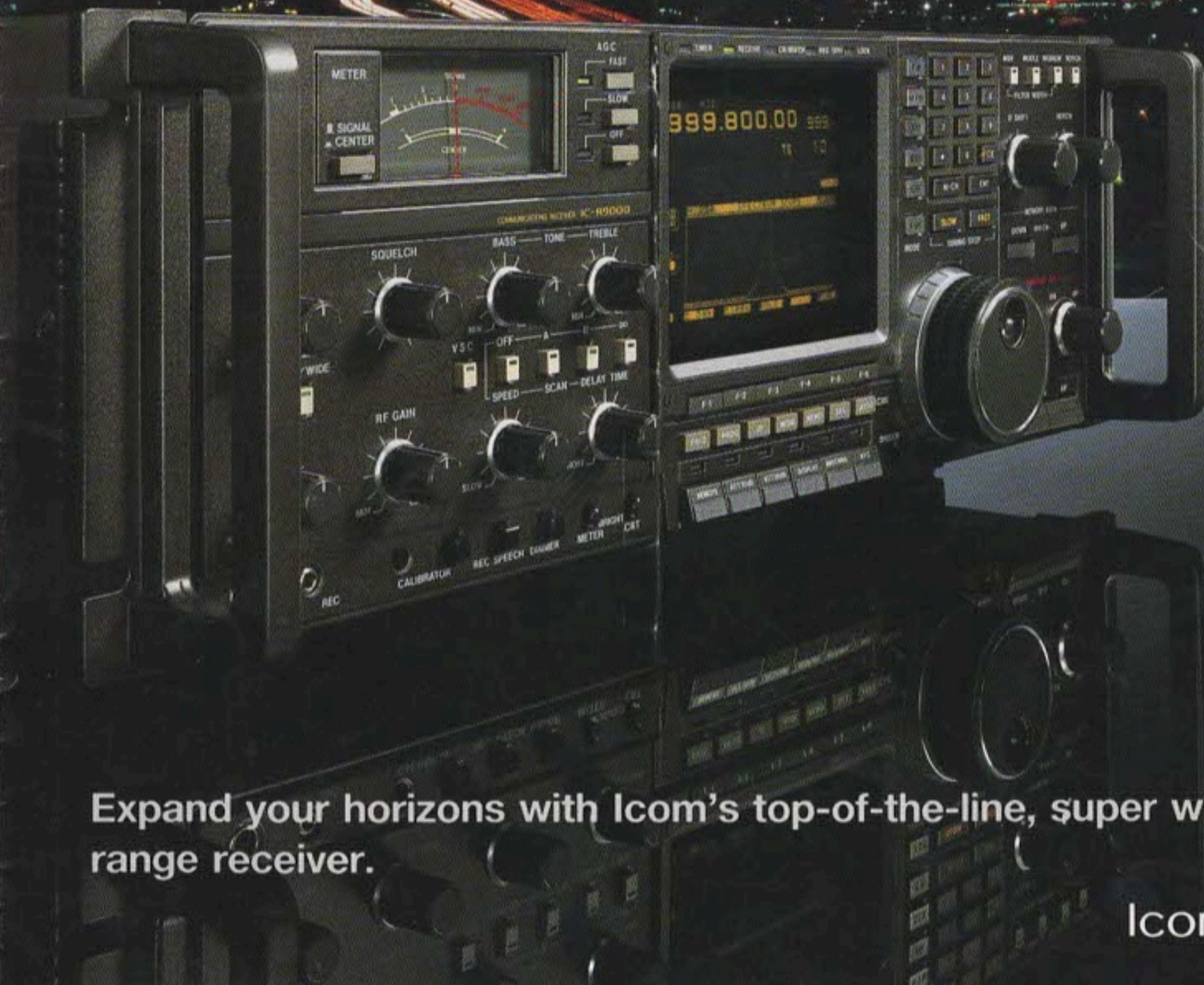# IC-R9000

ỉСОМ

Expand your horizons with Icom's top-of-the-line, super wide range receiver.

Icom Inc.

Listen to the world in detail.

The world is now at your fingertips with Icom's elite new IC-R9000, a communications receiver truly in a professional class all its own. With the IC-R9000's continuous, all-mode, super wide-band range of 100 kHz to 1999.8 MHz, Icom's unique CRT display, and numerous scan functions, far-flung, distant spots on the globe are now within earshot.
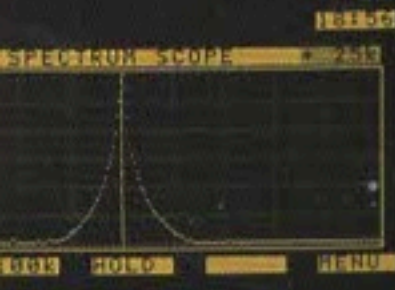
COMMUNICATIONS RECEIVER
IC-R9000

