



## ID-5100A

## **Innovation** and **Mobility Taken to the Next Level**



Touch Screen Operation

DV/DV Dualwatch

Integrated GPS Receiver

DV/FM Repeater List
D-STAR DV Mode
Bluetooth®

Didecoodii

Android™

# Innovation and Mobility Taken to the Next Level



### **DV/FM Repeater List Function**

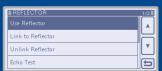
The DV/FM repeater list function assists you accessing nearby repeaters, even in areas you are visiting for the first time. The function searches for a nearby repeater using the repeater memories with the GPS position information.

\* To use the automatic repeater list function, the position data of the repeater is required. The ID-5100A will be shipped with a limited number of repeater memories preprogrammed.

#### **Dplus Reflector Linking**

Dplus reflector link commands are added to the DR function to

allow easy reflector operation. Use Reflector, link/unlink to Reflector, echo test and repeater information commands are selectable.



Reflector commands example

#### SD Card Slot for Voice and Data Storage

When used with an SD card, the SD card can store various contents including voice memory, DV auto reply message, TX voice message, QSO log, RX history log and GPS log data. Memory channels, repeater memories and other personal settings can be saved to the SD card and can be loaded to the transceiver.

#### VS-3 Bluetooth® Headset

The optional Bluetooth® headset, VS-3 provides hands-free communication and can remotely control the ID-5100A with three programmable buttons. Providing you with convenient communication in a vehicle.

\* Optional UT-133/A Bluetooth® unit must be installed in the ID-5100A.







Bluetooth® unit, UT-133/A (option)

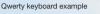
Bluetooth® headset, VS-3 (option)

## **Intuitive Touch Screen Operation**

The intuitive touch screen interface provides quick and smooth operation. The large 5.5 inch display (320 × 128 pixels) responds naturally

to the touch allowing you to change settings, enter frequencies, edit memory channels with ease.







Vehicle installation example (Using optional MBF-1 mount base and MBA-2 controller bracket)

## **DV/DV** Dualwatch

The ID-5100A can receive both FM/FM and FM/DV mode signals simultaneously. Two DV mode signals can be monitored for receive on either channel. You can check other

repeaters or other channel activities while waiting for the main repeater.

Main band audio has priority, if two DV signals come in at the same time.



FM/DV dualwatch (DR function) example



F=1 V/M CALL MW SCAN MONI

FM/DV dualwatch example

## **Integrated GPS Receiver**

The ID-5100A has an integrated GPS receiver in the controller and shows own position, course, speed and altitude on the display. The GPS position information can be used for exchanging position reports, tracing the GPS log and searching for nearby repeater sites.



Received position information example

## RS-MS1A Android™ Application (Free download application from Google Play™)

The RS-MS1A allows you wirelessly connect to the ID-5100A and remotely set DR functions, link with a map application and send/receive messages over the DV mode. In addition, pictures taken by the Android™ device can be transmitted in the DV Fast Data mode or DV mode.

\* Optional UT-133/A Bluetooth® unit must be installed in the ID-5100A Some functions may not work properly, depending on Android™ phones and devices used.



DR function setting example

#### **DV Fast Data Mode\***

By using data in place of voice frames, the ID-5100A can transfer data 3.5 times faster (3480 bps) than in the conventional DV mode (with voice).

\* The DV Fast Data mode is not compatible with the DV mode low-speed data communication

Steps to send a picture over the DV Fast Data mode



Transmit the photo over

#### **Other Features**

- Enhanced D-PRS functions with object, position, items and weather
- Convenient memory contents management using CSV format
- Speech function announces operating frequency, mode and received callsign (DV mode)
- Independent main, volume and SQL knobs for A/B bands
- AM airband dualwatch
- CS-5100, programming software supplied
- 50W output power on both VHF and UHF bands
- Weather channel with weather alert function (USA version only)
- Auto repeater function (USA version only)
- 1500 (50 groups) repeater list entries, 300 call sign memories and
- · Split tone functions in the analog mode



