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VHF/UHF DUAL BAND DIGITAL TRANSCEIVER

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((() SPEAKER OUTPUT 750mW

VHF

MicroSD

**GPS** 

IPX7



# Your Perfect Traveling Companion!





D-STAR

## **QSO** Anytime, Anywhere, with Easy

## **Global Communication with the D-STAR Net**

The ID-50A is a compact VHF/UHF dual bander with both D-STAR (Digital Smart Technologies for Amateur Radio) and FM dual modes. Connecting to the D-STAR network, you can call a friend in another city, or other regions around the world with the ID-50A. 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.

requires the optional picture utility software ST-ID50A (on Google ay™) 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-50A to a PC or an Android<sup>™</sup> 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 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 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<sup>™</sup> device.



#### VHF/UHF DUAL BAND DIGITAL TRANSCEIVER



## **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 with it. Waterfall display example



#### **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 Android<sup>™</sup> device.



DR setting display example display example

#### Reliable To Use in Rainy or Humid Environments

The ID-50A 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

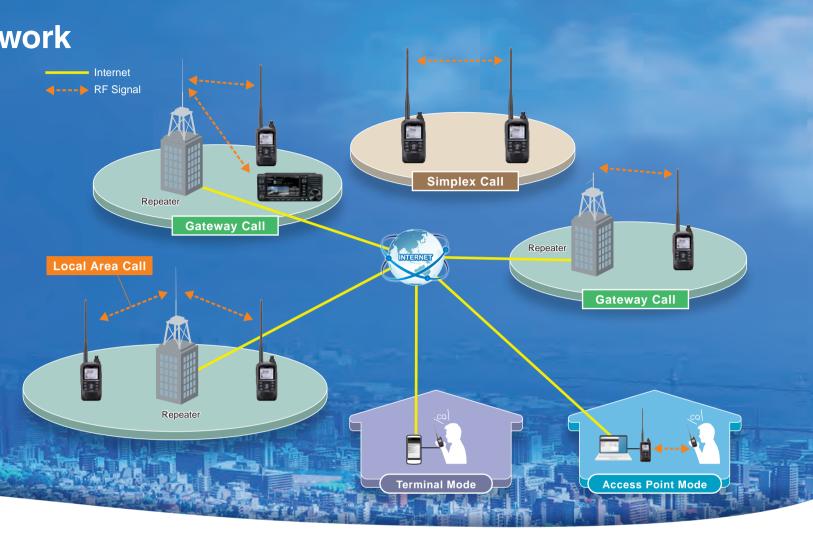
The Dualwatch function\* enables monitoring VHF/VHF. VHF/UHF and UHF/UHF bands at the same time. You can guickly respond to a call from the Main and Sub bands. \* DV/DV mode cannot be listened at the same time.



#### 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-50A 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

## 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.

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

NEAR REPEATER (DV)	1/
lkoma	
Sakai	
Hirano	
Neyagawa	
Ikoma	
<li>4.4mi JPSYHJ A</li>	

Repeater list

#### Charging with a USB Type-C™ Connector

The ID-50A 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-50A. Moreover, the large capacity battery pack, BP-307 from the IC-705 is compatible with ID-50A 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-50A's large full dot LCD shows