CALIBRATOR   REC SPH   LOCK

800.00 999 CH

BANK

TS   10 Hz

SPECTRUM SCOPE   *2-13

HOLD   MENU

FM   1   2   3

W FM   4   5   6

AM   7   8   9

SSB   *   0   CE

CW   M-CH   ENT

FSK   SLOW   FAST

MODE   TUNING STEP

F-3   F-4   F-5   F-6

MODE   MEMO   SEL   AUTO   SCAN

T20dB   DISPLAY   ANTENNA   AFC   SPEECH   LOCK

WIDE   MIDDLE   NARROW   NOTCH

FILTER WIDTH

IF SHIFT   NOTCH

MEMORY BANK

DOWN   100 CH   UP

MEMORY CH

WRITE   DN   UP

CLEAR

DOWN   MHz   UP

The advanced worldwide information receiver.

FULL, CONTINUOUS 100 kHz~1999.8 MHz* COVERAGE

Tune into world news agencies that use FAX and RTTY, aircraft, marine and business contacts, emergency services, government, satellite, amateur, CB (Citizen's Band) and many other stations near your home or on the other side of the planet. With an advanced range like this, you will have no trouble hearing the rich diversity of the world.

* Some versions do not cover the entire range. Refer to frequency coverage in specifications.

ALL MODE CAPABILITY

The IC-R9000's versatile receive capability allows you to receive many different mode signals.

Listen to AM used by broadcasting stations and VHF air band. Use SSB (USB, LSB) and CW to receive marine band, aircraft and amateur stations on shortwave. Tune into many businesses, emergency services, government and amateur stations using FM on VHF and UHF. Or use wide FM to receive FM broadcasts and TV stations. FSK (frequency shift keying) is also built in for receiving RTTY from news agencies.

Watch the IC-R9000? Yes! Using your TV set or video recorder with a video input connector, you can watch VHF and UHF TV broadcasts.* The built-in CRT display shows NTSC system video signals from the video input connector. The IC-R9000 also receives ATV (amateur television) on both the 430 and 1200 MHz amateur bands.*

* NTSC or PAL system. Some versions do not have these capabilities.

MULTI-FUNCTIONAL CRT DISPLAY

Icom's unique, state-of-the-art multi-functional CRT display is built into the IC-R9000. The display is superior to all conventional-type spectrum scopes on the market. Receive frequencies, modes, and additional useful data are displayed for your operating convenience. The CRT display has the following advanced features:

• SPECTRUM SCOPE FOR VISUAL SIGNAL CONFIRMATION

You can use the spectrum scope like a professional spectrum analyzer. At a glance, you can observe the signal spectrum of nearby receive frequencies. The span of the spectrum scope can be selected for ±25, ±50 or ±100 kHz according to your needs.

• MEMORY LIST

Using the memory list function, you can see the contents of 10 memory channels at once. Memory channels can be scrolled for viewing other memory channels.

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This function allows you to monitor RTTY or packet radio on the CRT display. ASCII (RS-232C level) code data from the RTTY terminal unit or TNC (Terminal Node Controller) can be monitored.
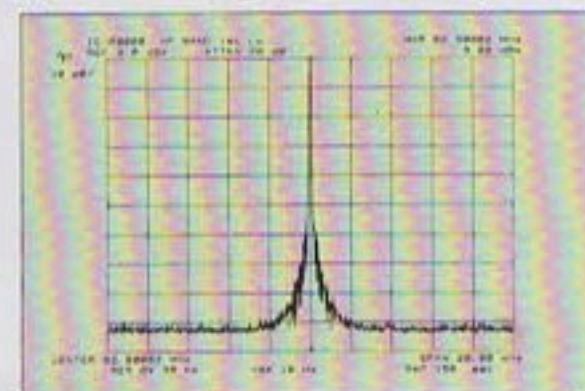
WIDE VARIETY OF TUNING STEPS

10 Hz, 100 Hz, 1 kHz, 5 kHz, 9 kHz, 10 kHz, 12.5 kHz, 20 kHz, 25 kHz or 100 kHz steps are provided for operation with all stations. The IC-R9000's MHz up and down switches allow you to change the receive frequency in 1 MHz steps. An automatic dial click function is included for tuning convenience when using tuning steps greater than 5 kHz. This function is convenient for selecting FM mode stations.
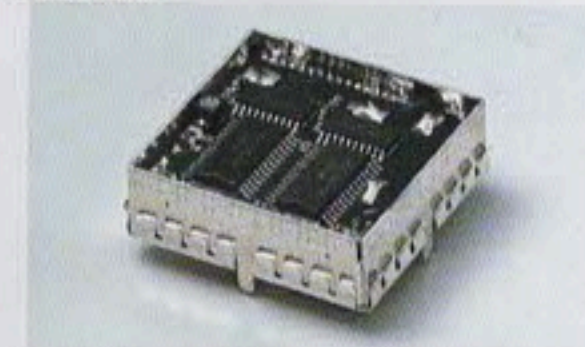
ICOM'S EXCLUSIVE DDS SYSTEM

