

**5000**  
Units Only  
(Worldwide)

## 50th Anniversary Limited Edition with New Features



### D-STAR

#### DV Fast Data Mode\*

By using data in place of voice frames, the ID-51A transfers data three times faster than in the DV mode. Pictures taken by an Android™ device can be quickly transmitted in the DV Fast Data mode.

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

Conventional low-speed data mode

**950bps**

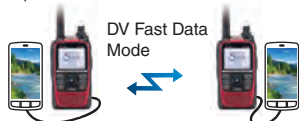
DV Fast Data Mode

**3480bps**

#### RS-MS1A, Free Download Android™ Application

The RS-MS1A allows you to connect your Android™ device to the ID-51A\*. You can see the location of repeater sites on a map application and set them to the ID-51A. Text messages and pictures can be sent and received with your Android™ device.

\* The optional OPC-2350LU data cable is required to connect to an Android™ device.



#### DV and FM Repeater Search Function

The repeater search function searches for nearby analog FM repeaters as well as DV repeaters using the repeater memories and the integrated GPS\*.

\* To use the repeater search function, the position data of the repeater is required.

#### Additional Dplus Reflector Link Commands

Dplus reflector link commands are added to the DR function to allow easy multiple repeater connection through the reflector.

#### Both Long Antenna and Standard Antenna Supplied

In addition to the standard antenna, a long antenna is supplied with the ID-51A. The long antenna is optimal for wideband reception including AM/FM broadcast and the VHF air bands.

Long antenna (Left), Standard antenna (Right)



#### Other New and Enhanced Functions (Compared to the ID-51A)

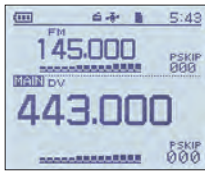
- Increased repeater groups from 25 to 30
- No gateway icon appears when the repeater does not connect to the gateway
- GPS position data can be sent in the low-speed data communication mode
- Enhanced D-PRS functions with Base/Object/Item/Weather formats
- Altitude data added to the GPS memories
- CI-V commands added for new functions
- Callsign, repeater list and GPS memory import and export in the CSV format

**Features retained from the ID-51A**

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

The dualwatch function simultaneously monitors VHF/VHF, UHF/UHF and VHF/UHF bands\*.

\* DV/DV, AM/AM, FM-N/FM-N and DV/FM-N mode dualwatch is not available.



VHF/UHF dualwatch

**IPX7 Waterproof Construction**

The ID-51A has superior IPX7 waterproof protection (1m depth of water for 30 minutes). It can be used in harsh outdoor environments, and for hiking, mountain biking, touring and mountain sports.

\* When used with the long antenna, the ID-51A has IPX3 water spray resistance.



**Independent AM/FM Receiver**

FM and AM broadcast and VHF airband stations can be listened to while using the dualwatch function to monitor the ham bands. When a ham band signal is received, the broadcast station is automatically muted.



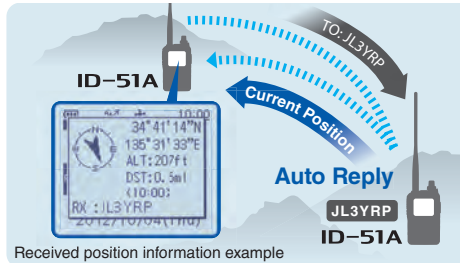
AM + dualwatch receive

**microSD Card Slot**

When used with a microSD card (Up to 32GB), various contents including voice memory, DV auto reply message, TX voice message, QSO log, RX history log and GPS log data can be stored. The microSD card can also be used to update firmware and edit memories.

**Integrated GPS Receiver**

Your current position and altitude are shown on the display and offers a position reporting function in DV mode. The GPS log function logs your position information at regular intervals on the microSD card.



Received position information example

**Other Features**

- TX voice memory (1 channel, 60 seconds)
- SPEECH function announces the received call sign (DV Mode), frequency, and mode
- QSO recorder function records incoming and outgoing calls. The voice recorder function can record an off-line conversation.
- 128 x 104 dot large full dot-matrix display
- CSV formatted communication log
- DR (D-STAR repeater) function makes it easy to access D-STAR repeaters
- 10-step battery voltage indicator