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



Large full dot LCD

#### 750 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
- Weather channel receive (USA/CAN)

#### **SPECIFICATIONS**

Supplied accessories

~ ailable in some countries. Blesse ook your dealers for details

Werage (nit: MHz)     ID-50A     144~148, 430~450'     (A) 108-174, 375~479'     88.00~108.00     packs     packs     packs       (i) means A band, (B) means B band, Guaranteed Range: * 144~148, 440–450 MHz     (A) means A band, (B) means B band, Guaranteed Range: * 144~148, 440–450 MHz     Type     Rechargeable Lion, 7.4 V     Rechargeable Lion, 7.4 V       pe of emission     F2D, F3E, F7W     Type     Rechargeable Lion, 7.4 V     Type     Type     Rechargeable Lion, 7.4 V     Type     Ty	etails.
(A) means A band, (B) means B band. Guaranteed Range:* 144–148, 440–450 MHz     Type     Techna radia (B)       pe of emission     F2D, F3E, F7W     Capacity     1880 mAh (min.)     3050       odes     DV, FM, FM-N, WFM, AM, AM-N     DV     FM, FM-N, WFM, AM, AM-N     3150	BP-307 BP-273
pe of emission     F2D, F3E, F7W     Capacity     1880 mAh (min.) 2000 mAh (typ.)     3050 3150       odes     DV, FM, FM-N, WFM, AM, AM-N     The second seco	chargeable -ion, 7.2 V LR6 (AA)
odes DV, FM, FM-N, WFM, AM, AM-N	0 mAh (min.) batteries
	0 mAh (typ.)
umber of emory channels   500 memory channels, 4 call channels, 25 scan edges, 100 skip channels, 500 broadcast stations, 2500 repeater lists, 300 call signs, and 300 GPS memories   BP-272   BP-307   BP-273   * Approximate. Tx: Rx: standby = 1:1:8. Pd	FM mode)
equency resolution 5.0/6.25/3.33/10/12.5/15/20/25/30/50/100/125/200 kHz	
	IONE-MICROPHONES
equency stability ±2.5 ppm (-20°C ~ +60°C on the basis of 25°C)	
ntenna impedance 50 Ω (SMA)	
wer Battery pack 7.4 V DC (with BP-271/BP-272)	
IPPly Alkaline cells 5.5 V DC (with BP-273)	
quirement External DC   10.0 ~ 16.0 V DC	$ \land \land$
urrent drain Tx high Less than 2.5 A	
t 7.4 V DC) Rx AF max. Less than 400 mA (FM, FM-N) (8 Ω), BC-202IP2 + BC-123S <sup>11</sup> BC-258 <sup>12</sup>	- I di di di
Less than 450 mA (DV) (8 Ω) Less than 450 mA (DV) (8 Ω) BC_123S is surplied Charges BP-272/BP-307. Use with a USB cable	-153LS HM-166LS
(Projections are not included)	
eight (approx.) 300 g, 10.6 oz (with BP-272 & antenna) 50-1235 ki tro GSA plug, 5 tor Europe plug, 50-236 ki tro GSA	siralia piuy.
RANSMITTER	
DV GMSK reactance modulation SPEAKER-MICROPHONES HEADSETS and PLUG ADAPT	ER CABLE
Stem FM, FM-N FM reactance modulation For VOX Operation	$\frown$
utput power 5 W, 2.5 W, 1.0 W, 0.5 W, 0.1 W(High, Mid, Low2, Low1, S-low)	$\frown$ ( )
purious emissions Less than -60 dBc (High, Mid), Less than -13 dBm (Low2, Low1, S-low)	
ax. frequency deviation Less than ±5.0/2.5 kHz (FM/FM-N)	
t Micimpedance 22 k0	OPC-2006LS
HM-243LS HM-183LS HM-186LS	S-97 Required wher
	S-97 using any of roat type these headsets
FM, FM-N Less than 0.18 µV (at 12 dB SINAD)	inese neadset
electivity More than 50 dB (DV, FM-N), more than 55 dB (FM) CARRYING CASE CIGARETTE LIGHTER DC POWER CABLE	PLUG ADAPTER
purious rejection More than 60 dB	CABLE
Mille than of db	
dio output Internal SP More than 750 mW (8 Ω load)	
eceiver sensitivity (except amateur bands.)	OPC-2144
Frequency range FM/FM-N/WFM AM/AM-N	Required when using
	any of HM-75A, HM-153
(Unit: MHz) (12 dB SINAD) (10 dB S/N) LC-202 CP-12L	HM-166 or SP-40.
LC-202     LC-202     CP-12L     CP-12L     OPC-254L	
LC-202     LC-202     CP-12L     Built-in noise filter     OPC-254L       band     108.000-136.991     —     Less than 1 μV     —     Use with BP-272 or BP-273.     Built-in noise filter     OPC-254L	
(Unit: MH2)     (12 dB SINAD)     (10 dB S/N)     LC-202     CP-12L     OPC-254L       band     108.000-136.991     -     Less than 1 μV     -     Use with BP-272 or BP-273.     Built-in noise filter     OPC-254L	
LC-202     LC-202     CP-12L     Built-in noise filter     OPC-254L       band     108.000~136.991     -     Less than 1 μV     -     Less than 1 μV     -     Band     Less than 0.18 μV     Less than 1 μV     -     Less than 1 μV     -     Band     Less than 0.18 μV     Less than 1 μV     -     Less than 1 μV     -     Less than 1 μV     -     Band     -     Less than 1 μV     -     -     Less than 1 μV     -	