Icom's state-of-the-art DDS (Direct Digital Synthesizer) System is built into the PLL circuits. The circuit ensures high-speed PLL lockup times and tremendous high-speed scanning. Minimum tuning steps of 10 Hz for frequency coverage make SSB, CW and FSK tuning easy.
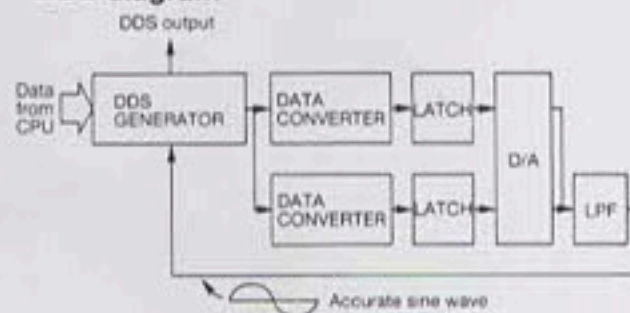
• PLL C/N characteristics (when receiving at 14.1000 MHz)

• DDS unit

• DDS diagram

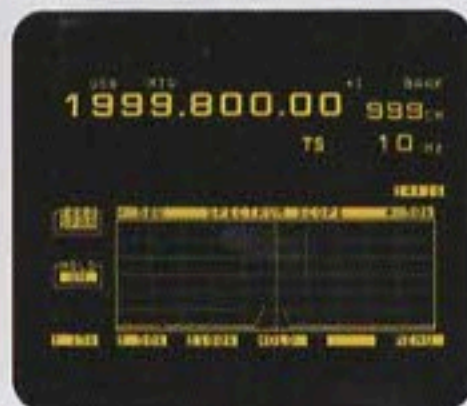
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(1) Menu 1 screen

Calls up the scan condition screen, memory list screen, spectrum scope screen or the clock and timer screen.

(2) Menu 2 screen

Calls up terminal monitor screen, CI-V condition screen, FSK mode setting screen or bank status screen.

(3) Spectrum scope screen

Performing like a professional spectrum analyzer, this screen allows you to observe the signal spectrums of ±25, ±50 or ±100 kHz around a receive frequency. The spectrum scope operates even while scanning.

(4) Daily timer set screen

Displays the on/off conditions for six programmed daily timers. Programmable contents you want to receive in such as the day, on/off time and memory channel are displayed.
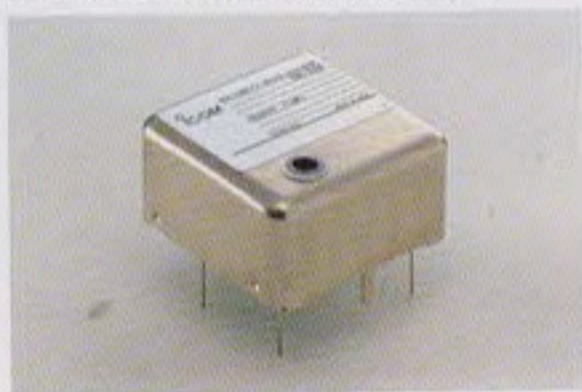
Full, super wideband range coverage in all modes.

SUPER HIGH FREQUENCY STABILITY — EVEN IN THE GHz RANGE!

Another Icom achievement is the IC-R9000's very high frequency stability in the difficult-to-manage GHz range. Frequency stability is ±0.25 ppm* in ranges greater than 30 MHz and ±25 Hz* in ranges less than 30 MHz.

* 0°C~+50°C: +32°F~+122°F

• Reference crystal oscillator CR-228

DIRECT KEYBOARD ENTRY

Receive frequencies and memory channels can be selected via the keyboard. This function is very convenient when the desired frequency or memory channel number is already known.

STORES ALL REQUIRED FREQUENCIES — 1000 MEMORY CHANNELS

A total of 1000 memory channels store frequencies, modes, filter width and tuning steps. 1000 memory channels are grouped in 10 memory banks. You can use different memory banks according to station type, mode, frequency ranges, or whatever your preference is. And up to eight character notes can be written on all memory channels for your reference.

EXCELLENT SENSITIVITY IN ALL FREQUENCIES

Advanced RF circuits ensure an improved dynamic range of 103.5 dB.*[1] The IC-R9000 can receive desired weak signals even when strong signals appear on nearby frequencies.

