



ID-5100E

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™



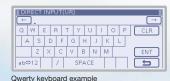
Innovation and Mobility Taken to the Next Level



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.





(Using optional MBF-1 mount base and MBA-2 controller bracket

DV/DV Dualwatch

The ID-5100E 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

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SUB FM	11:12	+ DV MAIN
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D=1 RX>CS	CD CS	SCAN MONI

MAIN DV 19:40 + DV SUB

D=1 RX>CS CD CS SCAN MONI DV/DV dualwatch (DR function) example

SUB FM * 14:11 + DV / MAIN 145.500 439.450

Integrated GPS Receiver

The ID-5100E 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.



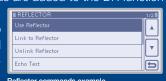
DV/FM Repeater List Function

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

Dplus Reflector Linking

Dolus 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 com-

mands are selectable.



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-5100E with three programmable buttons.

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







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

The RS-MS1A allows you wirelessly connect to the ID-5100E 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.

Herne Bay Kirkland (IA)

DV Fast Data Mode*

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

Steps to send a picture over the DV Fast Data mode



Other Features

- Enhanced D-PRS functions with object, position, items and weather formats
- Convenient memory contents management using **CSV** format
- Speech function announces operating frequency, mode and received callsign (DV mode)
- Independent main dial, 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





ID-510

SPECIFICATIONS

		GENERAL	
Frequency coverage		(Unit: MHz)	
	Version	Transmit	Receiver
	EUR	144-146, 430-440	118-174, 375-550 ⁻¹
	ITR	144-146,	118-136.9916, 144-146,
		430-434, 435-438	430-434, 435-438° ²
	Guaranteed range: "1 144-146, 430-440MHz. "2 144-146, 430-434, 435-438M		

	Guar	anteed range: 144-146, 430-440MHz. 144-146, 430-434, 435-436MHz.	
Type of emission		F2D, F3E, F7W	
Mode		DV, FM, FM-N, AM	
		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 program scan edges and 1200 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	

		CONTROLLO	200g; 0111 02	
	TRANSMITTER			
Output power			50W, 15W, 5W	
N	Modulation system	FM, FM-N	FM reactance modulation	
		DV	GMSK reactance modulation	
N	Max. frequency deviation		±5.0kHz/±2.5kHz (FM/FM-N)	
S	Spurious emissions		Less than -60dBc	
Microphone impedance			600Ω (8-pin modular jack)	
			DECEIVED	

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	FM/FM-N (12dB SINAD)	Less than 0.18µV (amateur bands only)	
	DV (1% BER)	Less than 0.28μV	
Receiver sensitivity	FM/FM-N (12dB SINAD)	137-159.995MHz Less than 0.32μV	
(Not guaranteed, for your reference only. Except amateur bands.)		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 than 0.56μV	
	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/UHF)	
Audio output power		More than 2.0W (with 8Ω load, 10% distortion)	
External speaker connector		2-condcutor 3.5 (d) mm (1/8")/8Ω	

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

Supplied accessories (* May differ, depending on version)

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

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





MBA-2

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



For moun



CI-V LEVEL CONVERTER CONTROLLER EXTENSION CABLE



MICROPHONE EXTENSION



OPC-2350LU: USB cable for connection with an Android™ device or a PC.



PROGRAMMING CABLE

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

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

OPC-478UC: USB type •CS-5100 PROGRAMMING SOFTWARE Same as supplied.

Main unit (Front panel)



(Rear panel)



www.icom.co.jp/world

External Speaker Jack 2

Count on us!

For ID-5100E owners, the latest firmware is available for free download from 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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