



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™

Innovation and Mobility Taken to the Next Level



DV/FM Repeater List Function

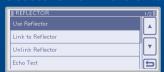
The DV/FM repeater list function assists you accessing nearby repeaters, even in areas you are visiting for the first time. The function searches for a nearby repeater using the repeater memories with the GPS position information.

* 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 Bluetooth® unit must be installed in the ID-5100A







Bluetooth® unit,

Intuitive Touch Screen Operation

The intuitive touch screen interface provides quick and smooth operation. The large 5.5 inch display (320 \times 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





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 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 TM device can be transmitted over the DV mode.

- * Optional UT-133 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

Repeater map example

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, volume and SQL knobs for A/B bands
- AM airband dualwatch
- CS-5100, cloning 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)



VHF/UHF DUAL BAND DIGITAL TRANSCEIVER



Steps to send a picture over the DV mode



)-510

		GENERAL	
Frequency coverage		(unit:MHz)	
, ,	Version	Transmit	Receiver
	USA	144-148, 430-450*1	118-174, 375-550*1
	EXP	137-174, 400-470*2	118-174, 375-550*2
		Guaranteed range: 1 144-148, 4	40-450MHz. ² 144-148, 430-440MHz
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 program	
		scan edges and 1200 repeater memories	
Power supply requirements		13.8C DC ±15%	
Current drain	RX Stand-by	1.2A	
	Max. audio	1.8A (Dualwatch, with Ext. SP 8Ω load)	
	TX	13.0A	
Dimensions (WxHxD, projections not included) Weight (approx.)	Main unit	150×40×172.6 mm; 5.91 × 1.57 × 6.8 in	
	Controller	182.2×81.5×24.7 mm; 7.17 × 3.21 × 0.97 in	
	Main unit	1.3kg; 2.87 lb	
	Controller	260g; 9.17 oz	
	Т	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	FM/FM-N (12dB SINAD)	Less than 0.18µV (amateur bands only)	
	DV (1% BER)	Less than 0.28µV	
Receiver sensitivity (Not guaranteed, for your reference only. Except	FM/FM-N	137-159.995MHz Less than 0.32μV	
	(12dB SINAD)	160-174.000MHz Less than 0.56μV	
amateur bands.)		375-399.995MHz Less t	han 0.56µV
		400 400 0051411 1	

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

Supplied accessories (* May differ, depending on version)

AM (10dB S/N)

FM FM-N

DV

A band

B band

• Hand microphone, HM-207

Squelch sensitivity

Spurious and image rejections

Audio output power External speaker connector

Selectivity

• DC power cable, OPC-1132 · Microphone hanger

More than 2.0W (with 8Ω load, 10% distortion)

400-499.995MHz Less than 0.32μV 500-550.000MHz Less than 0.56μV 118-136.9916MHz Less than 1μV

Less than 0.13µV (at threshold)

More than 60/55dB (VHF/UHF) More than 60/60dB (VHF/UHF)

2-condcutor 3.5 (d) mm (1/8")/8Ω

More than 60dB

More than 55dB

More than 50dB

- Controller cable, OPC-837 (3.5 m; 11.4 ft)
- Spare fuse

ICOM INC. 1-1-32, Kami-minami, Hirano-ku, Osaka 547-0003, Japan Phone: +81 (06) 6793 5302 Fax: +81 (06) 6793 0013

• CD (CS-5100 and instruction handbook PDF)

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



MOUNTING

CONTROLLER EXTENSION







MICROPHONE ADAPTER



MBA-2 is required.







OPC-440: 5m (16.4ft) **OPC-647**: 2.5m (8.2ft) •CS-5100 CLONING SOFTWARE Same as supplied.

•RS-MS1A Android™ APPLICATION Free download software. Download from Google Play¹⁵

Main unit (Front panel)



(Rear panel)



External Speaker Jack 2

Count on us!

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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.

Icom America Inc.

12421 Willows Road NE, Kirkland, WA 98034, U.S.A Phone: +1 (425) 454-8155 Fax: +1 (425) 454-1509 E-mail : sales@icomamerica.com
URL : http://www.icomamerica.com

Icom Canada

Glenwood Centre #150-6165 Highway 17A, Delta, B.C., V4K 5B8, Canada Phone: +1 (604) 952-4266 Fax :+1 (604) 952-0090 E-mail: info@icomcanada.com : http://www.icomcanada.com

Icom Brazil

Rua Itororó, 444 Padre Eustáquio Belo Horizonte MG. CEP: 30130-150, Brazil Phone: +55 (31) 3582 8847 Fax: +55 (31) 3582 8987 E-mail : sales@icombrazil.com

Icom (Europe) GmbH

Communication Equipment Auf der Krautweide 24 URL: http://www.icomeurope.com

Icom Spain S.L.

Ctra. Rubi, No. 88 "Edificio Can Castanyer" Bajos A 08174, Sant Cugat del Valles, Barcelona, Spain

Phone: +34 (93) 590 26 70 Fax: +34 (93) 589 04 46 E-mail: icom@icomspain.com URL: http://www.icomspain.com Icom Polska Sp. Z o.o.

80-286 Gdansk, Jaskowa Dolina St. 75, Poland Phone : +48 (58) 551 0484 Fax : +48 (58) 551 4720 E-mail: icompolska@icompolska.com.pl URL: http://www.icompolska.com.pl

Icom (UK) Ltd.

Blacksole House, Altira Park, Herne Bay, Kent, CT6 6GZ, U.K. Phone : +44 (0) 1227 741741 Fax : +44 (0) 1227 741742 E-mail : info@icomuk.co.uk URL : http://www.icomuk.co.uk

Icom France s.a.s.

Zac de la Plaine, 1 Rue Brindejonc des Moulinais, BP 45804, 31505 Toulouse Cedex 5, France Phone: +33 (5) 61 36 03 03 Fax : +33 (5) 61 36 03 00 E-mail : icom@icom-france.com : http://www.icom-france.com

Icom (Australia) Pty. Ltd.

Unit 1 / 103 Garden Road, Clayton, VIC 3168 Australia Phone: +61 (03) 9549 7500 Fax: +61 (03) 9549 7505 E-mail: sales@icom.net.au URL: http://www.icom.net.au

Icom New Zealand

www.icom.co.jp/world

146A Harris Road, East Tamaki, Auckland, New Zealand Phone: +64 (09) 274 4062 Fax : +64 (09) 274 4708 E-mail : inquiries@icom.co.nz URL : http://www.icom.co.nz

Asia Icom Inc.

6F No. 68, Sec. 1 Cheng-Teh Road, Taipei, Taiwan, R.O.C. Phone: +886 (02) 2559 1899 Fax : +886 (02) 2559 1874 E-mail: sales@asia-icom.com URL: http://www.asia-icom.com

Shanghai Icom Ltd.

No.101, Building 9, Caifuxingyuan Park. No. 11, Bullicing y, Caltrixing/guan Fark, No. 188 Maoting Road, Chedun Town, Songjiang District, Shanghai, 201611, China Phone : +86 (021) 6153 2768
Fax : +86 (021) 5765 9987
E-mail: bjicom@bjicom.com
URL : http://www.bjicom.com

Your local distributor/dealer:

