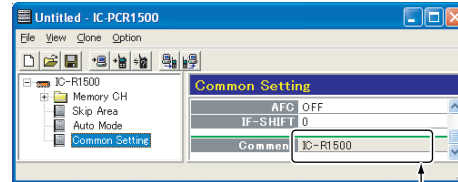
During cloning operation, the following screen is displayed.



Clone information

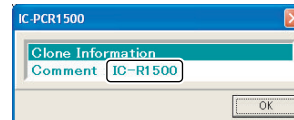
You can program a comment (up to 16 characters) in the [Common Setting] screen for quick identification of a Main unit's contents.

When you connect the Main unit to a PC using the supplied USB cable, you can check the Main unit's comment without reading all programmed data.



After cloning, click [Information] in the [Clone] menu or click “” to display the clone information dialog box.


Program [Comment], then clone to the Main unit.

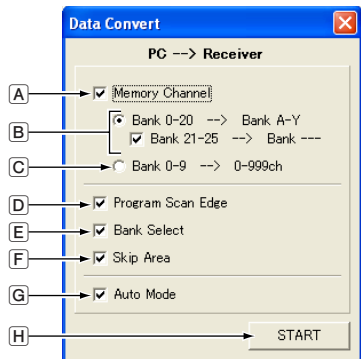




16 CLONING OPERATION

■ Data convert

◇ Converting the PC operation's data to the controller operation's data

- ① Click [Convert] in the [Option] menu to display the convert menu. Then select [PC -> Receiver] (or click “”).
- ② Set the option items (A) to (G), click [START] to start converting.




- A Check the check box to convert the PC operation's memory channel data to the controller operation's data.
 - The [Sub Name] setting of the PC operation's data is converted to the controller operation's memory name.
- B  Check the radio button to convert the PC operation's Bank 0 to 20 data to the Bank A to Y in the controller operation.
- C  Check the check box to convert the PC operation's Bank 21 to 25 data to the no Bank setting channels in the controller operation.

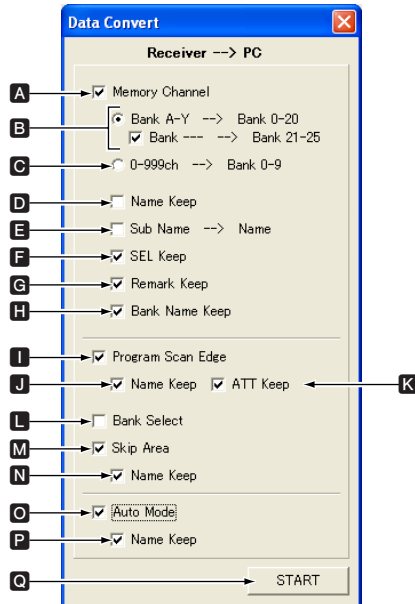
- D Check the radio button to convert the PC operation's Bank 0 to 9 memory channel data to the channels 0 to 999 (no Bank setting) in the controller operation.

/// **NOTE:** More than 1000 memory channels cannot be converted.

- D Check the check box to convert the Program Scan Edge settings.
- E Check the check box to convert the Bank Select settings.
- F Check the check box to convert the Skip Area settings.
- G Check the check box to convert the Auto Mode settings.
- H Click to start converting.

◇ Converting the controller operation's data to the PC operation's data

- ① Click [Convert] in the [Option] menu to display the convert menu. Then select [Receiver -> PC] (or click “”).
- ② Set the option items (A to P), click [START] to start converting.





- A** Check the check box to convert the controller operation's memory channel data to the PC operation's data.
- B**
 - ➔ Check the radio button to convert the controller operation's Bank A to Y data to the Bank 0 to 20 in the PC operation.
 - ➔ Check the check box to convert the controller operation's no Bank setting channels data to the Bank 21 to 25 in the PC operation.