For frequencies higher than 30 MHz, the front end circuits have tuned bandpass filters with GaAs FETs and other high-performance circuits.
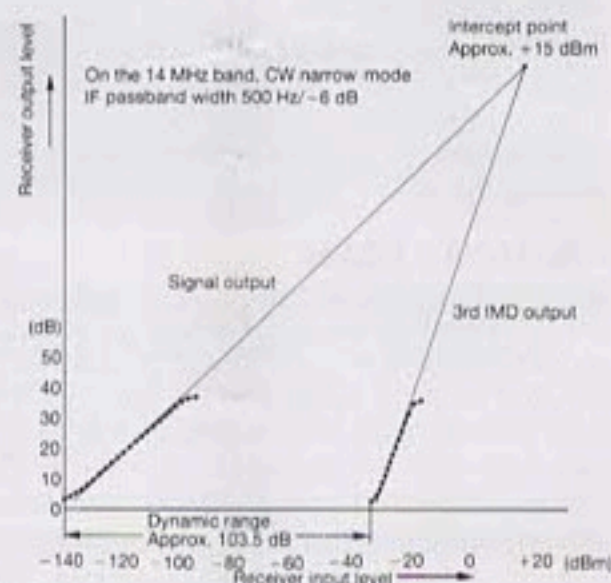
Sensitivity is less than $0.16\mu V$*[2] for 10 dB S/N (SSB, CW, FSK) and less than $0.5\mu V$*[3] for 12 dB SINAD (FM). See what high sensitivity in all frequencies is like with the IC-R9000.

*[1] On 14 MHz band, CW-narrow mode, IF passband width 500 Hz/−6 dB.
*[2] 1.80000~29.99999 MHz
*[3] 30.00000~999.99999 and 1240.00000~1299.99999 MHz

• Dynamic range characteristics

Intercept point Approx. +15 dBm

On the 14 MHz band, CW narrow mode IF passband width 500 Hz/−6 dB

Signal output

3rd IMD output

Dynamic range Approx. 103.5 dB

CONVENIENT MEMORY EDITOR FUNCTION

The advanced, super convenient memory editor function answers that nagging question: "With 1000 memory channels, why can't the IC-R9000 move programmed memories to more convenient locations?" It can. The editor function allows you to easily move, copy, or delete the memories at any time on the CRT display.
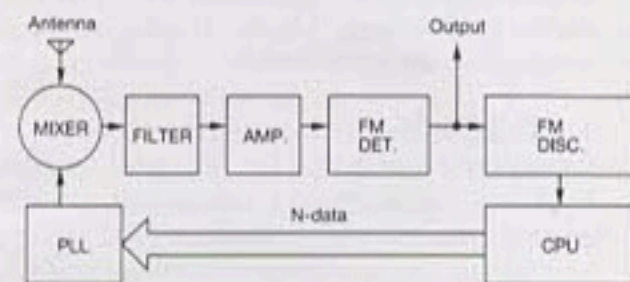
DUAL CLOCKS AND TIMER FUNCTIONS

A 24-hour system of dual clocks with two kinds of sleep timers and six different daily timers are included. Timer settings can be performed very easily using the CRT display.
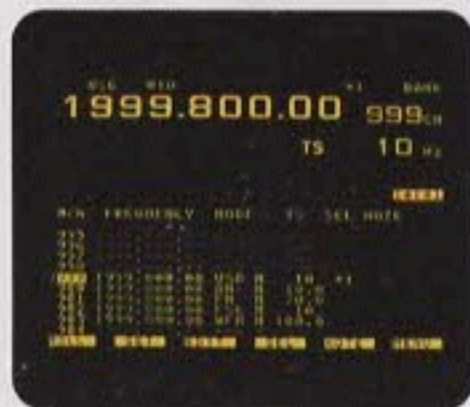
AFC FUNCTION TO COMPENSATE FOR FREQUENCY DRIFT

Icom's advanced AFC function automatically and immediately tunes to the frequency of the signal in each FM mode. This is especially useful, for example, when receiving amateur stations in the 1200 MHz band. This function also compensates for frequency shifts in weather satellite signals due to the Doppler Effect.

• AFC diagram

(5) **Memory list screen**

Displays 10 of 1000 memory channels at one time. Desired memory contents can be conveniently found and confirmed.

(6) **Memory edit screen**

An advanced function for editing any of the 1000 memory channels. Can be used to copy, move or clear any memory channel.

(7) **Scan condition screen**

Each scan condition can be immediately checked and set on the CRT display.

(8) **Bank status screen**

Sets memory bank status such as memory scan edges or priority channels in a memory bank.

Scans quickly and effectively.

MULTI-SCAN FUNCTIONS

- Programmed scan
- △F scan
- Priority scan
- Memory scan
- Selected mode memory scan
- Selected number memory scan
- Auto memory write scan

MULTI-SCAN FUNCTIONS
The IC-R9000 is equipped with numerous scan functions to search desired stations quickly in wide frequency bands. The scan speed is very fast — 13 channels per sec. or more. Also, the scan speed is continuously adjustable to suit your operating needs.

