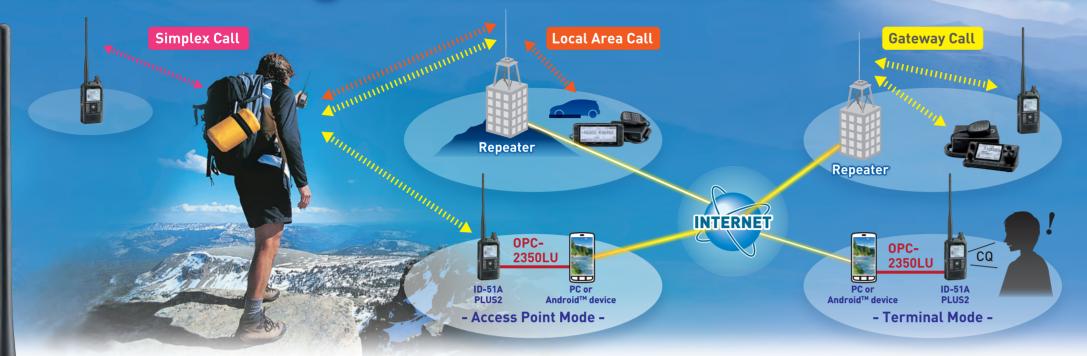


Worldwide Digital Communication Whenever You Like



D-STAR Communication with Digital Clear Voice and Data

The ID-51A is a VHF/UHF dual bander and has digital/FM dual mode functions The ID-51A makes not only conventional FM local calls, but also D-STAR calls through a repeater network connected worldwide, or calls over an Internet gateway. With the ID-51A, you can call a friend in another city, or even internationally through a D-STAR repeater, with digital clear audio. In addition, the ID-51A can send digital voice with data; text messages, GPS position information and pictures

DR (D-STAR Repeater) Function

The DR (D-STAR Repeater) function makes D-STAR communication simple. By only selecting a destination call sign in "To", and a nearby repeater in "From", you can talk with other D-STAR users. The call is automatically routed to the repeater destination the called user last



Access Point Mode and Terminal Mode Expand D-STAR Coverage

New modes in the ID-51A PLUS2 enable you to make Gateway calls through a PC (Windows®) or an Android™ device, even from areas where no D-STAR repeater is accessible.

Access Point Mode

Use the ID-51A radio connected to the Internet through a PC (Windows®) 443 35 or Android™ device*. as an Access point. You can use another D-STAR radio to send your voice and/or data through the Access Access point mode example point radio.

145.000



Terminal Mode

Connect the ID-51A to the Internet through a PC (Windows®) or $\bar{\text{Android}}^{\text{TM}}$ device*, and send your voice and/or data through the Internet gateway to a destination repeater.



* An optional free download software, RS-MS3W is required to be installed in the PC. An optional free download application, RS-MS3A is required to be installed in the Android™ device

Enhanced Digital Data Communication with Android™ Devices

RS-MS1A, Remote Control Application for Android™

The RS-MS1A enables you to control the ID-51A* with your Android™ device. You can see the location of repeater sites on a map application and set them to the ID-51A. In addition, text messages and pictures can be sent and received with your Android™ device.

* The OPC-2350LU data cable is required to connect to an Android™ device. Note: Please check the system requirements on the Google Play™ RS-MS1A page before installing the application.

DV Fast Data Mode*

* The DV Fast Data mode is not compatible with the DV mode low-speed data



950 bps DV Fast Data Mode

V/V, U/U, V/U Dualwatch

Integrated GPS Receiver

Shows your current position and altitude on

the display, and offers a position reporting

function, in the DV mode. When receiving a

call addressed to your call sign, the ID-51A

can automatically send your current position

information*1. Between ID-51A's communication,

replied position information can pop up on

the caller's display. Using the integrated

GPS*2 and repeater memories, the ID-51A

searches for nearby DV or analog FM repeaters.

*2 To use the Repeater Search function, the position data of the

repeater is required. The ID-51A will be shipped with D-STAR

repeater memories preprogrammed, but the position data of

some D-STAR repeaters may not be entered or exact.

*1 Function not available on all D-STAR networks.

The dualwatch function can monitor VHF/VHF, UHF/UHF or VHF/UHF bands simultaneously.3 The audio and squelch levels can be set separately for the main and sub-bands.



Independent AM/FM Receiver

FM and AM broadcast stations can be listened to while using the dualwatch function. When an amateur radio band signal is received, the broadcast station is automatically muted.

Integrated GPS, Dualwatch, AM/FM Receiver, IPX7 Submersible and More



■Voice Memory Function*

The QSO recorder function records incoming and outgoing calls. The voice recorder function can record an off-line conversation. The recorded voice message can be repeatedly transmitted. (Up to 60 seconds × 1 channel)

microSD card required

microSD Card Slot

into the ID-51A radio.

