

 ICOM

VHF/UHF DIGITAL TRANSCEIVER

ID-52A PLUS

Unleash the Excitement

Enjoy D-STAR More Than Ever



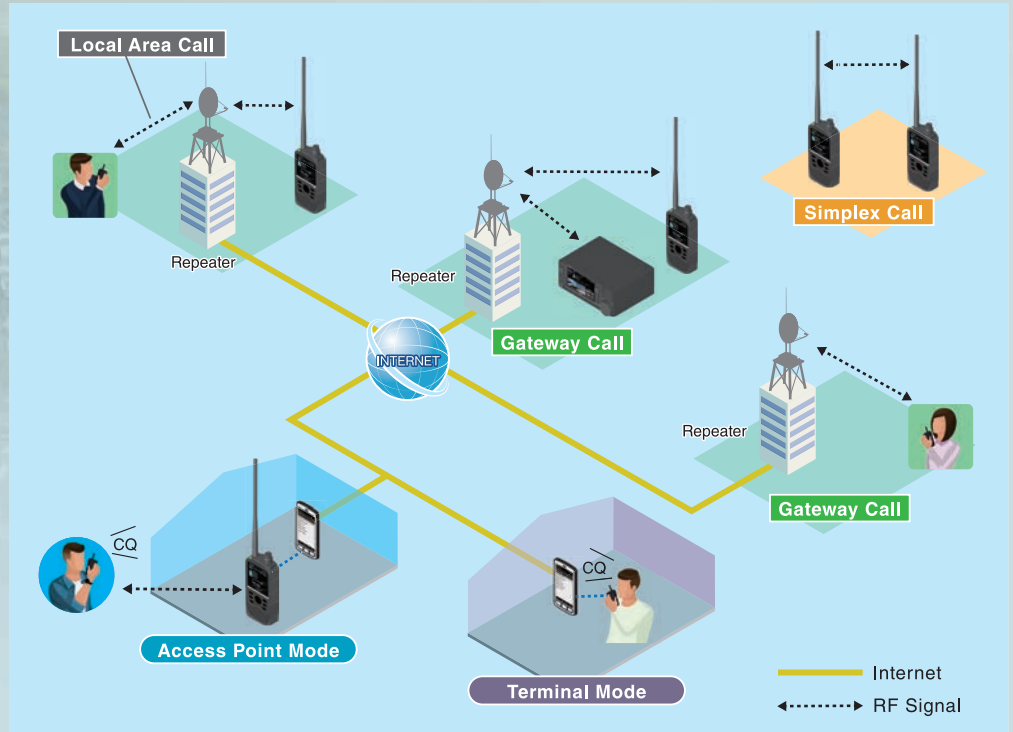
-  Terminal Block DV Gateway (Voice Point Mode)
-  COLOR DISPLAY
-  Bluetooth
-  GPS
-  SPEAKER OUTPUT 750mW
-  USB (Type-C)
-  IPX7
-  VHF/UHF AIRBAND
-  Micro SD

D-STAR[®]

Multifunctional Digital with

Worldwide D-STAR Communication

The ID-52A PLUS is a VHF/UHF dual bander supporting conventional FM communications as well as D-STAR simplex, repeater, regional, and worldwide calls over the Internet connected D-STAR network. With the ID-52A PLUS, you can call a friend in another city, or even internationally through D-STAR repeaters, with digital clear audio.



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ID-52A PLUS

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 color display (DV mode). Pictures taken on a smart device can be wirelessly transferred to the ID-52A PLUS through Bluetooth® connection.

* The Share Picture function requires the optional picture utility software ST-4001A (on Google Play™), ST-40011 (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-52A 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, 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-52A PLUS to a PC by a USB cable connected to the internet. When you are areas with no D-STAR repeaters, create your own D-STAR Access Point to access the D-STAR 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.

DV and FM Dual Mode

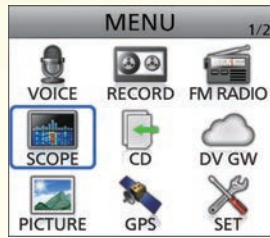
Advanced Functions and Operations

2.3" Large Color Display

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



Black background



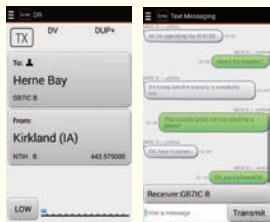
White background

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 3 programmable buttons that can be assigned functions to improve operability and mobility.



DR setting display example Text transmission display example

You can easily 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-52A 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.

Chargeable with a USB Type-C™ Cable



The ID-52A 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.

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

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-52A 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-52A PLUS radio.

IPX7 Waterproof and Tough Construction



With Icom's pioneering IPX7 waterproofing and pro-grade construction, the ID-52A 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-50A/ID-52A 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
		USA	144 ~ 148, 430 ~ 450*	(A) 108 ~ 174, 225 ~ 479* (B) 137 ~ 174, 375 ~ 479*
* (A) means A band, (B) means B band. * Guaranteed range: 144 ~ 148, 440 ~ 450 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, -4°F ~ +140°F			
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® Profile	Version 5.3, Class 2 HFP, HSP, SPP, GATT (Serial) over LE			
Dimensions (W×H×D) (projections not included)	61.1 × 121.6 × 34.8 mm, 2.4 × 4.8 × 1.4 in (with BP-272)			
Weight (approx.)	330 g, 11.6 oz (with BP-272 & antenna)			

TRANSMITTER		
Modulation system	DV FM, FM-N	GMSK reactance modulation, 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 FM, FM-N	Less than 0.2 μV (at 1% BER) 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)		

BC band	Frequency range (Unit: MHz)	FM/FM-N/WFM (12 dB SINAD)	AM/AM-N (10 dB S/N)
A band	88.000-108.000	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	-

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.

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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

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■ OPTIONAL ACCESSORIES

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

<p>BATTERY PACKS</p>  <p>BP-272 BP-307</p>	<table border="1"> <thead> <tr> <th>Battery packs</th> <th>BP-272</th> <th>BP-307</th> </tr> </thead> <tbody> <tr> <td>Type</td> <td>Rechargeable Li-ion, 7.4 V</td> <td>Rechargeable Li-ion, 7.2 V</td> </tr> <tr> <td>Capacity</td> <td>1880 mAh (min.) 2000 mAh (typ.)</td> <td>3050 mAh (min.) 3150 mAh (typ.)</td> </tr> <tr> <td>Operating time*</td> <td>7.25 hours (FM mode)</td> <td>12 hours (FM mode)</td> </tr> </tbody> </table> <p>* Approximate. Tx: Rx: standby = 1:1:8. Power save function Auto (Short), GPS OFF.</p>	Battery packs	BP-272	BP-307	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)	<p>WALL CHARGER</p>  <p>BC-167S*</p> <p>* BC-167SA for USA plug, SD for Europe plug, SV for Australia plug.</p>
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<p>EARPHONE-MICROPHONES</p>  <p>HM-153LS HM-166LS HM-257LS</p>	<p>RAPID CHARGER</p>  <p>BC-202IP3L BC-123S*</p> <p>Charges BP-272 in 3 hours and BP-307 in 5 hours (approx.)</p> <p>* BC-123SA for USA plug, SE for Europe plug.</p>													
<p>SPEAKER-MICROPHONES</p>  <p>HM-75LS HM-183LS HM-186LS HM-243LS</p> <p>For remote control Waterproof For remote control</p>	<p>Bluetooth® HEADSET</p>  <p>VS-3</p>	<p>CIGARETTE LIGHTER CABLE</p>  <p>CP-12L Built-in noise filter</p>												
<p>HEADSETS and PLUG ADAPTER CABLE For VOX Operation</p>  <p>HS-94 HS-95 HS-97 OPC-2006LS</p> <p>Earhook type Neck arm type Throat type Required when using any of these headsets</p>	<p>CARRYING CASE</p>  <p>LC-193</p>	<p>DC POWER CABLE</p>  <p>OPC-254L</p>												

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 on 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)
- OPC-2144: Plug adapter cable. Use with SP-40
- OPC-2480: USB cable (Type C - Type-A). Same as supplied
- OPC-515L: DC power cable for charging the battery pack