



VHF/UHF DIGITAL TRANSCEIVER

ID-52E

Multi-Function Dual Band Digital with Waterfall Colour Display

The ICOM ID-52E is a multi-function dual band digital transceiver. The main screen displays the following information:

- TO:** Kirkland
- FROM:** Herne Bay 439.450 GB7IC B
- FM:** 145.000 PSKIP
- DIGITAL** and **DUAL BAND TRANSCEIVER** labels

Surrounding the main device are several inset screens showing different functions:

- MAIN DV:** TO CQCQCQ, FROM Herne Bay 439.450, GB7IC B, DV D-, DR, Herne Bay.
- NEAR REPEATER (ALL):** Herne Bay, Herne Bay, Folkestone, Folkestone, Hockley, 0.6km GB7IC B.
- GPS POSITION:** 51° 22.21'N, 1° 08.32'E, GL: JO01NI, ALT: 69m, SPEED: 2.0km/h, MY TIME: 14:05:04.
- FM:** 433.060 PSKIP, VFO, 432.600, 433.400.
- MENU:** VOICE, RECORD, FM RADIO, MEMORY, CD, DV GW, PICTURE, GPS, SET.
- FM:** 433.400 PSKIP, VFO, JMI1ZLK RX, JASYUA TX.

Key features and specifications are listed at the bottom:

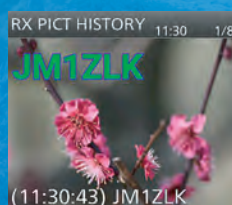
- GPS** (Location icon)
- Micro USB** (USB icon)
- SPEAKER OUTPUT 750mW** (Speaker icon)
- IPX7** (Water drop icon)
- Micro SD** (SD card icon)
- VHF/UHF AIRBAND** (Airplane icon)
- COLOUR DISPLAY** (Color bar icon)
- Bluetooth®** (Bluetooth logo)
- DIGITAL** (Digital logo)
- Terminal Mode DV Gateway Access Point Mode** (Terminal Mode icon)

Multi-Function Dual B

Worldwide Communication Thro

The ID-52E is a VHF/UHF dual band radio with D-STAR and FM dual mode functions. The ID-52E supports conventional FM communications as well as D-STAR simplex, repeater, regional, and worldwide calls over the D-STAR Internet gateway. With the ID-52E, you can call a friend in another city, or even internationally through D-STAR repeaters, with digital clear audio. In addition, the ID-52E can send digital voice with data, text messages, GPS location information and pictures.

Picture Sharing Functions



Share pictures with other users and see received pictures on the colour display. Pictures taken on an Android™ device can be wirelessly transferred to the ID-52E via Bluetooth®.

DR (D-STAR Repeater) Function



DR screen

The expanded DR (D-STAR Repeater) function makes D-STAR and FM repeater communication easier to use. Combined with the GPS function, selection of an available local repeater is available with a couple of button pushes, based on your location. Additionally, DR mode supports reflector linking controls.

Advanced Functions and Colour



2.3" Large Colour Display



Black background



White background

The ID-52E features a 2.3 inch colour display (320 × 280 pixels) which provides excellent viewability. The display background colour is selectable from black and white.

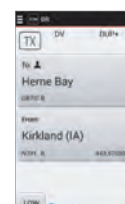


Bluetooth® Enabled Features



VS-3, Bluetooth® Headset

The optional VS-3 Bluetooth® headset enables hands-free wireless operation. In addition to the PTT and volume up/down buttons, the VS-3 has three programmable buttons that can be assigned functions to improve operation.



DR setting display example



Text transmission display example

You can connect to a smart device through Bluetooth®. The Remote Control Software, RS-MS1A for Android™ device or RS-MS1I for iOS™ device can wirelessly control the ID-52E to change operating frequencies and other settings.

