ID-50E

SDECIEIC ATIONS

Frequency	Version	Transmit Re	ceiver	Broadcast band
coverage (Unit: MHz)	ID-50E #12 EUR		108~174, 375~479* 137~174, 375~479*	76.00~108.00
	(A) means A ban	d, (B) means B band	. Guaranteed Range:* 144-	~146, 430~440 MHz
Type of emis	sion	F2D, F3E, F7W		
Modes		DV, FM, FM-N, WFM, AM, AM-N (WFM, AM and AM-N are Rx only)		
Number of memory channels		500 memory channels, 4 call channels, 25 scan edge 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		
		-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-271/BP-272)		
	Alkaline cells	5.5 V DC (with BP-273)		
	External DC	10.0 ~ 16.0 V DC		
Current drain (at 7.4 V DC)	Tx high	Less than 2.5 A		
	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 (appr	rox.)	300 g, 10.6 oz (with BP-272 & antenr	na)
TRANSMITT	ER			
Modulation system	DV	GMSK reactance modulation		
	FM, FM-N	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)		
Spurious em			ibili (LOWL, LOW I, O	iow)
	ncy deviation		2.5 kHz (FM/FM-N)	iow)
Max. frequer				iow)
Max. frequer Ext. Mic impe		Less than ±5.0/		iow)
Max. frequer Ext. Mic impe	edance DV	Less than $\pm 5.0/$ 2.2 k Ω Less than 0.2 μ	2.5 kHz (FM/FM-N) V (at 1% BER)	iow)
Max. frequer Ext. Mic import RECEIVER Sensitivity	edance	Less than $\pm 5.0/$ 2.2 k Ω Less than 0.2 μ Less than 0.18	2.5 kHz (FM/FM-N) V (at 1% BER) μV (at 12 dB SINAD)	
Max. frequer Ext. Mic impore RECEIVER Sensitivity Selectivity	DV FM, FM-N	Less than $\pm 5.0/$ 2.2 k Ω Less than 0.2 μ Less than 0.18 More than 50 dl	2.5 kHz (FM/FM-N) V (at 1% BER) μV (at 12 dB SINAD) B (DV, FM-N), more the	
Max. frequer Ext. Mic impore RECEIVER Sensitivity Selectivity Spurious reje	DV FM, FM-N	Less than $\pm 5.0/$ 2.2 k Ω Less than 0.2 μ Less than 0.18 More than 50 dl More than 60 dl	2.5 kHz (FM/FM-N) V (at 1% BER) µV (at 12 dB SINAD) B (DV, FM-N), more tl B	
Max. frequer Ext. Mic impore RECEIVER Sensitivity Selectivity Spurious reje Audio output	DV FM, FM-N ection	Less than $\pm 5.0/$ 2.2 k Ω Less than 0.2 μ Less than 0.18 More than 50 dl More than 60 dl More than 750	2.5 kHz (FM/FM-N) V (at 1% BER) μV (at 12 dB SINAD) B (DV, FM-N), more the B mW (8 Ω load)	
Max. frequer Ext. Mic impore RECEIVER Sensitivity Selectivity Spurious reje Audio output power	DV FM, FM-N ection Internal SP External SP	Less than ±5.0/ 2.2 kΩ Less than 0.2 μ Less than 0.18 More than 50 dl More than 60 dl More than 750 dl	2.5 kHz (FM/FM-N) V (at 1% BER) U (at 12 dB SINAD) B (DV, FM-N), more tl B mW (8 Ω load) mW (8 Ω load)	
Max. frequer Ext. Mic impore RECEIVER Sensitivity Selectivity Spurious reje Audio output power	DV FM, FM-N ection Internal SP External SP	Less than ±5.0/ 2.2 kΩ Less than 0.2 μ Less than 0.18 More than 50 dl More than 60 dl More than 750 m More than 200 m pt amateur band	2.5 kHz (FM/FM-N) V (at 1% BER) μV (at 12 dB SINAD) B (DV, FM-N), more tl B mW (8 Ω load) mW (8 Ω load)	nan 55 dB (FM)
Max. frequer Ext. Mic impore RECEIVER Sensitivity Selectivity Spurious reje Audio output power	DV FM, FM-N ection Internal SP External SP	Less than ±5.0/ 2.2 kΩ Less than 0.2 μ Less than 0.18 More than 50 dl More than 60 dl More than 750 dl	2.5 kHz (FM/FM-N) V (at 1% BER) μV (at 12 dB SINAD) B (DV, FM-N), more tl B mW (8 Ω load) mW (8 Ω load)	
Max. frequer Ext. Mic impore RECEIVER Sensitivity Selectivity Spurious reje Audio output power	DV FM, FM-N ection Internal SP External SP nsitivity (exce	Less than ±5.0/ 2.2 kΩ Less than 0.2 μ Less than 0.18 More than 50 dl More than 750 More than 200 opt amateur bann Frequency rang	2.5 kHz (FM/FM-N) V (at 1% BER) μV (at 12 dB SINAD) B (DV, FM-N), more till mW (8 Ω load) mW (8 Ω load) ds.) e FM/FM-N/WFM (12 dB SINAD)	nan 55 dB (FM)
Max. frequer Ext. Mic impr RECEIVER Sensitivity Selectivity Spurious reje Audio output power Receiver se	DV FM, FM-N ection Internal SP External SP nsitivity (exce	Less than ±5.0/ 2.2 kΩ Less than 0.2 μ Less than 0.18 More than 50 dl More than 60 dl More than 750 i More than 200 i ot amateur band Frequency rang (Unit: MHz)	2.5 kHz (FM/FM-N) V (at 1% BER) μV (at 12 dB SINAD) B (DV, FM-N), more the B mW (8 Ω load) mW (8 Ω load) ds. e FM/FM-N/WFM (12 dB SINAD) Less than 1 μV	nan 55 dB (FM)

