

ID-50E



QSO Anytime, Anywhere, with Easy

Global Communication with the D-STAR

The ID-50E is a compact VHF/UHF dual bander with both D-STAR (Digital Smart Technologies for Amateur Radio) and FM dual modes. Connecting to the Digital network, you can call a friend in another city, or other regions around the world with the ID-50E. Smart functions such as Band Scope and Picture Sharing function enhance your QSO experience. Enjoy worldwide communications through the D-STAR network.

Easy D-STAR Settings for Beginners

The DR function makes communications using D-STAR repeaters easier and simple. Just selecting "FROM" (access repeater) and "TO" (destination), you can make QSO calls including Local Area call, Gateway call, and Simplex call. Combined with the GPS function, you can make selection of a local repeater available based on your location. In addition, the DR function supports reflector linking controls.



DR function

Share Picture Function* to Expand the Fun of QSOs

You can share pictures with each other in the DV mode. Enjoy sharing pictures together with voice messages.

Share picture function requires the optional picture utility software ST-IDS0A (on Google Play™) or ST-ID50W (Download from Icom website) and user supplied USB Type-C to Type-C cable.



Build Your Own Internet Gateway

Even in the area with no D-STAR repeaters, build your own internet gateway (using Terminal mode and Access Point mode*) to access the D-STAR network virtually anywhere. Building an Access Point is easy, by connecting your ID-50E to a PC or an Android™ device connected to the internet, you will be able to make another D-STAR radio user to communicate through the D-STAR network over the air.

- *The RS-MS3W optional software (Download from Icom website) and user supplied USB Type-C/ USB Type-C cable are required for Access Point mode. The RS-MS3A optional application software (Download on Google PlayTM) and user supplied USB Type-C/USB Type-C cable are required for Terminal mode. 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 system, you need an IPv4 Global IP address assigned to your Android™ device.

Smart Functions and Operations

Easily Find Active Channels by Sight

The Band Scope with Waterfall display helps you to see band conditions in more detail and find active channels or an open frequency. The Waterfall display shows presence or absence of signals and even the signal level.

The Band Scope mode is usable in the Center mode, Fixed mode, and Fixed scroll mode. You can enjoy efficient and smart operations with it.



Waterfall display example

Reliable To Use in Rainy or Humid Environments

The ID-50E features superior IPX7* waterproofing and pro-grade construction. Perfect to take outdoors, even in harsh environments.

*1 m depth of water for 30 minutes.

Double QSO Opportunities with Dualwatch

The Dualwatch function* enables monitoring VHF/VHF, VHF/UHF and UHF/UHF bands at the same time. You can quickly respond to a call from the Main and Sub bands.

* DV/DV mode cannot be listened at the same time.







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ID-50

TRANSCEIVER

ID-50E

Enjoy D-STAR Text Message Communication

By installing RS-MS1A App on your Android™ device, you can easily send text messages

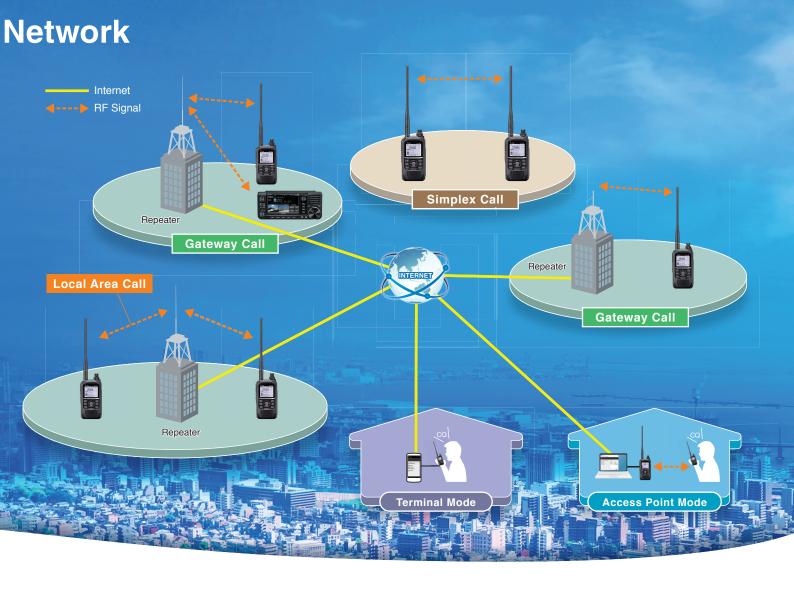
using your device's keyboard to enter text. Also the RS-MS1A can remotely control the transceiver operation and set various functions from your AndroidTM device.



Various Data Saving on a MicroSD Card

A microSD card (up to 32 GB) can store QSO Recording, TX Voice Memory, pictures, QSOs and GPS log data. Moreover, Firmware upgrades, Repeater lists, and other personal settings can be saved and uploaded into the ID-50E radio.

Functions and Smart Features



VHF Airband and FM Broadcast Receiver

FM broadcast and Airband can be listened to. You can enjoy receiving variety of channels.



VHF Airband receiver

Charging with a USB Type-C[™] Connector

The ID-50E has a USB type-C port which is widely used in the industry. It is a multi-function USB port for charging as well as PC programming, read/write contents to the microSD card, Terminal/Access Point mode support, and CI-V control.

Use a third-party USB cable for charging. USB PD is not supported.

Same Optional Accessories can be shared with the ID-52/51/31

Some accessories of the ID-52/ID-51/ID-31 series transceivers can be used for ID-50E. Moreover, the large capacity battery pack, BP-307 from the IC-705 is compatible with ID-50E as well. If you own these models, you can take advantage of sharing accessories.

I QSO Logs in CSV Data Format

Frequencies, modes, and GPS logs can be saved in the CSV data format. Various kinds of QSO information can be downloaded and easily managed.

High Visible LCD with Backlight Function

The ID-50E's large full dot LCD shows

graphical information with easy-to-read characters and icons. In addition, the LCD backlight helps when using in dark places.



Large full dot LCD

1750 mW Loud Audio Output Power

Built-in 750 mW powerful audio output. The internal speaker provides louder and clearer audio.

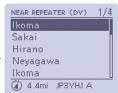
Other Features

- Easy-to-see Single Band Mode with large and bold characters.
- DV fast data mode uses data in place of voice frames
- Voice Recorder function
- External DC power jack

Find Nearby Repeaters at a New Location

With the built-in GPS, your location and current Grid Square information can be checked by other stations. You can check the distance to the other stations as well. Var-

ious GPS functions are usable with the GPS location data, such as Position Auto Reply, Near Repeater Search, and GPS log functions.



