

SPECIFICATIONS

| GENERAL                                          |                                                                                                                                                            |                                                                          |                                                        |                |
|--------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------|----------------|
| Frequency coverage<br>(Unit: MHz)                | Version                                                                                                                                                    | Transmit                                                                 | Receiver                                               | Broadcast band |
|                                                  | EUR                                                                                                                                                        | 144 ~ 146,<br>430 ~ 440                                                  | (A) 108 ~ 174, 225 ~ 479*<br>(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*<br>(* WFM, AM and AM-N are Rx only)                                                                                         |                                                                          |                                                        |                |
| Number of memory channels                        | 1000 memory channels, 4 call channels, 50 scan edges,<br>100 skip channels, 500 broadcast stations,<br>2500 repeaters, 300 call signs and 300 GPS memories |                                                                          |                                                        |                |
| Frequency resolution                             | 5, 6.25, 8.33*, 10, 12.5, 15, 20, 25,<br>30, 50, 100, 125 and 200 kHz<br>* For only 108.000 MHz ~ 136.991 MHz.                                             |                                                                          |                                                        |                |
| Operating temperature range                      | -20°C ~ +60°C                                                                                                                                              |                                                                          |                                                        |                |
| Frequency stability                              | ±2.5 ppm (-20°C ~ +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)                           |                                                        |                |
|                                                  | External DC                                                                                                                                                | 10 ~ 16 V DC                                                             |                                                        |                |
| Current drain<br>(at 7.4 V DC)                   | Tx High                                                                                                                                                    | Less than 2.5 A                                                          |                                                        |                |
|                                                  | Rx AF Max.                                                                                                                                                 | Less than 450 mA (DV),<br>Less than 400 mA (FM, FM-N) (Internal SP, 8 Ω) |                                                        |                |
| Bluetooth®                                       | Version 5.3, Class 2                                                                                                                                       |                                                                          |                                                        |                |
|                                                  | Profile                                                                                                                                                    | HFP, HSP, SPP, GATT (Serial) over LE                                     |                                                        |                |
| Dimensions (W×H×D)<br>(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<br>(High, Mid, Low2, Low1, S-Low)       |                            |
| Spurious emissions         | Less than -60 dBc (High, Mid),<br>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<br>(Unit: MHz) | FM/FM-N/WFM<br>(12 dB SINAD) | AM/AM-N<br>(10 dB S/N) |
| 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             | -                      |
|                                              | 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            | -                      |
|                                              | 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 ~ 374.995 MHz.

|                      |                                                                                                              |
|----------------------|--------------------------------------------------------------------------------------------------------------|
| Supplied accessories | • Battery pack, BP-272 • USB Type-C™ cable, OPC-2480<br>• Antenna, FA-S270C • Belt clip, MB-127 • Hand strap |
|----------------------|--------------------------------------------------------------------------------------------------------------|

Supplied accessories may differ depending on the transceiver version.

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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                             | WALL CHARGER |
|------------------------|--|--------------------------------------------------------------------------|------------------------------------|------------------------------------|--------------|
|                        |  | Type                                                                     | Rechargeable Li-ion, 7.4 V         | Rechargeable Li-ion, 7.2 V         |              |
|                        |  | Capacity                                                                 | 1880 mAh (min.)<br>2000 mAh (typ.) | 3050 mAh (min.)<br>3150 mAh (typ.) |              |
|                        |  | Operating time*                                                          | 7.25 hours (FM mode)               | 12 hours (FM mode)                 |              |
| BP-272 BP-307          |  | * Approximate. Tx: Rx: standby = 1:1:8. Power save function ON, GPS OFF. |                                    |                                    | BC-167S*     |

| EARPHONE-MICROPHONES       |  |  | RAPID CHARGER                                               |                                                                                                               |
|----------------------------|--|--|-------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| HM-153LS HM-166LS HM-257LS |  |  | BC-202IP2                                                   | BC-123S*                                                                                                      |
|                            |  |  | Charges BP-272 in 2.5 hours and BP-307 in 4 hours (approx.) | AC adapter supplied with the BC-202IP2, depending on version.<br>* BC-123SA for USA plug, SE for Europe plug. |

| SPEAKER-MICROPHONES |            |          |                    | CIGARETTE LIGHTER CABLE | DC POWER CABLE |
|---------------------|------------|----------|--------------------|-------------------------|----------------|
| HM-75LS             | HM-183LS   | HM-186LS | HM-243LS           | CP-12L                  | OPC-254L       |
| For remote control  | Waterproof |          | For remote control | Built-in noise filter   |                |

| HEADSETS and PLUG ADAPTER CABLE For VOX Operation |               |             | EARPHONE                                             | CARRYING CASE |
|---------------------------------------------------|---------------|-------------|------------------------------------------------------|---------------|
| HS-94                                             | HS-95         | HS-97       | SP-40                                                | LC-193        |
| Earhook type                                      | Neck arm type | Throat type | OPC-2144 required                                    |               |
|                                                   |               |             | OPC-2006LS Required when using any of these headsets |               |