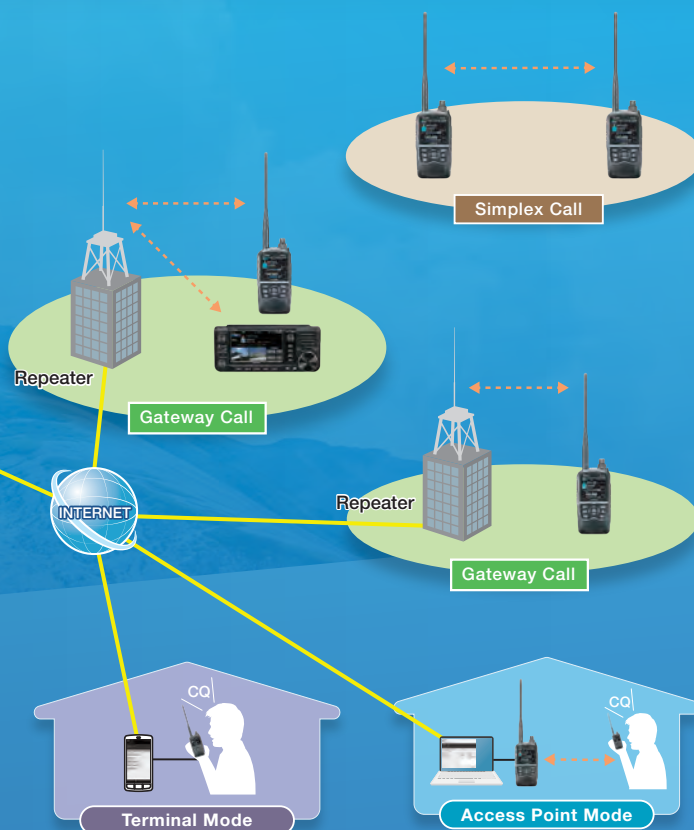
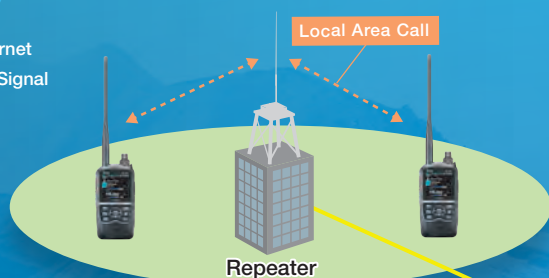
VHF/UHF DIGITAL TRANSCEIVER

ID-52E

and Digital Transceiver

ugh the D-STAR Network

Internet
RF Signal



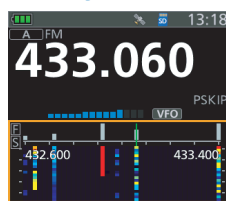
Terminal Mode and Access Point Mode*

Connect the ID-52E to the Internet through a Windows® PC or an Android™ device. The Internet gateway (using Terminal mode and Access Point mode) enables you to access the D-STAR repeater network, even from areas where no D-STAR repeater is directly accessible via radio.

* Terminal and Access Point modes are compatible with Icom RS-RP3 Gateway Software. If your D-STAR repeater is running G1 or G2 software, please contact your local Icom Distributor to upgrade software. • You need an Internet connection with an IPv4 Global IP address. If you use a cellular system, you need an IPv4 Global IP address assigned to your Android™ device. • The RS-MS3W optional software is required to be installed in the PC (Download from Icom website). The RS-MS3A optional application software is required to be installed in the Android™ device (Download from Google Play™). USB cable is required. Type-A: User supplied. Type-C: OPC-2418. micro-B: OPC-2417.

Display

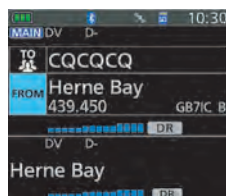
Handy Radio First! Waterfall Display



Fixed scroll mode

The waterfall display shows not only the existence of signals but also the changes of signal level in chronological order. You will have an overview of the band conditions in more detail, including busy frequencies currently used, or open frequencies not used. The band scope mode is selectable from center mode, Fixed mode and Fixed scroll mode.

V/V,U/U,V/U Dualwatch Including DV/DV Mode



DV/DV mode

The Dualwatch function monitors the VHF/VHF, UHF/UHF and VHF/UHF bands simultaneously*. You can quickly respond to a call from the Main and Sub bands. Two DV signals can be decoded at the same time.

* AM/AM mode Dualwatch is not possible. AM signals can be received on only the Main VFO (A band).

Integrated GPS/GLONASS Receiver



GPS position with grid locator

D-PRS mode is supported by the internal GPS receiver for sending your location and showing received station location, distance, and direction from your current location. In addition to your location, the ID-52E displays your current Grid Square information. The GPS position data can be used for Position Auto Reply, Near Repeater Search, and GPS log functions.

VHF/UHF Airband and FM Broadcast Receiver



Broadcast receiver

Airband reception is expanded from VHF to UHF military airband (225 to 374.995 MHz). FM broadcast stations can be listened to while using the dualwatch function.

microSD Card Slot

You can store QSO Recording, TX Voice Memory, pictures, QSOs and GPS log data. Firmware upgrades, Repeater lists and other personal settings onto a microSD card (up to 32 GB). This can then be uploaded into the ID-52E radio.