NOTE: More than 500 no Bank setting memory channels cannot be converted.
- C** Check the radio button to convert the controller operation's channels 0 to 999 data to the Bank 0 to 9 in the PC operation.
- D** Check the check box to keep the PC operation's [Name] settings.
 - If it is not checked, the [Name] settings will be blanked after converting.
 - The controller operation's memory name is converted to the [Sub Name] settings in the PC operation.
- E** Check the check box to convert the PC operation's [Sub Name] settings to the [Name] settings.
- F** Check the check box to keep the PC operation's [SEL] settings.
 - If it is not checked, the [SEL] settings will be blanked after converting.
- G** Check the check box to keep the PC operation's [Remark] settings.
 - If it is not checked, the [Remark] settings will be blanked after converting.

16 CLONING OPERATION

- H** Check the check box to keep the PC operation's Bank name settings.
 - If it is not checked, the Bank name settings will be blanked after converting.
- I** Check the check box to convert the Program Scan Edge settings.
- J** Check the check box to keep the PC operation's Program Scan name settings.
 - If it is not checked, the Program Scan name settings will be blanked after converting.
- K** Check the check box to keep the PC operation's Program Scan ATT settings.
 - If it is not checked, the Program Scan ATT settings will be “-” after converting.
- L** Check the check box to convert the Bank Select settings.
- M** Check the check box to convert the Skip Area settings.
- N** Check the check box to keep the PC operation's Skip Area name settings.
 - If it is not checked, the Skip Area name settings will be blanked after converting.
- O** Check the check box to convert the Auto Mode settings.
- P** Check the check box to keep the PC operation's Auto Mode name settings.
 - If it is not checked, the Auto Mode name settings will be blanked after converting.
- Q** Click to start converting.

 While operating with the controller the memory data or any other settings are stored into the Main unit. While operating with the control software, the memory data or any other settings are stored into the PC.

 When you want to use the edited memory data from the PC (control software) operation in the controller operation, or vice versa, cloning is required.

If your receiver seems to be malfunctioning, please check the following points before sending it to a service center.

PROBLEM	POSSIBLE CAUSE	SOLUTION	REF.
Does not turn on.	• The AC adapter is not fully seated in the power jack on the Main unit's rear panel.	• Check the connection.	p. 1
	• An AC adapter is connected to the same AC outlet with a PC, printer, etc.	• Check the connection.	p. 1
No sound comes from the speaker.	<ul style="list-style-type: none"> • Volume is too low. • The audio mute function is activated. • Squelch is set too high. • Band scope function is activated in SSB or CW mode. 	<ul style="list-style-type: none"> • Right click [AF GAIN]. • Push [MUTE] to turn the mute function OFF. • Set the squelch level to the threshold. • Pause or cancel the band scope function in SSB or CW mode. 	<p>p. 52</p> <p>p. 56</p> <p>p. 53</p> <p>p. 98</p>
Sensitivity is low and only strong signals are audible.	<ul style="list-style-type: none"> • Antenna feedline or the antenna connector has a poor contact or is short circuited. • Squelch attenuator function is activated. 	<ul style="list-style-type: none"> • Check, and if necessary, replace the feedline or solder the antenna connector again. • Push [ATT] to turn the Attenuator function OFF. 	<p>p. 1</p> <p>p. 59</p>
Frequency cannot be set via the PC key board.	• The receiver screen is not selected.	• Click anywhere in the receiver screen first, then input the frequency.	p. 48
Program scan does not operate.	<ul style="list-style-type: none"> • The squelch is open. • The start and end frequencies are the same. 	<ul style="list-style-type: none"> • Set the squelch to the threshold point. • Set the different frequencies. 	<p>p. 53</p> <p>p. 71</p>
Memory scan does not operate.	<ul style="list-style-type: none"> • The squelch is open. • Only 1 memory channel is programmed or other channels are set as skip channel. 	<ul style="list-style-type: none"> • Set the squelch to the threshold point. • Program other memory channels or cancel the memory skip function in the desired channels. 	<p>p. 53</p> <p>pgs. 70, 86</p>
The Communication error occurs after launching the IC-PCR1500_2500 program.	<ul style="list-style-type: none"> • The computer does not recognize the connected Main unit. • The protector circuit of the power supply is activated. 	<ul style="list-style-type: none"> • Launch the program after approx. 20 sec. has passed. • Use the supplied AC adapter, or a stabilized power supply with large capacity. 	<p>p. 27</p> <p>pgs. 1, 2</p>

18 SPECIFICATIONS AND OPTIONS

■ Specifications

◆ GENERAL

• Frequency coverage (MHz)

U.S.A.	: 0.010000–809.999999 *1, *2
	851.000–866.999999
	896.000–1300.000000
	1300.000001–1810.999999 *1
	1852.000–1867.999999 *1
	1897.000–2305.899999 *1
	2357.000–2811.999999 *1
	2853.000–2868.999999 *1
	2898.000–3109.799999 *1, *2
	3136.000–3154.799999 *1, *2
	3181.000–3299.999999 *1, *2
France	: 0.010000–29.999999 *1, *2
	50.200–51.200000
	87.500–107.999999
	144.000–146.00000
	430.000–440.00000
	1240.000–1300.00000

Other than above

: 0.010–3299.999999 *1, *2

*1 : For IC-PCR2500/R2500. Available on Main band only. Sub band does not cover outside of frequency range; 50 to 1300.000000 MHz.

*2 : Guaranteed: 0.495–3000.000 MHz range only

• Mode : FM, AM, WFM, USB *1, LSB *1, CW *1
DV *1, *2, P25 *1, *3

*1 : For IC-PCR2500/R2500. Available on Main band only.

*2 : For IC-PCR2500/R2500. Available when optional UT-118 is installed.

*3 : For IC-PCR2500/R2500.

Available when optional UT-122 is installed depending on versions.

• Number of memory channels

Main unit : 2600

Controller [R1500/R2500]

: 1100 (incl. 100 scan edges)

• Tuning steps

: 1 Hz*, 10 Hz, 20 Hz, 50 Hz, 100 Hz,
500 Hz, 1 kHz, 2.5 kHz, 5 kHz, 6.25 kHz,
8.33 kHz, 9 kHz, 10 kHz, 12.5 kHz,
15 kHz, 20 kHz, 25 kHz, 30 kHz, 50 kHz,
100 kHz, 125 kHz, 150 kHz, 200 kHz,
500 kHz, 1 MHz, 10 MHz*, USER TS*

*PC operation only

• Operating temperature range

PC operation : 0°C to +60°C; +32°F to +140°F

Controller operation [R1500/R2500]

: -10°C to +60°C; +14°F to +140°F

• Frequency stability: ±3 ppm (-10°C to +60°C)

• Power supply requirement : 12.0 V DC ±15%

• Current drain (at 12.0 V DC: approx.)

[1500]

While using controller (R1500): plus 50 mA with below current value.

Power ON : Standby 650 mA (typical)

Max. audio Less than 1.2 A

Power OFF : PC (USB VBAS-ON) 550 mA (typical)

PC (USB VBAS-OFF) 15 mA (typical)

Controller (R1500) 15 mA (typical)

[2500]

While using controller (R2500): plus 110 mA with below current value.

Single band : Standby 650 mA (typical)

Max. audio Less than 1.2 A

Dualwatch : Standby 850 mA (typical)

Max. audio Less than 1.5 A

Power OFF : PC (USB VBAS ON) 550 mA (typical)

PC (USB VBAS OFF) 15 mA (typical)

Controller (R2500) 15 mA (typical)

• Antenna connector : BNC (50 Ω)

• Dimensions (proj. not included)

Main unit

: 146(W) × 41(H) × 206(D) mm

5¼(W) × 1½(H) × 8½(D) in

Controller

[R1500] : 111(W) × 40(H) × 26.5(D) mm

4¾(W) × 1½(H) × 1½(D) in

[R2500] : 140(W) × 50(H) × 27.5(D) mm

5½(W) × 1¾(H) × 1½(D) in

• Weight (approx.)