VHF/UHF DUAL BAND DIGITAL TRANSCEIVER

-5100

## D-510

#### **SPECIFICATIONS**

		GENERAL	
Frequency coverage			
	Version	Transmit	Receiver
	USA	144-148, 430-450MHz <sup>-1</sup>	118-174, 375-550MHz <sup>*1</sup>
	EXP	137-174, 400-470MHz*2	118-174, 375-550MHz <sup>*2</sup>
			40-450MHz. <sup>12</sup> 144-148, 430-440MH
Type of emission		F2D, F3E, F7W	
Mode		DV, FM, FM-N	
		AM (RX only), AM-N (RX only)* Depending on version	
Operating temperature range		-10°C to +60°C; +14°F to +140°F	
Frequency stability		±2.5ppm (-10°C to +60°C on the basis of 25°C)	
Digital TX speed		4.8kbps	
Voice coding speed		2.4kbps	
Antenna impedance		50Ω (SO-239)	
Number of memory channels		1000 regular channels, 4 call channels, 50 prograr	
		scan edges and 1500 repeater memories	
Power supply requirements		13.8V DC ±15%	
Current drain	RX Stand-by	1.2A	
	Max. audio	1.8A (Dualwatch, with Ext. SP 8Ω load)	
	TX	13.0A	
Dimensions	Main unit	150 × 40 × 172.6 mm; 5.91 × 1.57 × 6.8 in	
(W×H×D, projections not included)	Controller	182.2 × 81.5 × 24.7 mm; 7.17 × 3.21 × 0.97 in	
Weight (approx.)	Main unit	1.3kg; 2.87 lb	
	Controller	260g; 9.17 oz	
	T	RANSMITTER	
Output power		50W, 15W, 5W	
Modulation system	FM, FM-N	FM reactance modulation	
	DV	GMSK reactance modulation	
Max. frequency deviation		±5.0kHz/±2.5kHz (FM/FM-N)	
Spurious emissions		Less than -60dBc	
Microphone impedance		600Ω (8-pin modular jack)	
		RECEIVER	
Intermediate frequencies	A band	38.85MHz/450kHz (1st /2nd)	
	B band	46.35MHz/450kHz (1st/2nd)	
Sensitivity  Receiver sensitivity	FM/FM-N (12dB SINAD)	Less than 0.18µV (amateur bands only)	
	DV (1% BER)	Less than 0.28µV	
	FM/FM-N	137-159.995MHz Less t	han 0 32uV
(Not guaranteed, for your reference only. Except amateur bands.)	(12dB SINAD)	160-174.000MHz Less t	
		375-399.995MHz Less than 0.56µV	
		400-499.995MHz Less than 0.32µV	
		500-550.000MHz Less t	
	AM (10dB S/N)	118-136.9916MHz Less t	<u>'</u>
Squelch sensitivity	7 (10 dB 0/14)	Less than 0.13µV (at threshold)	
Selectivity	FM	More than 60dB	
	FM-N	More than 55dB	
	DV	More than 50dB	
	-	More than 60/55dB (VHF/UHF)	
Spurious and image rejections	A band	More than 60/60dB (VHF/UHF)	
Spurious and image rejections		·	
Spurious and image rejections  Audio output power	B band		UHF)

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

Supplied accessories (\* Not supplied or may differ, depending on version)

- Hand microphone, HM-207
- CD (CS-5100 and instruction handbook PDF)
- Controller cable, OPC-837 (3.5 m; 11.4 ft)
- DC power cable, OPC-1132
  - Controller bracket, MBA-2\*
  - Microphone hanger Spare fuse

For ID-5100A owners, the latest firmware and CS-5100 software can be download free from:

**OPTIONS** Some options may not be available in some countries. Please ask your dealer for details.





MBF-1 Suction cup mounting base MBA-2 is required.



CONTROLLER EXTENSION

**OPC-1156** 3.5m (11.4ft) cable.





MICROPHONE ADAPTER













•RS-MS1A Android™ APPLICATION Free download software. Download from Google Play

•OPC-1529R DATA COMMUNICATION CABLE BS-232C cable for connection with a PC

•CS-5100 PROGRAMMING SOFTWARE Same as supplied.

#### Main unit (Front panel)



#### (Rear panel)



External Speaker Jack 2

Count on us!

#### http://www.icom.co.jp/world/support/index.html

D-STAR (Digital Smart Technology for Amateur Radio) is a digital radio protocol developed by JARL (Japan Amateur Radio League).

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NEVER operate the transceiver while driving a vehicle. Safe driving requires your full attention—anything less may result in an accident

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