Micro USB Connector

The ID-52E has a Multi-function USB port as well as USB host function, for charging the Icom battery packs, PC Programming, read/write contents to the microSD card, Terminal/Access Point mode support, as well as CI-V control as well as audio.

IPX7 Waterproof and Tough Construction

IPX7 waterproofing and pro-grade construction make the ID-52E ideal for operating in harsh outdoor environments.

Other Features

- 750 mW loud audio output power
- Improved heat dissipation efficiency for stable operation
- DV fast data mode uses data in place of voice frames
- QSO log in CSV data format
- Accessories for the ID-51E/ID-31E such as battery packs and microphones can be used
- DV/FM near repeater search function
- Voice recorder function
- External DC power jack

■ SPECIFICATIONS

GENERAL				
Frequency coverage (Unit: MHz)	Version	Transmit	Receiver	Broadcast band
	EUR	144–146, 430–440	(A) 108–174, 225–479* (B) 137–174, 375–479*	76.0–108.0
	(A) means A band, (B) means B band. Guaranteed range: * 144–146, 430–440 MHz			
Type of emission		F2D, F3E, F7W		
Mode		DV, FM, FM-N, WFM*, AM*, AM-N* (* WFM, AM and AM-N are Rx only)		
Number of memory channels		1000 memory channels, 4 call channels, 50 scan edges, 100 skip channels, 500 broadcast stations, 2500 repeaters, 300 call signs and 300 GPS memories		
Frequency resolution		5, 6.25, 8.33*, 10, 12.5, 15, 20, 25, 30, 50, 100, 125 and 200 kHz * Selectable depending on the operating band.		
Operating temperature range		–20°C to +60°C ; –4°F to +140°F		
Frequency stability		±2.5 ppm (–20°C to +60°C on the basis of 25°C)		
Antenna impedance		50 Ω (SMA)		
Power supply requirement	Battery pack	7.4 V DC (with BP-272), 7.2 V DC (with BP-307)		
	Alkaline cells	5.5 V DC (with BP-273)		
	External DC	10–16 V DC		
Current drain (at 7.4 V DC)	Tx High	Less than 2.5 A		
	Rx AF Max.	Less than 450 mA (DV), Less than 400 mA (FM, FM-N) (Internal SP, 8 Ω)		
Dimensions (W×H×D) (projections not included)		61.1 × 121.6 × 34.8 mm (with BP-272)		
Weight (approx.)		330 g (with BP-272 & antenna)		
TRANSMITTER				
Modulation system	DV	GMSK reactance modulation,		
	FM, FM-N	FM reactance modulation		
Output power (at 7.4 V DC)		5 W, 2.5 W, 1.0 W, 0.5 W, 0.1 W (High, Mid, Low2, Low1, S-low)		
Spurious emissions		Less than –60 dBc (High, Mid), Less than –13 dBm (Low2, Low1, S-low)		
Max. frequency deviation		±5.0/2.5 kHz (FM/FM-N)		
Ext. Mic impedance		2.2 kΩ		
RECEIVER				
Sensitivity	DV	Less than 0.2 μV (at 1% BER)		
	FM, FM-N	Less than 0.18 μV (at 12 dB SINAD)		
Selectivity		More than 50 dB (DV, FM-N), More than 55 dB (FM)		
Spurious rejection		More than 60 dB		
Audio output power	Internal SP	More than 750 mW (8 Ω load)		
	External SP	More than 200 mW (8 Ω load)		
Receiver sensitivity (Except amateur bands.)				
	Frequency range (Unit: MHz)	FM/FM-N/WFM (12 dB SINAD)	AM/AM-N (10 dB S/N)	
A band	BC band	76.000–108.000	Less than 1 μV (WFM)	–
		108.000–136.991	–	Less than 1 μV
		137.000–142.000	Less than 0.18 μV	Less than 1 μV
		142.005–148.000	Less than 0.18 μV	–
		148.005–174.000	Less than 0.32 μV	–
		225.000–259.995	Less than 0.56 μV	Less than 1.8 μV*
		260.000–354.995	Less than 0.32 μV	Less than 1 μV*
		355.000–374.995	Less than 0.5 μV	Less than 1.8 μV*
		375.000–399.995	Less than 0.5 μV	–
B band		400.000–479.000	Less than 0.32 μV	–
		137.000–148.000	Less than 0.18 μV	–
		148.005–174.000	Less than 0.32 μV	–
		375.000–399.995	Less than 0.5 μV	–
		400.000–479.000	Less than 0.32 μV	–

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




* AM-N mode cannot be received from 225 to 374.995 MHz.