Main unit

[1500] : 1.2 kg; 2 lb 10 oz

[2500] : 1.35 kg; 2 lb 15 oz

Controller

[R1500] : 0.2 kg; 7¼ oz

[R2500] : 0.25 kg; 8¼ oz

◆ RECEIVER

• Receive system :

Triple-conversion superheterodyne and down converter

• Intermediate frequencies :

1st: 266.700 MHz, 2nd: 10.700 MHz

3rd: 450 kHz (except for WFM mode)

- Sensitivity:
 - FM (1 kHz/3.5 kHz Dev.; 12 dB SINAD)
 - 28.000–29.999 MHz : Less than 0.63 μ V
 - 30.000–49.999 MHz : Less than 0.63 μ V
 - 50.000–239.999 MHz : Less than 0.5 μ V
 - 240.000–279.999 MHz : Less than 0.5 μ V
 - 280.000–299.999 MHz : Less than 0.5 μ V
 - 300.000–699.999 MHz : Less than 0.5 μ V
 - 700.000–1300.000 MHz : Less than 0.63 μ V
 - 1300.000001–2299.999 MHz: Less than 5.6 μ V
 - 2300.000–3000.000 MHz : Less than 18 μ V
 - WFM (1 kHz/52.5 kHz Dev.; 12 dB SINAD)
 - 50.000–699.999 MHz : Less than 1.4 μ V
 - 700.000–1300.000 MHz : Less than 1.8 μ V
 - 1300.000001–2299.999 MHz: Less than 18 μ V
 - 2300.000–3000.000 MHz : Less than 56 μ V
 - AM (1 kHz/30% MOD.; 10 dB S/N)
 - 0.495–1.799 MHz : Less than 25 μ V
 - 1.800–14.999 MHz : Less than 2.5 μ V
 - 15.000–49.999 MHz : Less than 2.5 μ V
 - 50.000–299.999 MHz : Less than 2 μ V
 - 300.000–699.999 MHz : Less than 2 μ V
 - 700.000–1300.000 MHz : Less than 2.5 μ V
 - SSB/CW (10 dB S/N)
 - 0.495–1.799 MHz : Less than 5 μ V
 - 1.800–14.999 MHz : Less than 0.5 μ V
 - 15.000–49.999 MHz : Less than 0.5 μ V
 - 50.000–699.999 MHz : Less than 0.4 μ V
 - 700.000–1300.000 MHz : Less than 0.5 μ V
- Squelch sensitivity (threshold) :
 - FM (1 kHz/3.5 kHz Dev.)
 - 28.000–29.999 MHz : Less than 0.63 μ V
 - 30.000–49.999 MHz : Less than 0.63 μ V
 - 50.000–239.999 MHz : Less than 0.5 μ V
 - 240.000–279.999 MHz : Less than 0.5 μ V
 - 280.000–299.999 MHz : Less than 0.5 μ V
 - 300.000–699.999 MHz : Less than 0.5 μ V
 - 700.000–1300.000 MHz : Less than 0.63 μ V
 - 1300.000001–2299.999 MHz: Less than 5.6 μ V
 - 2300.000–3000.000 MHz : Less than 18 μ V
 - WFM (1 kHz/52.5 kHz Dev.)
 - 50.000–699.999 MHz : Less than 5.6 μ V
 - 700.000–1300.000 MHz : Less than 7.1 μ V
 - 1300.000001–2299.999 MHz: Less than 71 μ V
 - 2300.000–3000.000 MHz : Less than 220 μ V
 - AM (1 kHz/30% MOD.)
 - 0.495–1.799 MHz : Less than 18 μ V
 - 1.800–14.999 MHz : Less than 0.89 μ V
 - 15.000–49.999 MHz : Less than 0.89 μ V
 - 50.000–299.999 MHz : Less than 0.71 μ V
 - 300.000–699.999 MHz : Less than 0.71 μ V
 - 700.000–1300.000 MHz : Less than 0.89 μ V
 - SSB/CW
 - 0.495–1.799 MHz : Less than 71 μ V
 - 1.800–14.999 MHz : Less than 7.1 μ V
 - 15.000–49.999 MHz : Less than 7.1 μ V
 - 50.000–699.999 MHz : Less than 5.6 μ V
 - 700.000–1300.000 MHz : Less than 7.1 μ V
- Selectivity (typical) :
 - SSB/CW/AM : More than 2.8 kHz/–6 dB
 - SSB/CW/AM/FM : More than 6.0 kHz/–6 dB
 - AM/FM : More than 15 kHz/–6 dB
 - AM/FM/WFM : More than 50 kHz/–6 dB
 - WFM : More than 230 kHz/–6 dB
- AF output power (at 12.0 V DC) : More than 0.5 W at 10% distortion with an 8 Ω load
- Ext. speaker connector : 2-conductor 3.5 (d) mm ($\frac{1}{8}$ "/8 Ω)
- Packet connector : 2-conductor 3.5 (d) mm ($\frac{1}{8}$ ")
- Data connector : 3-conductor 2.5 (d) mm ($\frac{1}{10}$ ")
- IF shift variable range : More than ± 1.2 kHz