When used with a microSD card (Up to 32 GB).

you can store various content including voice

memory, DV auto reply message, TX voice

message, QSO log, RX history log and GPS log

data. Memory channels, D-STAR repeater

memories and other personal settings can be

saved to the microSD card, and can be loaded



Voice recorder example

Other Functions

- · Compact and lightweight
- 5 W output power
- 4.5 hour long lasting battery life with the BP-271*1
- Free download CS-51PLUS2 cloning soft for editing various memory settings with a PC
- A total of 1304 memory channels, including 750 D-STAR repeater memories
- CTCSS/DTCS code squelch with split tone function
- · Automatic repeater function automatically turns on/off duplex operation and tone encoder
- 16 DTMF memory channels (24 digits)
- · Optional CT-17, CI-V level converter for remote radio control
- · Squelch release function to monitor a weak signal
- External DC power jack
- Earphone cord antenna for FM broadcast receiving
- LCD and keypad backlighting

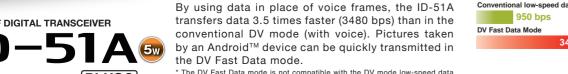
*2 See specifications page for receiver range details

- · Weather channels and VHF air band and other utility communication can be listened to*2
- Priority watch
 High speed cloning
- Auto power save Auto power off
- Clock function
 Key lock function Typical operation with 1:1:8 duty cycle in DV mode. (Power save ON.)





IPX7 submersible construction (1 m depth of water for 30 minutes)





Auto Reply

JL3YRP

ID-51A

* DV/DV, AM/AM, FM-N/FM-N and DV/FM-N mode Dualwatch not

RAPID CHARGER

Charges BP-271/ BP-272 in 2/3.5 hours.

BC-202

SPECIFICATIONS

GENERAL							
Frequency coverage (Unit: MHz)							
Version	Transmit	Receiver	Broadcast				
USA	144–148,	(A) 137–174, 380–479*	0.52-1.71				
USA	430-450*	(B) 108-174, 380-479*	88.0-108.0				

(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, AM (Rx only)			
Number of memory channels	1304 channels (including 500 regular channels, 750 D-STAR repeater, 50 scan edges and 4 call)			
Frequency resolution	1*, 5, 6.25, 8.33*, 9*, 10, 12.5, 15, 20, 25 30, 50, 100, 125 and 200 kHz * Selectable depending on the operating band.			
Operating temperature range	-20°C to +60°C; -4°F to +140°F			
	, , , , , , , , , , , , , , , , , , ,			
Frequency stability	±2.5 ppm (-20°C to +60°C on the basis of 25°C)			
 Power supply requirement Alkaline cells External DC power 	7.4 V DC (with BP-271, BP-272) 5.5 V DC (with BP-273) 10–16 V DC			
• Current drain (at 7.4 V DC) Tx High Rx Internal SP (16 Ω) External SP (8 Ω)	Less than 2.5 A Less than 450 mA/350 mA (DV/FM, FM-N) Less than 300 mA/200 mA (DV/FM, FM-N)			
Antenna impedance	50 Ω (SMA)			
 Dimensions (W x H x D, projections not included) 	58 × 105.4 × 26.4 mm; 2.3 × 4.1 × 1.0 in			
Weight (approx.)	170 g; 6 oz (without battery), 255 g; 9 oz (with BP-271 & 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 0.28 µV (at 1% BER)			
	FM FM-N	Loce than 0.18 uV (at 12 dB SINAD)			

K	RECEIVER		
Sensitivity DV, FM, FM-N	Less than 0.28 μV (at 1% BER) Less than 0.18 μV (at 12 dB SINAD		
Selectivity DV	More than 50 dB		
FM	More than 55 dB		
FM-N	More than 50 dB		
 Spurious rejection 	More than 60 dB		
 Audio output power Internal SP (16 Ω load) External SP (8 Ω load) 	(at 7.4 V DC, 10% distortion) More than 400 mW More than 200 mW		

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

Supplied accessories

- Battery pack, BP-271
- Wall charger, BC-167SA
- Antenna, FA-S270C Belt clip, MB-127
- Programming software, CS-51PLUS2

OPTIONS

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









BC-167S*2 BC-123SA for USA plug, SE for Europe plug. *2 BC-167SA for USA plug, SD for Europe plug, SV for Australia plug.



BC-123S*1









OPC-254L/LR

CARRYING CASE





SOFTWARES FOR Android/PC*

USB DATA CABLE

OPC-2350LU PC/Android™ data cable

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-51PLUS2: Programming software for Windows® PC. Same as supplied.

* Applications for Android can be freely download from Google Play. Software for Windows PC can be freely download from the Icom website

OTHER OPTIONS

AD-92SMA: SMA-BNC antenna adapter CT-17: CI-V level converter

FA-S270C: VHF/UHF antenna. Same as supplied MB-127: Belt clip. Same as supplied

Function Comparison Chart

	RS-MS1A	Repeater search function	DV fast data mode	Terminal mode	Access point mode
ID-51A PLUS2	Yes	Yes (DV/FM repeater)	Yes	Yes	Yes
ID-51A PLUS	Yes	Yes (DV/FM repeater)	Yes	-	_*
ID-51A	Yes (Limited functions)	Yes (DV repeater)	-	-	-*

* ID-51A and ID-51A PLUS can transmit voice and /or data through the Access point, but can not be used as an Access point

Note for the Terminal mode and Access point mode:

- Before you set up the Access point, check any regulations or laws in your country.
- Only one D-STAR transceiver can transmit through an Access point at a time.
- For Access point or Terminal mode operation, you must register your MY and Access point call signs with a Gateway repeater/server that has the RS-RP3C installed.

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