Supplied accessories	<ul style="list-style-type: none"> Battery pack, BP-272 • Wall charger, BC-167SD Antenna, FA-S270C • Belt clip, MB-127 • Hand strap
----------------------	---

* Supplied accessories may differ depending on the transceiver version.

■ OPTIONAL ACCESSORIES

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

BATTERY PACKS AND CASE				Battery packs	BP-272	BP-307	BP-273
  	Type	Rechargeable Li-ion, 7.4 V	Rechargeable Li-ion, 7.2 V	LR6 (AA) batteries x3			
	Capacity	1880 mAh (min.) 2000 mAh (typ.)	3050 mAh (min.) 3150 mAh (typ.)				
	Operating time*	7.25 hours (FM mode)	12 hours (FM mode)	-			
	* Approximate. Tx: Rx: standby = 1:1.8. Power save function ON. GPS OFF.						

RAPID CHARGER

	
BC-202IP2 Charges BP-272/BP-307 in 2.5/4 hours (approx.).	BC-123S *1 AC adapter supplied with the BC-202IP2, depending on version.

*1 BC-123SA for USA plug, SE for Europe plug. *2 BC-167SA for USA plug, SD for Europe plug, SV for Australia plug.

WALL CHARGER



BC-167S*2

EARPHONE-MICROPHONES



HM-153LS

HM-166LS

SPEAKER-MICROPHONES

HM-75LS
For remote controlHM-183LS
Waterproof

HM-186LS

HEADSETS and PLUG ADAPTER CABLE For VOX Operation

HS-94
Earhook typeHS-95
Neck arm typeHS-97
Throat typeOPC-2006LS
Required when using any of these headsets

Bluetooth® HEADSET



VS-3

CIGARETTE LIGHTER CABLES



CP-12L

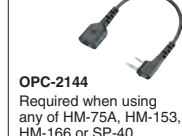
Built-in noise filter

DC POWER CABLE



OPC-254L

PLUG ADAPTER CABLE



OPC-2144

Required when using any of HM-75A, HM-153, HM-166 or SP-40.

CARRYING CASE



LC-193

APPLICATION SOFTWARE*

- RS-MS1A: Remote control application for Android™
- RS-MS1I: Remote control application for iOS™.
- RS-MS3A: Terminal/Access point mode application for Android™
- RS-MS3W: Terminal/Access point mode software for Windows® PC
- CS-52: Programming software for Windows® PC.
- ST-4001A: Picture Utility Software for Android™
- ST-4001I: Picture Utility Software for iOS™
- ST-4001W: Picture Utility Software for Windows® PC

* Applications for Android™ can be freely downloaded from Google Play™. Applications for iOS™ can be freely downloaded from the App Store. Software for Windows® PC can be freely downloaded from the Icom website.

OTHER OPTIONS

- AD-92SMA: SMA-BNC antenna adapter
- FA-S270C: VHF/UHF antenna. Same as supplied
- MB-127: Belt clip. Same as supplied
- SP-40: Earphone (OPC-2144 required.)
- CP-23L: Cigarette lighter cable for BC-202IP2
- OPC-515L: DC power cable for BC-202IP2
- OPC-2417: USB cable (micro B - micro B)
- OPC-2418: USB cable (Type C - micro B)

Icom, Icom Inc. and the Icom logo are registered trademarks of Icom Incorporated (Japan) in Japan, the United States, the United Kingdom, Germany, France, Spain, Russia, Australia, New Zealand, and/or other countries. The Bluetooth® word mark and logos are registered trademark owned by Bluetooth SIG, Inc. and any use of such marks by Icom Inc. is under license. Android and Google Play are registered trademarks or trademarks of Google LLC. iOS is a trademark or a registered trademark of Cisco in the U.S. and other countries and is used under license. Windows is either a registered trademark or a trademark of Microsoft Corporation in the United States and/or other countries. All other trademarks are the properties of their respective holders. D-STAR (Digital Smart Technology for Amateur Radio) is a digital radio protocol developed by JARL (Japan Amateur Radio League).

Icom Inc. 1-1-32, Kamiminami, Hirano-Ku, Osaka 547-0003, Japan Phone: +81 (06) 6793 5302 Fax: +81 (06) 6793 0013

www.icomjapan.com

Your local distributor/dealer:

ADVANTEC

Advantec Srl

Via Caduti per la Libertà, 13
10060 Pinasca TO - Italy
Tel. +39 0121326770
info@advantec.it - www.advantec.it