Options

UT-106 DSP UNIT

Provides AF DSP functions such as noise reduction and auto notch.

CP-12L CIGARETTE LIGHTER CABLES

For operation via a 12 V cigarette lighter socket.

OPC-254L DC POWER CABLES

For operation via an external power supply.

SP-10 EXTERNAL SPEAKER

For mobile or base operation. Cable length: 1.5 m; 4.9 ft

[For IC-PCR2500/IC-R2500]

UT-108 DTMF DECODER UNIT

Provides DTMF decode function for sub band.

UT-118 DIGITAL UNIT

Provides DV (digital) mode operation.

UT-122 DIGITAL UNIT

Provides P25 (digital) mode operation.



We Icom Inc. Japan
1-1-32, Kamiminami, Hirano-ku
Osaka 547-0003, Japan

Declare on our sole responsibility that this equipment complies with the essential requirements of the Radio and Telecommunications Terminal Equipment Directive, 1999/5/EC, and that any applicable Essential Test Suite measurements have been performed.

Kind of equipment: COMMUNICATIONS RECEIVER

Type-designation: IC-PCR1500/R1500

Version (where applicable):

This compliance is based on conformity with the following harmonised standards, specifications or documents:

- i) Article 3.1a EN 60950-1 (2001):A11:2004
- ii) Article 3.1b EN 301489-1 and EN 301489-15
- iii) Article 3.2 EN 301 783-2
- iv) _____
- v) _____

DECLARATION OF CONFORMITY



Düsseldorf 5th Dec.2005
Place and date of issue

Icom (Europe) GmbH
Himmelgeister straÙe 100
D-40225 Düsseldorf

Authorized representative name
H. Ikegami
General Manager

Signature

Icom Inc.



We Icom Inc. Japan
 1-1-32, Kamiminami, Hirano-ku
 Osaka 547-0003, Japan

Declare on our sole responsibility that this equipment complies with the essential requirements of the Radio and Telecommunications Terminal Equipment Directive, 1999/5/EC, and that any applicable Essential Test Suite measurements have been performed.

Kind of equipment: COMMUNICATIONS RECEIVER

Type-designation: IC-PCR2500/R2500

Version (where applicable): _____

This compliance is based on conformity with the following harmonised standards, specifications or documents:

- i) Article 3.1a EN 60950-1 (2001):A11:2004
 - ii) Article 3.1b EN 301489-1 and EN 301489-15
 - iii) Article 3.2 EN 301 783-2
- _____

DECLARATION OF CONFORMITY



Düsseldorf 24th Mar.2006
 Place and date of issue

Icom (Europe) GmbH
Himmelgeister straÙe 100
D-40225 Düsseldorf

Authorized representative name
H. Ikegami
General Manager

Signature

Icom Inc.

Count on us!

IC-PCR1500

#22 Europe

<Intended Country of Use>

GER FRA ESP SWE

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