• PROGRAMMED SCAN
Repeatedly scans between two programmable scan edges. Up to 10 groups of scan ranges can be specified.

• △F SCAN
Repeatedly scans ±2.5, ±5, ±10, ±20 or ±50 kHz pre-selected frequency widths around your receiving frequency. This scan function is very useful for searching signal details in a narrow frequency range.

• PRIORITY SCAN
Monitors the desired memory channels while you listen to your main operating channel. Your most-required memory channel can be programmed as a priority channel for each memory bank.

• MEMORY SCAN
Repeatedly scans all memory channels or a pre-programmed memory channel range (i.e., memory channels 155~238). In addition, required memory banks can be specified for each memory bank. For example, only channels 100~199 are searched. A total of 11 memory channel ranges — 10 memory banks plus an ignored memory bank — can be set.

• SELECTED MODE MEMORY SCAN
Scans memory channels which contain the same specified mode.

• SELECTED NUMBER MEMORY SCAN
A group number (*1~*9) can be assigned for all 1000 memory channels. Searches only memory channels that contain the same group number.

• AUTO MEMORY WRITE SCAN
Scans between two programmable scan edges. When a signal is received, the frequency is automatically written in memory channels 900~999 sequentially. The received date times are also written in the memory note area.

• VSC (Voice Scan Control) FUNCTION
The scan resumes immediately when it has paused for signals that do not include voice components. Unlike conventional receivers, the advanced IC-R9000 ignores beat signals and noise.

SELECTABLE SCAN RESUME CONDITIONS
The IC-R9000 provides versatile scan resume and scan clear conditions when a signal is received: pauses until a signal disappears, pauses for pre-selected time, and pauses for the mixed condition of "signal disappears" and "adjustable time."

The resume time can be pre-selected and varied freely between approx. 3~20 sec. according to your purposes.

CONDI-TION / FUNC-TION	When a signal appears	Within pre-selected time		After pre-selected time	
		When the signal continues	When the signal disappears	When the signal continues	When the signal disappears
PAUSE	Pauses	Still pauses	Resumes approx. after 3 sec.	Still pauses	Resumes approx. after 3 sec.
TIMER-A	Pauses	Still pauses	Still pauses	Resumes	Resumes
TIMER-B	Pauses	Still pauses	Resumes approx. after 3 sec.	Resumes	Resumes
SCAN CLEAR	Aborts	Aleady aborted	Already aborted	Already aborted	Already aborted

Built for consistently high performances.
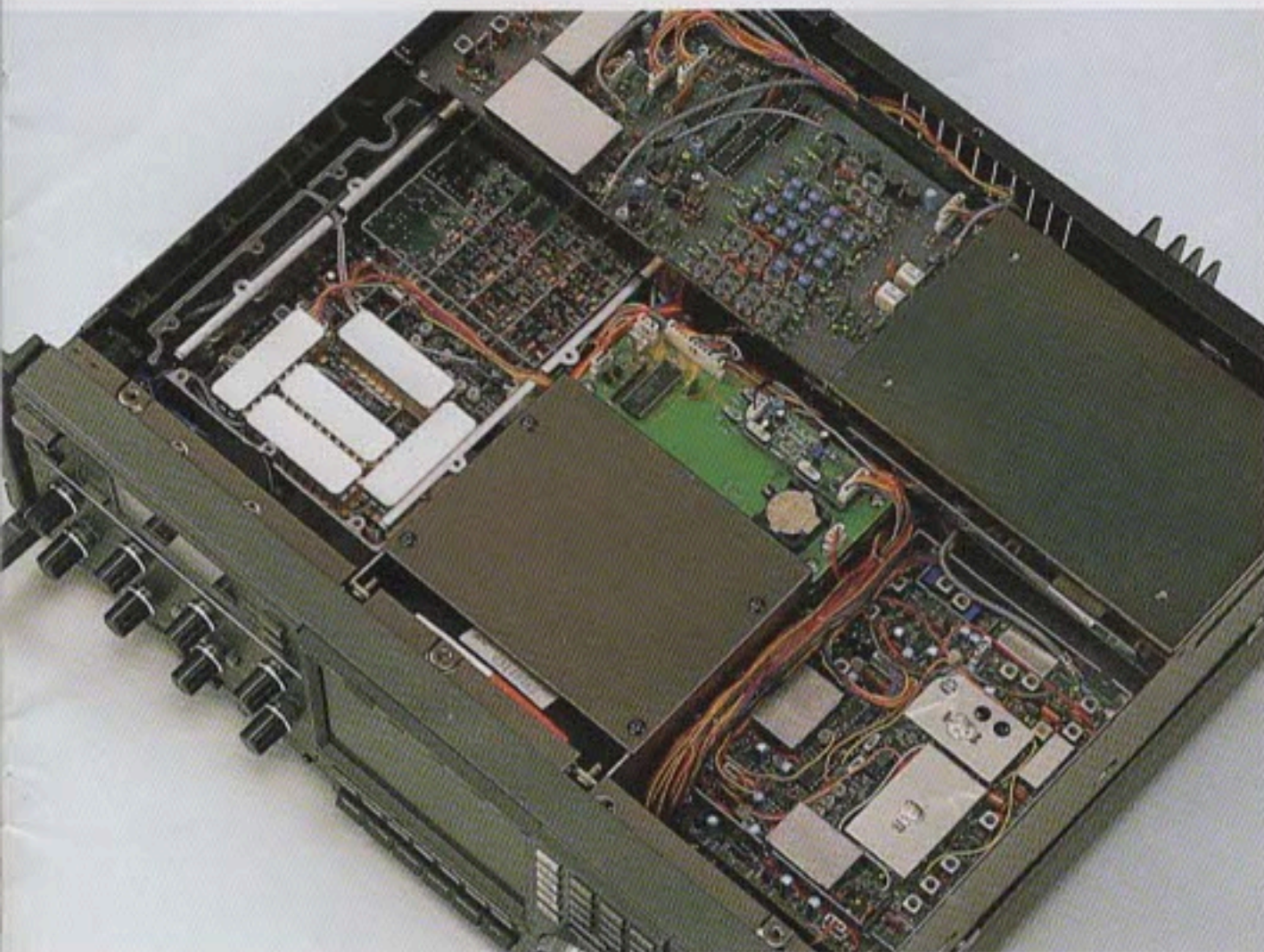
COMPLETE INTERFERENCE AND NOISE ELIMINATION CIRCUIT