Repeater list

ID-50F

SPECIFICATIONS

GENERAL				
Frequency	Version	Transmit Re	ceiver	Broadcast band
coverage	ID-50E		108~174, 375~479*	76.00~108.00
(Unit: MHz)	#12 EUR		137~174, 375~479*	l
			I. Guaranteed Range:* 144	-146, 430~440 MHz
Type of emission		F2D, F3E, F7W		
Modes		DV, FM, FM-N, WFM, AM, AM-N (WFM, AM and AM-N are Rx only)		
Number of		500 memory channels, 4 call channels, 25 scan edges,		
memory channels		100 skip channels, 500 broadcast stations, 2500 repeater lists, 300 call signs, and 300 GPS memories		
Frequency resolution		5.0/6.25/8.33/10/12.5/15/20/25/30/50/100/125/200 kHz		
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	Battery pack	7.4 V DC (with BP-271/BP-272)		
supply	Alkaline cells	5.5 V DC (with BP-273)		
requirement	External DC	10.0 ~ 16.0 V DC		
Current drain	Tx high	Less than 2.5 A		
(at 7.4 V DC)	Rx AF max.	Less than 400 mA (FM, FM–N) (8 Ω),		
		Less than 450 mA (DV) (8 Ω)		
Dimensions (W×H×D)		$58.0 \times 111.0 \times 27.9$ mm, $2.3 \times 4.4 \times 1.2$ in (projections are not included)		
Weight (approx.)		300 g, 10.6 oz (with BP-272 & antenna)		
TRANSMITT	ER			
Modulation	DV	GMSK reactan	ce modulation	
system	FM, FMN	FM reactance modulation		
Output power		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		Less than ±5.0/2.5 kHz (FM/FM-N)		
Ext. Mic impedance		2.2 kΩ		
RECEIVER				
Sensitivity	ensitivity 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		
power	Dwer External SP More than 200 mW (8 Ω load)			
Receiver ser	nsitivity (exce	pt amateur ban	ds.)	
Receiver sei	nsitivity (exce	Frequency rang	ge FM/FM-N/WFM	AM/AM-N
		Frequency rang (Unit: MHz)	ge FM/FM-N/WFM (12 dB SINAD)	AM/AM-N (10 dB S/N)
BC band (Wi		Frequency rang (Unit: MHz) 76.000~108.00	ge FM/FM-N/WFM (12 dB SINAD) 0 Less than 1 μV	(10 dB S/N)
		Frequency rang (Unit: MHz) 76.000~108.000 108.000~136.9	ge FM/FM-N/WFM (12 dB SINAD) 0 Less than 1 μV 91 –	(10 dB S/N) - Less than 1 μV
BC band (Wi		Frequency rang (Unit: MHz) 76.000~108.00 108.000~136.9 137.000~142.00	ge FM/FM-N/WFM (12 dB SINAD) 0 Less than 1 μV 91 – 10 Less than 0.18 μV	(10 dB S/N) - Less than 1 μV
BC band (Wi		Frequency rang (Unit: MHz) 76.000~108.00 108.000~136.9 137.000~142.00 142.005~148.0	ge FM/FM-N/WFM (12 dB SINAD) 0 Less than 1 µV 91 — 100 Less than 0.18 µV 00 Less than 0.18 µV	(10 dB S/N) - Less than 1 μV
BC band (Wi		Frequency rang (Unit: MHz) 76.000~108.000 108.000~136.9 137.000~142.00 142.005~148.0 148.005~174.00	ge FM/FM-N/WFM (12 dB SINAD) 0 Less than 1 µV 91 - 100 Less than 0.18 µV 100 Less than 0.18 µV 100 Less than 0.32 µV	(10 dB S/N) - Less than 1 μV
BC band (Wi		Frequency rang (Unit: MHz) 76.000~108.00 108.000~136.9 137.000~142.00 142.005~148.0	ge FM/FM-N/WFM (12 dB SINAD) 0 Less than 1 µV 91 - 100 Less than 0.18 µV 100 Less than 0.18 µV 100 Less than 0.32 µV	(10 dB S/N) - Less than 1 μV
BC band (Wi		Frequency rang (Unit: MHz) 76.000~108.000 108.000~136.9 137.000~142.00 142.005~148.0 148.005~174.00	ge FM/FM-N/WFM (12 dB SINAD) 0 Less than 1 µV 10 Less than 0.18 µV 10 Less than 0.18 µV 10 Less than 0.32 µV 10 Less than 0.32 µV 10 Less than 0.5 µV	(10 dB S/N) - Less than 1 μV
BC band (Wi		Frequency rang (Unit: MHz) 76.000~108.000 108.000-136.9 137.000~142.00 142.005-148.0 148.005-174.00 375.000-399.9	ge FM/FM-N/WFM (12 dB SINAD) 0 1	(10 dB S/N) - Less than 1 μV
BC band (Wi		Frequency rang (Unit: MHz) 76.000~108.000 108.000~136.9 137.000~142.00 142.005~148.0 148.005~174.0 375.000~399.9 400.000~479.0	ge FM/FM-N/WFM (12 dB SINAD) 0 Less than 1 µV 91 10 Less than 0.18 µV 100 Less than 0.18 µV 100 Less than 0.32 µV	(10 dB S/N) - Less than 1 μV
BC band (Wi		Frequency rang (Unit: MHz) 76.000-108.00 108.000-136.9 137.000-142.00 142.005-148.0 148.005-174.00 375.000-399.9 400.000-479.0 137.000-142.00	ge FM/FM-N/WFM (12 dB SINAD) 0 Less than 1 µV 91 00 Less than 0.18 µV 00 Less than 0.18 µV 00 Less than 0.32 µV 00 Less than 0.38 µV 00 Less than 0.18 µV 00 Less than 0.18 µV	(10 dB S/N) - Less than 1 μV
BC band (Wi		Frequency rang (Unit: MHz) 76.000–108.00 108.000–136.9 137.000–142.00 142.005–148.0 148.005–174.0 375.000–399.9 400.000–479.0 137.000–142.0 142.005–148.0	ge FM/FM-N/WFM (12 dB SINAD) 0 Less than 1 µV 91 00 Less than 0.18 µV 00 Less than 0.18 µV 00 Less than 0.32 µV 00 Less than 0.32 µV 00 Less than 0.32 µV 01 Less than 0.32 µV 02 Less than 0.18 µV 03 Less than 0.18 µV 04 Less than 0.18 µV 05 Less than 0.18 µV 06 Less than 0.18 µV 07 Less than 0.32 µV 08 Less than 0.32 µV 09 Less than 0.32 µV	(10 dB S/N) - Less than 1 μV

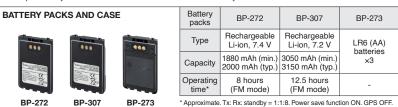
All stated specifications are subject to change without notice or obligation.

• Battery pack, BP-272 • Antenna, FA-S270C Supplied accessories • 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 dealers for details







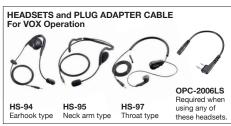
(Type-A - USB Type-C™.)





*¹ BC-123SA for USA plug, SE for Europe plug.
 *² BC-258A for USA plug, E for Europe plug, V for Australia plug.
 *³ BC-167SA for USA plug, SD for Europe plug, SV for Australia plug.















APPLICATION SOFTWARE

•RS-MS1A: Remote control application for Android™

•RS-MS3A: Terminal/Access point mode application for Android™

•RS-MS3W: Terminal/Access point mode software for Windows™ PC

•CS-50: Programming software for Windows™ PC •ST-ID50A: Picture utility software for Android™

•ST-ID50W: Picture utility software for Windows™ PC

Applications for Android™ can be freely downloaded on Google Play™. Software for WindowsTM 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

•BC-202IP3L: Rapid charger. Connectable up to 6 units •BC-228: AC adapter for BC-202IP3L multiple connections

Les spécifications et informations données dans ce document peuvent être modifiées sans préavis.

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