



VHF/UHF DIGITAL TRANSCEIVER

# ID-52E PLUS

## Unleash the Excitement

Enjoy D-STAR Functions More Than Ever



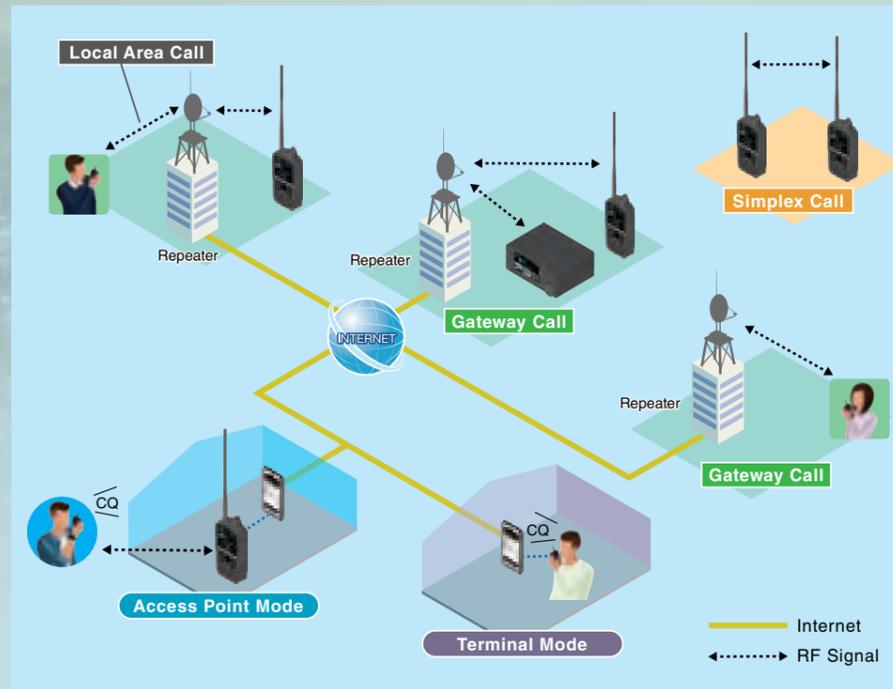
- Terminal Mode DV Gateway Repeat Mode
- COLOUR DISPLAY
- Bluetooth®
- GPS
- SPEAKER OUTPUT 750mW
- USB (Type-C)
- IPX7
- VHF/UHF AIRBAND
- Micro SD

**D-STAR**

# 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 a Smart Device for Terminal and AP Mode

The ID-52E PLUS can now connect wirelessly to a smart device (Android™ or iOS™) over Bluetooth® connection in the Terminal mode and Access Point mode. By connecting to a Android™ or iOS™ device with the RS-MS3A or RS-MS3I app, D-STAR 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, RS-MS3A, or RS-MS3I application is required to be installed in connected Windows, Android™, iOS™ device. 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 Windows, Android, or iOS device. 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.

## 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 × 280 pixels to achieve excellent viewability. The display background colour is selectable from black and white.

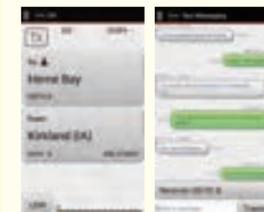


Black background



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.

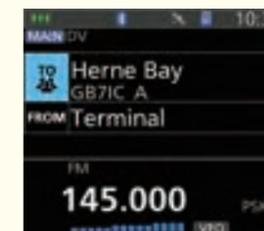
### V/V, U/U, V/U Dualwatch Including DV/DV Mode

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.

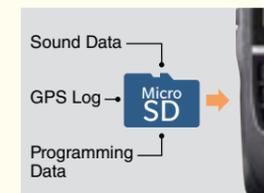
### Integrated GPS Receiver



GPS position with grid locator

DR-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**

**SPECIFICATIONS**

GENERAL			
Frequency coverage (Unit: MHz)	Version	Transmit	Receiver
	EUR	144 ~ 146, 430 ~ 440	(A) 108 ~ 174, 225 ~ 479* (B) 137 ~ 174, 375 ~ 479*
		Broadcast band	
		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 * 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 (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)	
Bluetooth®	Version 5.3, Class 2		
Profile	HFP, HSP, SPP, GATT (Serial) over LE		
Dimensions (WxHxD) (projections not included)	61.1 x 121.6 x 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)	-
	108.000-136.991	-	Less than 1 μV
A band	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 ~ 374.995 MHz.

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

Supplied accessories may differ depending on the transceiver version.

Icom 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. App Store is a service mark of Apple Inc. Windows is a trademark of the Microsoft group of companies. 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). Bluetooth® connection has not been tested for all Bluetooth® compatible devices with this product. This does not guarantee that all devices will work with this product.

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

**OPTIONAL ACCESSORIES**

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

<b>BATTERY PACKS AND CASE</b>  BP-272 BP-307	Battery packs	BP-272	BP-307	<b>WALL CHARGER</b>  BC-167S* * BC-167SA for USA plug, SD for Europe plug, SV for Australia plug.
	Type	Rechargeable Li-ion, 7.4 V	Rechargeable Li-ion, 7.2 V	
	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.				
<b>EARPHONE-MICROPHONES</b>  HM-153LS HM-166LS HM-257LS	<b>RAPID CHARGER</b>  BC-202IP2 Charges BP-272 in 2.5 hours and BP-307 in 4 hours (approx.) BC-123S* AC adapter supplied with the BC-202IP2, depending on version. * BC-123SA for USA plug, SE for Europe plug.			
	<b>SPEAKER-MICROPHONES</b>  HM-183LS Waterproof HM-186LS HM-243LS For remote control			
	<b>CIGARETTE LIGHTER CABLE</b>  CP-12L Built-in noise filter			
<b>HEADSETS and PLUG ADAPTER CABLE For VOX Operation</b>  HS-94 Earhook type HS-95 Neck arm type HS-97 Throat type OPC-2006LS Required when using any of these headsets			<b>DC POWER CABLE</b>  OPC-254L	
<b>EARPHONE</b>  SP-40 OPC-2144 required			<b>CARRYING CASE</b>  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-MS3I: Terminal/Access point mode application for iOS™
- 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