The IF shift circuit shifts the center frequency of the passband to effectively reject nearby interfering signals in SSB, CW, FSK and AM modes.

A threshold-adjustable, width-selectable noise blanker is included for eliminating long duration pulse-type noises such as "woodpecker."

The deep notch filter can be tuned to a particular frequency in the IF passband, eliminating interfering beat signals. These functions ensure you clear reception even during crowded band conditions.

FREQUENCY READING FOR LATER REVIEW

An optional UT-36 VOICE SYNTHESIZER UNIT announces receive frequencies in English. Use the scan function while you are out for recording signals on a tape recorder. Synthesized voice readings can also be recorded for later review.

ADDITIONAL OUTSTANDING FEATURES

- A dial lock function is included to ensure that no accidental frequency changes occur.
- Combined S-meter and center meter for tuning convenience.
- All mode squelch and S-meter squelch.
- Rack mounting handles supplied for mounting with a 19-inch rack.
- Bass and treble tone controls for comfortable, enjoyable audio.
- Four antenna connectors that accept many kinds of antennas.

IMPROVED CI-V SYSTEM FOR COMPUTER CONTROL

Using an optional CT-17 CI-V LEVEL CONVERTER, many control functions such as frequency and memory channel selection can be carried out from a personal computer equipped with an RS-232C port.

AF gain control, RF gain control, squelch level control, and many other functions can also be controlled via your personal computer.
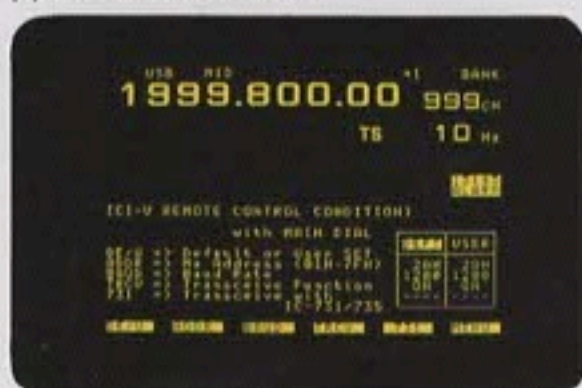
ADVANCED S-METER SQUELCH

Icom's all-mode S-meter squelch is built-in for receiving only signals stronger than the pre-set level.

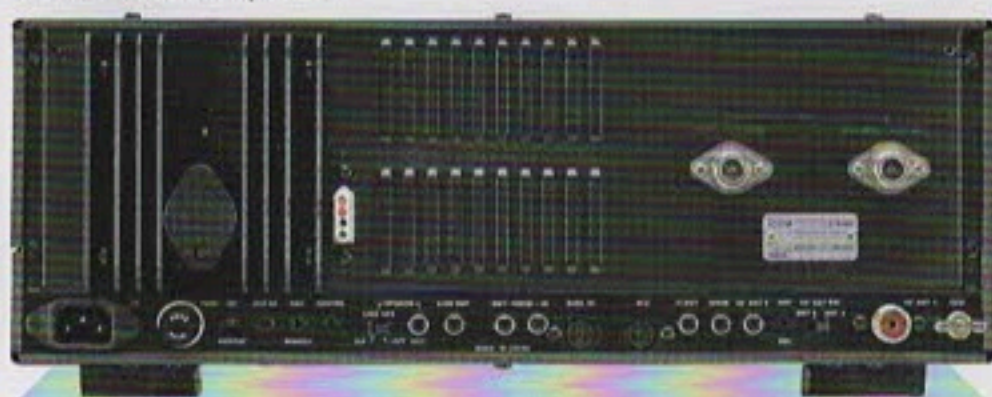## RF ATTENUATOR AGAINST STRONG SIGNALS

A 10, 20 and 30 dB level-selectable RF attenuator prevents saturation of the RF circuit from very strong signals such as broadcast station signals.

