



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®

Android™

D-STAR

Innovation and Mobility Taken to the Next Level



DV/FM Repeater List Function

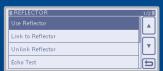
The DV/FM repeater list function assists you accessing nearby repeaters, even in areas you are visiting for the first time. The function searches for a nearby repeater using the repeater memories with the GPS position information.

* 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.



Qwerty keyboard example



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



SUB (HM + 14	:11	+ 044	MAIN
146.580	44	3.57	5
	Н		PSKIP 000
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

-5100A

D-510

SPECIFICATIONS

Frequency coverage Version USA EXP Type of emission Mode Operating temperature range Frequency stability Digital TX speed Voice coding speed Antenna impedance Number of memory channels Power supply requirements Current drain RX Star Max TX Dimensions (WxHxD, projections not included) Weight (approx.) Main un Controll Output power Modulation system FM, FM- DV Max. frequency deviation Spurious emissions Microphone impedance Intermediate frequencies B band Sensitivity FM/FM-N(nd-by c. audio iit ler iit	F2D, F3E, F7W DV, FM, FM-N AM (RX only), AM-N (RX o -10°C to +60°C; +14°F to ±2.5ppm (-10°C to +60°C 4.8kbps 2.4kbps 50Ω (SO-239)	call channels, 50 program eater memories $SP\ 8\Omega\ load)$ $\times\ 1.57\times6.8\ in$			
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Modulation system FM, FM DV Max. frequency deviation Spurious emissions Microphone impedance Intermediate frequencies A band B band		RANSMITTER				
Modulation system FM, FM DV Max. frequency deviation Spurious emissions Microphone impedance Intermediate frequencies A band B band		50W, 15W, 5W				
Max. frequency deviation Spurious emissions Microphone impedance Intermediate frequencies B band	-N	FM reactance modulation				
Spurious emissions Microphone impedance Intermediate frequencies A band B band		GMSK reactance modulat	ion			
Spurious emissions Microphone impedance Intermediate frequencies		±5.0kHz/±2.5kHz (FM/FM				
Microphone impedance Intermediate frequencies A band B band		Less than -60dBc				
B band		600Ω (8-pin modular jack	()			
B band		RECEIVER	,			
B band			1\			
		38.85MHz/450kHz (1st /2nd)				
Sensitivity FM/FM-N (46.35MHz/450kHz (1st/2nd)				
	,	Less than 0.18µV (amateur bands only)				
DV (1%		Less than 0.28µV				
Receiver sensitivity FM/FM- (Not guaranteed, for your (12dB S		137-159.995MHz Less than 0.32µV				
reference only. Except	(12dB SINAD)	160-174.000MHz Less than 0.56μV				
amateur bands.)		375-399.995MHz Less than 0.56μV				
		400-499.995MHz Less than 0.32μV				
		500-550.000MHz Less t	<u>'</u>			
AM (10dB S/N)		118-136.9916MHz Less than 1µV				
Squelch sensitivity		Less than 0.13μV (at threshold)				
Selectivity FM		More than 60dB				
FM-N		More than 55dB				
DV		More than 50dB				
	Spurious and image rejections A band		More than 60/55dB (VHF/UHF)			
B band		More than 60/60dB (VHF/I	- ,			
Audio output power						
External speaker connector All stated specifications are su		More than 2.0W (with 8Ω leads to 2-condcutor 3.5 (d) mm (

- 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:

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.

OPTIONS



CONTROLLER EXTENSION





OPC-1156 3.5m (11.4ft) cable. 3.5m (11.4π) capie.
A modular connector is supplied. MICROPHONE EXTENSION CABLES







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

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

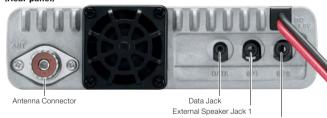
•CS-5100 PROGRAMMING SOFTWARE Same as supplied.

Main unit (Front panel)

OPC-440: 5m (16.4ft) **OPC-647**: 2.5m (8.2ft)



(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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