**SPECIFICATIONS**

GENERAL			
Frequency coverage	(Unit: MHz)		
Version	Transmit	Receiver (working range)	Broadcast
ID-51A (USA)	144-148, 430-450*1	A Band: 137-174, 380-479 B Band: 108-174*2, 380-479	0.52-1.710, 88-108
*1 Guaranteed range: 144-148, 440-450MHz. *2 AM mode only for 108-136.995MHz.			
Type of emission	F2D, F3E, F7W		
Number of memory channels	1304 channels (including repeater, program scan edges and call channels)		
Operating Temp. range	-20°C to +60°C; -4°F to +140°F		
Frequency stability	±2.5ppm (on the basis of 25°C)		
Power supply requirement	7.4V DC (with BP-271, BP-272) 5.5V (with BP-273)		
External DC power	10-16V DC		
Current drain (at 7.4V DC)	Tx High Rx Internal SP (16Ω) External SP (8Ω)		
Antenna impedance	50Ω (SMA)		
Dimensions (W×H×D, projections not included)	58×105.4×26.4 mm; 2.28×4.15×1.04 in		
Weight (approx.)	255g; 8.99oz (with BP-271 & standard antenna)		
TRANSMITTER			
Modulation system	DV, FM	GMSK reactance modulation, FM reactance modulation	
Output power (at 7.4V DC)	5W, 2.5W, 1.0W, 0.5W, 0.1W (High, Mid, Low2, Low1, S-low)		
Spurious emissions	Less than -60dBc (High, Mid), Less than -13dBm (Low2, Low1, S-low)		
Max. frequency deviation	±5.0/2.5kHz (FM/FM-N)		
Ext. Mic impedance	2.2kΩ		
RECEIVER			
Sensitivity	DV, FM, FM-N	Less than 0.28μV (at 1% BER) Less than 0.18μV (at 12dB SINAD)	
Selectivity	DV, FM-N, FM	More than 50dB More than 55dB	
Spurious rejection	More than 60dB		
Audio output power	(at 7.4V DC, 10% distortion) Internal SP (16Ω load) External SP (8Ω load)		
More than 400mW More than 200mW			
Applicable IP Rating			
Ingress Protection Standard (With battery pack and standard antenna)			
Water	IPX7 (Waterproof protection)		
Supplied accessories (* Depending on version)			
● Battery pack, BP-271 ● Wall charger, BC-167SA/SD* ● Standard antenna, FA-S270C ● Long antenna, FA-S270E ● Cloning software, CS-51PLUS ● Belt clip, MB-127 ● Hand strap			

**OPTIONS**

New options for ID-51A 50th anniversary limited edition are shown in red italic.

**BATTERY PACKS AND CASE**

- BP-271: 7.4V/1150mAh (min.), 1200mAh (typ.) Li-Ion battery
- BP-272: 7.4V/1880mAh (min.), 2000mAh (typ.) Li-Ion battery
- BP-273: LR6 (AA) x 3 battery case

**BATTERY CHARGERS**

- BC-167SA/SD: Wall charger (12V/500mA output)
- BC-202: Rapid desktop charger. Charges the BP-271/272 in 2/3.5 hours (approx.).

**CIGARETTE LIGHTER AND DC POWER CABLE**

- CP-19R: Cigarette lighter cable with DC-DC converter
- CP-12L: Cigarette lighter cable with noise filter
- OPC-254L/LR: DC power cable

**SPEAKER-MICROPHONES AND EARPHONE**

- HM-75LS: Remote control speaker microphone
- HM-186LS: Compact type speaker microphone
- HM-153LS: Durable type earphone microphone
- HM-166LS: Light type earphone microphone
- SP-13: Earphone (OPC-2144 required)
- OPC-2144: Slim L-type plug adapter cable (Regular 2-pin connectors to slim L-type 2-pin connectors)

**HEADSETS**

- HS-94: Earphone-headset (OPC-2006LS required)
- HS-95: Behind-the-head headset (OPC-2006LS required)
- HS-97: Throat microphone (OPC-2006LS required)
- OPC-2006LS: VOX plug adapter cable

**Android™ APPLICATION AND DATA CABLE**

- RS-MS1A: Free download software from Google Play™
- OPC-2350LU: Data cable for Android™ device

**CLONING SOFTWARE AND DATA CABLE**

- CS-51PLUS: Cloning software
- OPC-2218LU: Data communication cable (USB type)

**OTHER OPTIONS**

- AD-92SMA: BNC-type antenna connector adapter
- CT-17: CI-V level converter
- FA-S270C: VHF/UHF standard antenna
- LC-179: Carrying case
- MB-127: Alligator type belt clip
- SJ-1: Silicon jacket case (For use with BP-271)

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