(9) CI-V condition screen

Sets the CI-V System remote control conditions.

• IC-R9000 rear panel

SPECIFICATIONS

- Frequency coverage

VERSION	FREQUENCY COVERAGE
U.S.A., Europe	0.10000~1999.80000 MHz
Australia	2.00000~ 87.49999 MHz 108.00000~1999.80000 MHz
Germany	0.15000~ 26.10000 MHz 28.00000~ 29.70000 MHz 144.00000~ 146.00000 MHz 430.00000~ 440.00000 MHz
France	0.10000~ 87.49999 MHz 108.00000~1999.80000 MHz

- Modes   : SSB (USB, LSB).
                                 CW, FSK, AM, FM. Wide FM
- Receive system   : Superheterodyne
                                 0.10000~999.99999 MHz
                                 SSB, CW. FSK   Quadruple conversion
                                 FM   Triple conversion
                                 30.00000~999.99999 MHz
                                 Wide FM   Double conversion
                                 1000.00000~1999.80000 MHz
                                 SSB, CW. FSK   Quintuple conversion
                                 FM   Quadruple conversion
                                 Wide FM   Triple conversion
- Intermediate frequencies :

Rx IF	FREQUENCY		
	0.10000~29.99999	30.00000~499.99999	500.000000~999.99999
1st	48.79376~48.80000	778.60001~778.70000	278.60001~278.70000
2nd	10.70000	10.70000	10.70000
3rd	0.45000	0.45000	0.45000
4th	10.70000	10.70000	10.70000

Unit: MHz

The above 1000.00000 MHz uses a crystal conversion system.
- Selectivity   : SSB, CW, FSK More than 2.4 kHz/−6 dB
                                 AM   More than   6 kHz/−6 dB
                                 FM   More than 15 kHz/−6 dB
                                 Wide FM   More than 150 kHz/−6 dB

- Sensitivity   : Maximum sensitivity values are indicated in
                                  each range below.

FREQUENCY (MHz)	MODE 	SSB, CW, FSK	AM	FM	Wide FM
0.10000~ 0.49999		0.5 µV	3.2 µV	—	—
0.50000~ 1.79999		1.0 µV	6.3 µV	—	—
1.80000~ 29.99999		0.16 µV	1.0 µV	—	—
30.00000~ 999.99999		0.32 µV	1.4 µV	0.5 µV	1.4 µV
1000.00000~1239.99999		0.63 µV	4.0 µV	1.0 µV	4.0 µV
1240.00000~1299.99999		0.32 µV	2.0 µV	0.5 µV	2.0 µV
1300.00000~1599.99999		0.63 µV	4.0 µV	1.0 µV	4.0 µV
1600.00000~1999.80000		1.0 µV	5.6 µV	1.4 µV	5.6 µV

10 dB S/N for SSB, CW, FSK and AM
12 dB SINAD for FM and Wide FM
The IC-R9000 receives below 29.9999 MHz in FM mode. FM specification
guaranteed 30.0000~1999.7000 MHz (except wide FM).
- Audio output power   : More than 2.5 W at 10% distortion with an
                                  8 Ω load
- Audio impedance   : 4~8 Ω
- Power supply requirement : 100~120 V AC (U.S.A. version)
                                  220~240 V AC (Australia, Europe and
                                  France versions)
                                  220 V AC (Germany version)
- Antenna impedance   : 50 Ω (unbalanced)
                                  High impedance for a long-wire antenna
- Power consumption   : Less than 110 VA
- Usable temperature range : −10 °C~+50 °C (+14 °F~+122 °F)
- Frequency stability   : 0.10000~ 29.99999 MHz ±25 Hz
                                  30.00000~1999.80000 MHz ±0.25 ppm
                                  (0 °C~+50 °C; +32 °F~+122 °F)
- Dimensions   : 424(W) × 150(H) × 365(D) mm
                                  16.7(W) × 5.9(H) × 14.4(D) in
                                  (projections not included)
- Weight   : 20.0 kg (44.1 lb)

All stated specifications are subject to change without notice or obligation.

OPTIONS

Check out Icom's full line of convenient options.