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-52PLUS: 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  
•OPC-2480: USB cable (Type C - Type-A). Same as supplied  
•OPC-2144: Plug adapter cable. Use with SP-40  
•BC-202IP3L: Charges BP-272 in 3 hours and BP-307 in 5 hours (approx.)  
•BC-123S: Use with BC-202IP2/3L. BC-123SA for USA plug, SE for Europe plug  
•CP-23L: Cigarette lighter cable for BC-202IP2  
•OPC-515L: DC power cable for charging the battery pack

Unleash the Excitement

Enjoy D-STAR Functions More Than Ever

Terminal Mode  
DV  
Common  
Picture Point Mode

GPS

IPX7

COLOUR  
DISPLAY

SPEAKER OUTPUT  
750mW

VHF/UHF  
AIRBAND

Bluetooth®

USB  
(Type-C)

Micro  
SD

DIGITAL

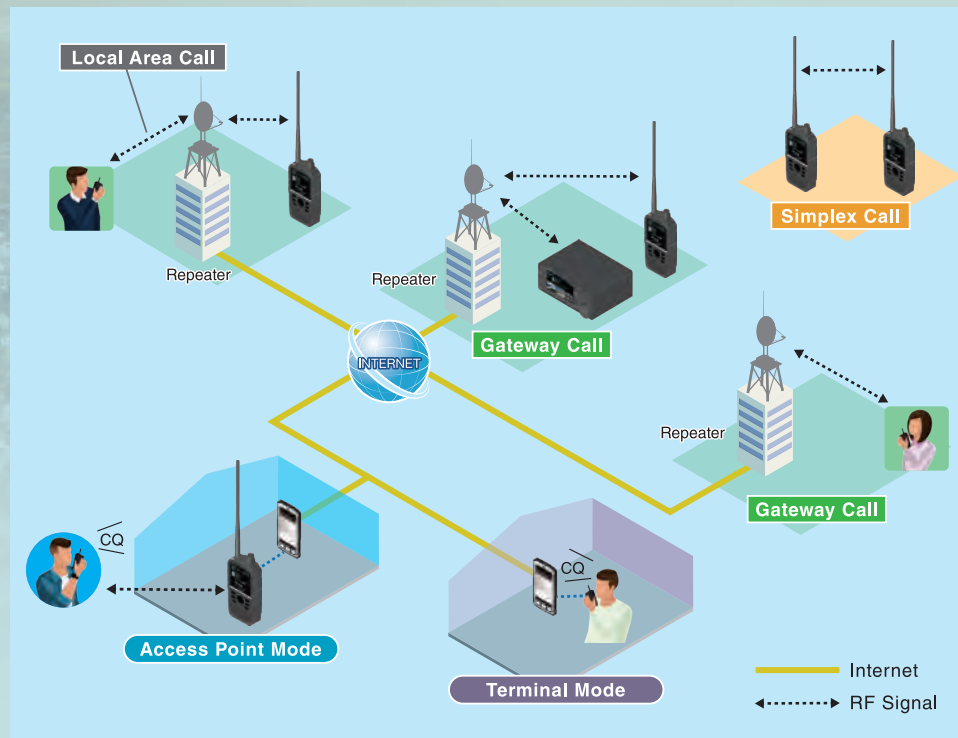
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# Multifunctional Digital with DV and FM Dual Mode

## Worldwide D-STAR Communication

The ID-52E PLUS is a VHF/UHF dual band radio with D-STAR (Digital Smart Technologies for Amateur Radio) and FM dual mode functions. The ID-52E PLUS supports conventional FM communications as well as D-STAR simplex, repeater, regional, and worldwide calls over the Internet connected D-STAR network. With the ID-52E PLUS, you can call a friend in another city, or even internationally through D-STAR repeaters, with digital clear audio.



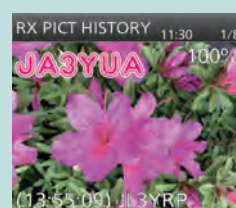
### DR (D-STAR Repeater) Function



DR screen

The DR function makes D-STAR and FM repeater communication simple. Combined with the GPS function, you can make selection of a local repeater based on your location. Additionally, the DR mode supports reflector linking controls.