All stated specifications are subject to change without notice or obligation

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

142.005~148.000 Less than 0.18 uV

148.005~174.000 Less than 0.32 μ\ 375.000~399.995 Less than 0.5 μV 400.000~479.000 Less than 0.32 μV

137.000~142.000 Less than 0.18 μV 142 005~148 000 Less than 0 18 uV

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

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







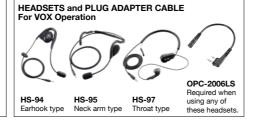




*1 BC-123SA for USA plug, SE for Europe plug.
 *2 BC-258A for USA plug, E for Europe plug, V for Australia plug.
 *3 BC-167SA for USA plug, SD for Europe plug, SV for Australia plug.















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 Windows™ PC can be freely downloaded from the Icom website

- ·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

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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.icomamerica.com

www.icomcanada.com

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QSO Anytime, Anywhere, with Easy Functions and Smart Features

Global Communication with the D-STAR Network

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.



Share Picture Function* to Expand the Fun of QSOs

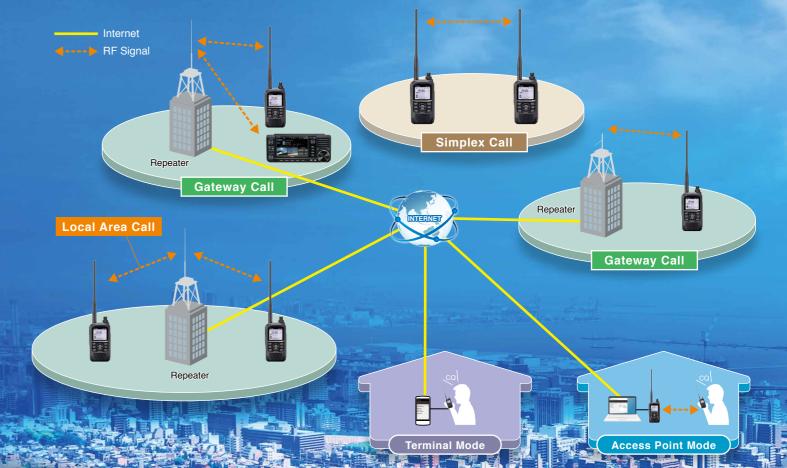
You can share pictures with each other in the DV mode. Enjoy sharing pictures together with voice messages.



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

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 Play™) 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 repeate administrator to contact the local Icom Distributor to upgrade the software.



Smart Functions and Operations

I 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





Eniov 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 An-



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.

145.000

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





I Various Data Saving on a MicroSD Card

VHF/UHF

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.

VHF Airband and FM Broadcast Receiver

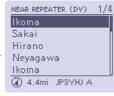
FM broadcast and Airband can be listened to. You can enjoy receiving variety of channels.



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.



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 informa-

tion with easy-toread 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 iack



VHF/UHF DUAL BAND DIGITAL

ID-50E