LC-202     CP-12L     CP-12L       band     108.000-136.991     -     Less than 1 μV     -       band     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     -     -	
LC-202     LC-202     LC-21     CP-12L     OPC-254L       band     108.000~136.991     -     Less than 1 µV     -     Less than 0.18 µV     Less than 1 µV     -     Less than 0.18 µV     -     Less than 0.18 µV     -     <	
LC-202     Use with BP-272 or BP-273.     CP-12L     OPC-254L       band     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 0.58 μV     -       375.000~399.995     Less than 0.32 μV     -       975.000~399.995     Less than 0.32 μV     -       975.000~399.995     Less than 0.32 μV     -       976.0007472.000     Less than 0.32 μV     -       975.000~399.995     Less than 0.32 μV     -       976.0007472.000     Less than 0.32 μV     -       976.0007472.000     Less than 0.32 μV     -       976.0007472.000     Less than 0.32 μV     -       977.0007472.000     Less than 0.32 μV     -	
(Unit: MH2)     (12 dB SINAD)     (10 dB S/N)     LC-202     CP-12L     OPC-254L       band     108.000~136.991     -     Less than 1 µV     -     Less than 1 µV     Built-in noise filter     OPC-254L       band     108.000~142.000     Less than 0.18 µV     -     Less than 1 µV     -     Built-in noise filter     OPC-254L       142.005~148.000     Less than 0.18 µV     -	
Unit: MH2     (12 dB SINAD)     (10 dB S/N)     LC-202     CP-12L     OPC-254L       band     108.000-136.991     -     Less than 1 µV     -     Less than 0.18 µV     Less than 0.18 µV     -     -     Less than 0.18 µV     -<	
LC-202     LC-202     LC-21L     OPC-254L       band     108.000-136.991     -     Less than 1 μV     -       band     108.000-136.991     -     Less than 1 μV     -       137.000-142.000     Less than 0.18 μV     -     -       375.000-399.995     Less than 0.58 μV     -     -       375.000-399.995     Less than 0.58 μV     -     -       400.000-479.000     Less than 0.58 μV     -     -       band     137.000-142.000     Less than 0.58 μV     -       400.000-479.000     Less than 0.58 μV     -     -       band     137.000-142.000     Less than 0.18 μV     -     -       142.005-148.000     Less than 0.18 μV     -     -     -  <	
LC-202     LC-202     LC-21L     OPC-254L       band     108.000-136.991     -     Less than 1 μV     -       band     108.000-136.991     -     Less than 1 μV     -       137.000-142.000     Less than 0.18 μV     -     -       375.000-399.995     Less than 0.58 μV     -     -       48.005-174.000     Less than 0.32 μV     -     -       400.000-479.000     Less than 0.32 μV     -     -       band     137.000-142.000     Less than 0.32 μV     -       400.000-479.000     Less than 0.32 μV     -     -       band     137.000-142.000     Less than 0.18 μV     -     -       400.000-479.000     Less than 0.32 μV     -     -       band     137.000-142.000     Less than 0.18 μV     -     -       142.005-148.000     Less than 0.32 μV     -     -     -       142.005-148.000     Less than 0.18 μV     -     -     -       148.005-174.000     Less than 0.32 μV     -     -     -       148.005-174.0	
LC-202     LC-202     LC-21L     OPC-254L       band     108.000-136.991     -     Less than 1 μV     -       band     108.000-136.991     -     Less than 1 μV     -       137.000-142.000     Less than 0.18 μV     -     -       375.000-399.995     Less than 0.58 μV     -     -       375.000-399.995     Less than 0.58 μV     -     -       400.000-479.000     Less than 0.58 μV     -     -       band     137.000-142.000     Less than 0.58 μV     -       400.000-479.000     Less than 0.58 μV     -     -       band     137.000-142.000     Less than 0.18 μV     -     -       142.005-148.000     Less than 0.18 μV     -     -     -  <	

#### 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

\* Supplied accessories may differ depending on the transceiver version.

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

Battery pack, BP-272 • Antenna, FA-S270C
Belt clip, MB-127 • Hand strap

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