### Share Picture Function



You can share pictures with other users and see received pictures on the colour display (DV mode). Pictures taken on a smart device can be wirelessly transferred to the ID-52E PLUS through Bluetooth® connection.

\* The Share Picture function requires the optional picture utility software ST-4001A (on Google Play™), ST-4001I (on App Store) or ST-4001W (Download from Icom website) picture utility software. The ST-4001W requires a microSD card or a USB cable to transfer pictures.

### Bluetooth® Connection with an Android™ Device for Terminal and AP Mode

The ID-52E PLUS can now connect wirelessly to an Android™ device over Bluetooth® connection in the Terminal mode and Access Point mode. By connecting to an Android device with the RS-MS3A app, digital communication is possible through a cellular phone. You can smoothly start Terminal mode and Access Point mode operation wirelessly even when you are going out. You can also operate these modes by connecting your ID-52E PLUS to a PC by a USB cable connected to the internet. When you are areas with no D-STAR repeaters, create your own Access Point to access the D-STAR repeater network virtually anywhere.

\* The RS-MS3W optional software (Download from Icom website) is required to be installed in the PC. The RS-MS3A optional application software is required to be installed in the Android™ device (Download on Google Play™). Use the Bluetooth® function or a USB cable to connect to the Android™ device. Type-A to Type-C: OPC-2480 (supplied with the transceiver). Type-C to Type-C: User supplied. Terminal and Access Point modes are compatible with the Icom RS-RP3 Gateway Software. If your D-STAR repeater is running G1 or G2 software, ask the repeater administrator to contact the local Icom Distributor to upgrade the software. You need an Internet connection with an IPv4 Global IP address. If you use a cellular phone, you need an IPv4 Global IP address assigned to your Android™ device.

## Advanced Functions and Operations

### 2.3" Large Colour Display

The ID-52E PLUS is equipped with a colour display. The display size is 2.3 inches, 320 x 280 pixels to achieve excellent viewability. The display background colour is selectable from black and white.

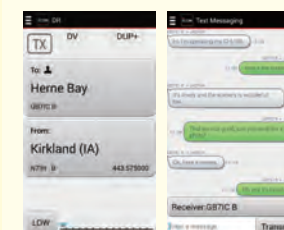


Black background



White background

### Bluetooth® Enabled Features



DR setting display example

Text transmission display example

The built-in Bluetooth® unit provides a wireless connection with a smart device. The Remote Control Software, RS-MS1A for Android™ device or RS-MS1I for iOS™ device can wirelessly control the ID-52E PLUS to change operating frequencies and other settings.

### Efficient Operations with Waterfall Display



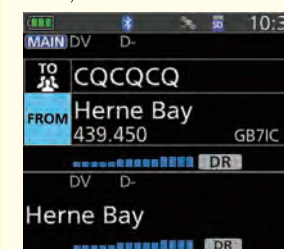
Waterfall display

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.

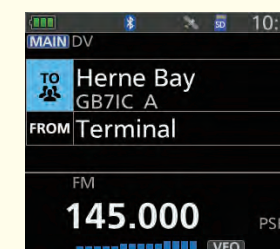
### V/V, U/U, V/U Dualwatch Including DV/DV Mode

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. In addition, dual operation of Terminal mode and Simplex/Repeater operations is now possible. While operating in Terminal mode, you can quickly respond by switching to regular RF operations.

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



DV/DV mode



Terminal/DV mode

### Chargeable with an USB Type-C™ Cable



The ID-52E PLUS features a USB Type-C™ port which is widely used in the industry, enabling USB charging. Additionally, it is a multifunctional USB port that supports PC programming, reading, and writing content to microSD cards, Terminal/Access Point mode compatibility, and CI-V control.

\* A USB adapter is required for charging.  
\* USB PD is not supported.

### VHF/UHF Airband and FM Broadcast Receiver

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

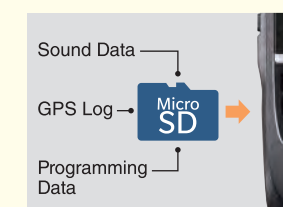
### Integrated GPS Receiver



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 PLUS 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



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 be loaded into the ID-52E PLUS radio.

### IPX7 Waterproof and Tough Construction



With Icom's pioneering IPX7 waterproofing and pro-grade construction, the ID-52E PLUS is perfect for your shack or operating in harsh outdoor environments.

### Other Features

- 750 mW loud audio output power
- DV fast data mode uses data in place of voice frames
- QSO log in CSV data format
- Accessories for the ID-50E/ID-52E such as battery packs and microphones can be used
- DV/FM near repeater search function
- Voice recorder function
- External DC power jack

VHF/UHF DIGITAL TRANSCEIVER  
**ID-52E PLUS**