ICOM

ID−52E

Multi-Function Dual Band Digital
with Colour Display and Bluetooth®

CQCQCQ
FROM Herne Bay
439.450
GB7IC B
Herne Bay

NEAR REPEATER (ALL) 1/4
Herne Bay
Herne Bay
Folkestone
Folkestone
Hockley
0.6km GB7IC B

GPS POSITION 1/5
51˚22.21'N
1˚08.32'E
48˚ GL: JO01NI
ALT: 69m
SPEED: 2.0km/h
TIME: 14:05:04

GPS INFORMATION SAT: 12
36m
51˚22.21'N
1˚08.32'E

443.000 PSKIP
VFO
JM1ZLK JA3YUA
RX TX

MENU
VOICE RECORD FM RADIO
MEMORY CD DV GW
PICTURE GPS SET

ICOM FA-S270C

ICOM ID−52
MAIN DV D+ 10:30
TO Kirkland
FROM Herne Bay
439.450 GB7IC B
DR
FM
145.000 PSKIP
VFO
DIGITAL
DUAL BAND TRANSCEIVER

MENU
MODE SCAN
MAIN DUAL
RX→CS
CD LO
DR
VFO/MHz CLR CALL
MR MW
QUICK SPCH

GPS

Micro USB
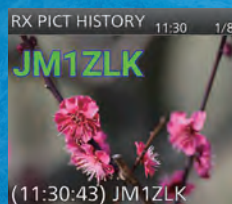
SPEAKER OUTPUT
750mW

COLOUR DISPLAY

Bluetooth®

IPX7

Micro SD

VHF/UHF AIRBAND

Terminal Mode
DV Gateway
Access Point Mode

DIGITAL

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.
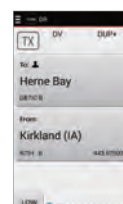
Bluetooth® Enabled Features

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 an Android™ device through Bluetooth®. With the Android™ device together with the RS-MS1A Remote Control Software installed, you can wirelessly control the ID-52E to change operating frequencies and other settings.
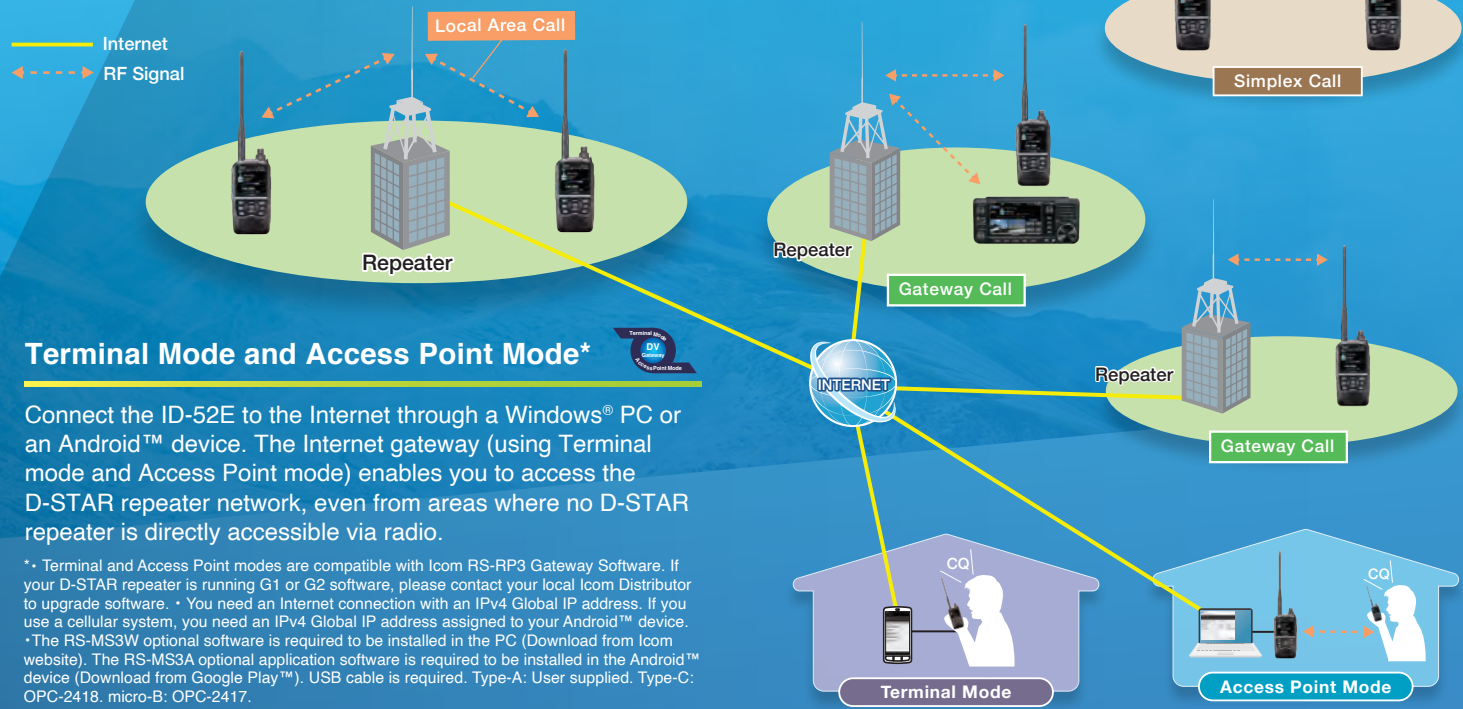
VHF/UHF DIGITAL TRANSCEIVER

ID−52E

and Digital Transceiver

ugh the D-STAR Network

Local Area Call

— Internet
◄ - - ► RF Signal

Simplex Call

Repeater

Repeater

Gateway Call

INTERNET
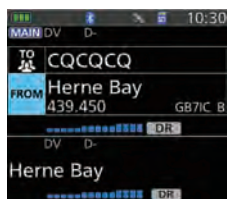
Repeater

Gateway Call

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.

CQ

CQ

Terminal Mode

Access Point Mode

Display

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).

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.
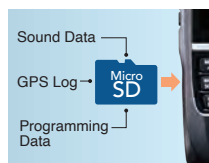
Integrated GPS/GLONASS Receiver

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.

microSD Card Slot

Sound Data

GPS Log →

Programming Data

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)
BC band	76.000–108.000	Less than 1 µV (WFM)	
A band	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	–
	400.000–479.000	Less than 0.32 µV	–
B band	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	• 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

BP-272   BP-307   BP-273

Battery packs	BP-272	BP-307	BP-273
Type	Rechargeable Li-ion, 7.4 V	Rechargeable Li-ion, 7.2 V	LR6 (AA) batteries ×3
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-202IP3L Connectable up to 6 units.
BC-123S*1 Straight plug for single unit.
BC-228 For BC-202IP3L multiple connections.

WALL CHARGER

BC-167S*2

EARPHONE-MICROPHONES

HM-153LS   **HM-166LS**

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

SPEAKER-MICROPHONES

HM-75LS For remote control
HM-183LS Waterproof
HM-186LS

HEADSETS and PLUG ADAPTER CABLE
For VOX Operation

HS-94 Earhook type
HS-95 Neck arm type
HS-97 Throat type
OPC-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™. Available later.
- **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-25H:** Cigarette lighter cable for BC-202IP3L single unit
- **OPC-2417:** USB cable (micro B - micro B)
- **OPC-2418:** USB cable (Type C - micro B)