



## PRE-RELEASE INFORMATION

VHF/UHF DUAL BAND TRANSCEIVERS

**ID-51A** (USA Version)

**ID-51E** (Europe Version)

# Extends Coverage, Display and Capabilities Without Sacrificing Compactness and Usability



### Dualwatch

Receives two bands simultaneously  
V/V, U/U, V/U possible

### AM/FM Receiver

Independent AM/FM broadcast  
receiver receives broadcast stations

### IPX7 Submersible

The ID-51A/E is submersible to  
1m depth water for 30 minutes

### Slim & Compact

Packed with loads of features in  
this slim, compact body

### D-STAR DV Mode

D-STAR (Digital Smart Technology  
for Amateur Radio) is standard

### Integrated GPS

Provides position reporting and  
GPS logging functions

### microSD Card Slot

Offers voice and data storage and  
memory data cloning

### Voice Memory

Records incoming and outgoing calls  
and can be used as a voice recorder

## Compact Dual Bander

The 26.4mm slim body contains 5W output, VHF/UHF dual bands, a rich D-STAR and integrated GPS receiver feature set.

## Independent AM/FM Receiver

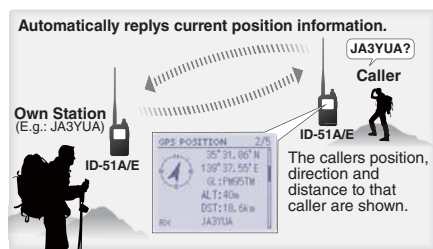
FM, AM and shortwave broadcast stations can be listened to, while using the dualwatch function for monitoring ham bands. When a ham band signal is received, the broadcast station is automatically muted.



FM broadcast receive AM + dualwatch receive  
\* Showing Japan version screen shots.

## Automatic Position Reply Function (DV mode)

When receiving a call addressed to your call sign, this function automatically transmits your current position information. If the radio loses the GPS signal, the last position information with date and time information can be sent.



## OPTIONS

### 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.).

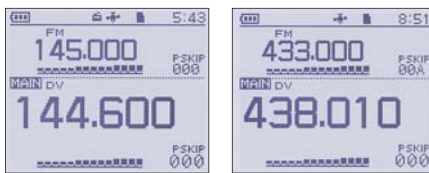
### CIGARETTE LIGHTER AND DC POWER CABLE

CP-19R : Cigarette lighter cable with DC-DC converter  
CP-12L : Cigarette lighter cable with noise filter  
OPC-254L : DC power cable (12V DC required)

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

The ID-51A/E receives two bands simultaneously including in the same band\*.

\* When DV modes are set in main and sub bands, sub band audio will be muted.



VHF/VHF dualwatch UHF/UHF dualwatch

## Other Features

- TX voice memory (1 channel, 60 seconds) for repeated calls
- Voice synthesizer function announces frequency, mode and call sign
- Voice memory function records incoming and outgoing calls and can be used as a voice recorder
- 128x104 dots large full dot-matrix display (1.6 times larger than the ID-31A/E)
- CSV formatted communication log
- 10-step battery voltage indicator
- Integrated GPS receiver with GPS logging function
- IPX7 submersible (1 meter depth water for 30 minutes)
- microSD card slot for voice and log data storage and data cloning
- DR (D-STAR repeater) mode operation makes it easy to access D-STAR repeaters
- Repeater search function searches up to 20 nearby repeater sites

### 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

## 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
ID-51E (EURO)	144-146, 430-440	A Band: 144-146, 430-440 B Band: 144-146, 430-440	0.52-1.710, 76-108
		*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	
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)	
Alkaline cells			
External DC power		10-16V DC	
Current drain (at 7.4V DC)			
Tx High		Less than 2.5A	
Rx Internal SP (16Ω)		Less than 450mA/350mA (DV/FM)	
External SP (8Ω)		Less than 300mA/200mA (DV/FM)	
Antenna impedance		50Ω (SMA)	
Dimensions (WxHxD, projections not included)		58x105.4x26.4 mm	
Weight (approx.)		255g (with BP-271 & 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		Less than 0.28μV (at 1% BER)	
FM, FM-N		Less than 0.18μV (at 12dB SINAD)	
Selectivity DV, FM-N		More than 50dB	
FM		More than 55dB	
Spurious rejection		More than 60dB	
Audio output power		(at 7.4V DC, 10% distortion)	
Internal SP (16Ω load)		More than 400mW	
External SP (8Ω load)		More than 200mW	
Applicable IP Rating			
Ingress Protection Standard			
Water		IPX7 (Waterproof protection)	
Supplied accessories (* Depending on version)			
● Battery pack, BP-271		● Wall charger, BC-167SA/SD*	
● Antenna, FA-S270C		● Belt clip, MB-127	
● Cloning software, CS-51		● Hand strap	

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