- **AH-7000** SUPER WIDEBAND OMNIDIRECTIONAL ANTENNA
  Provides super wideband coverage from 25 to 1300 MHz.
- **CT-16** SATELLITE INTERFACE UNIT
  Easy tuning for instant satellite communications with the IC-R9000 and another
  Icom transceiver.
- **CT-17** CI-V LEVEL CONVERTER
  For remote control using a personal computer equipped with an RS-232C port.

- **SP-20** EXTERNAL SPEAKER WITH AUDIO FILTERS
  High performance speaker with audio filters for greater sound quality. Size and style
  match the IC-R9000.
- **HP-2** COMMUNICATION HEADPHONES
  Provides clear audio in noisy environments.
- **UT-36** VOICE SYNTHESIZER UNIT
  Announces the displayed frequency in English.

unique CRT display, and numerous scan func-
tions, far-flung, distant spots on the globe are
now within earshot.

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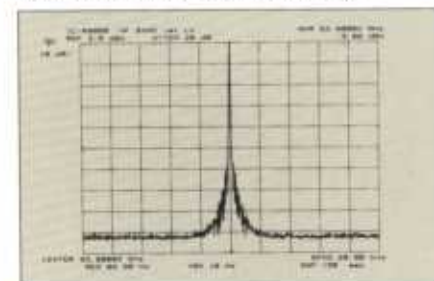
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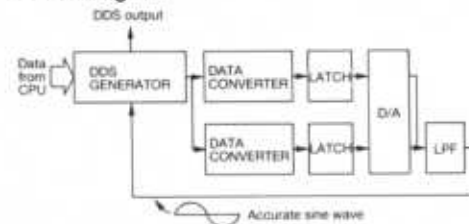
• PLL C/N characteristics (when receiving at 14.1000 MHz)

• DDS unit

• DDS diagram

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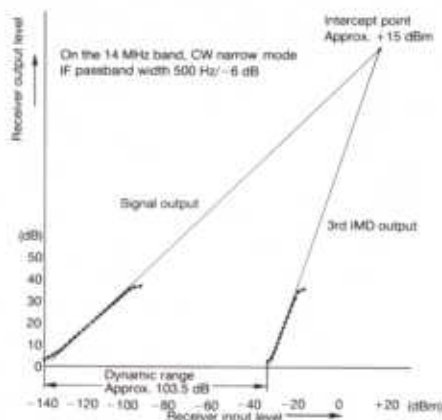
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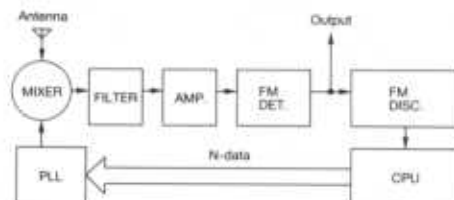
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• **AFC diagram**

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An advanced function for editing any of the 1000 memory channels. Can be used to copy, move or clear any memory channel.

(7) Scan condition screen

Each scan condition can be immediately checked and set on the CRT display.

(8) Bank status screen

Sets memory bank status such as memory scan edges or priority channels in a memory bank.

ALL THE SIGNALS YOU NEED.
ICOM'S HIGH-TECH MARVEL!

Broaden your horizons with the world's ultimate receiver: the IC-R9000.
Features ahead of the rest give you the innovative edge on all frequencies.

- **Superior reliability.**
- **Super wideband coverage: 30 kHz~2 GHz.***
- **5-in CRT display for central information indication.**
- **Spectrum scope capability.**
- **Memory editing function.**
- **1000 memory channels.**
- **TV video signal receive capability.**
- **SSB, CW, FSK, AM, FM and wide-FM modes.**
- **Exclusive DDS System.**
- **IF shift, notch filter and noise blanker.**
- **CI-V System for computer control.**

* Specifications guaranteed 100 kHz~ 1999.8 MHz. Some versions do not cover the entire frequency range.

There is no better way to put an ear to the world than with the IC-R9000, a truly professional communications receiver. Delivering coverage of 30 kHz~2 GHz.* in all modes, the IC-R9000 represents the full state-of-the-art receive capability. Points far and wide on the globe are now within earshot.

Unique to this receiver is a CRT display for central information indication. This facilitates signal analysis on the spectrum scope as well as editing for any of the 1000 memory channels. Of course, timer and scan conditions can be confirmed visually and conveniently. Moreover, by connecting an RTTY terminal unit, characters received in ASCII code are indicated on the CRT display. These features are superior to those of conventional products.

Packed into this receiver are more functions and technology than can be explained in this limited space. To find desired stations quickly, 7 advanced scan functions — programmed, ΔF, priority, memory, selected mode memory, selected number memory and auto memory write — are included. For high-speed scanning, the advanced DDS (Direct Digital Synthesizer) System is built into the PLL circuit. Interference and noise can be eliminated with the IF shift, notch filter and noise blanker. The advanced CI-V System allows many function controls via your computer.

COMMUNICATIONS RECEIVER
IC-R9000