O ICOM

VHF/UHF DIGITAL TRANSCEIVER

D-STAR Continues to Evolve

6.7 1

13.000

5.000



D-STAR Dualwatch GPS Submersible Broadcast Radio

aac

D-STAR

Actual size



VHF/UHF Dual Bander, Integrated GPS, **Compact & Versatile Multi-H**

Compact Dual Bander

Lightweight & Compact Body

The ID-51A has a compact 58×105.4×26.4 mm body, and weighs only 255g (approx.) with battery pack and antenna. In this slim body, the ID-51A contains 5W output power, VHF/UHF dual band, D-STAR and integrated GPS receiver.



ID-31A ID-51A

D-STAR DV Mode

D-STAR DV Mode (Digital Voice + Data)

The D-STAR (Digital Smart Technology for Amateur Radio) DV mode is the leading amateur radio digital format

DR (D-STAR Repeater) Mode Operation

The DR (D-STAR repeater) mode operation allows vou to connect to D-STAR repeaters and users more effortlessly. In this mode, just two simple steps are needed.

	🕂 🖬 10:30
B	DV DUP+
TO SBS	Hirano JPSYHH B
ROM	Bellevue/N7IH 443.575 N7IH B
2	012/12/03(Mon)

DR Mode example

Convenient Functions

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



Broadcast radio example

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

The dualwatch function monitors VHF/VHF, UHF/ UHF and VHF/UHF bands simultaneously.* The audio and squelch levels can be set separately for the main and sub-bands. *DV/DV AM/AM EM-N/EM-N

and DV/FM-N modes dualwatch not available.



Automatic Repeater List-up Function

Using the GPS position information, the automatic repeater list-up function shows the list of nearby D-STAR repeaters from the memory* and helps you quickly access the nearby D-STAR repeater.

RPT LIST	GRP 19	7/13
Tueson		1
Las Veg	jas/N7A	RR
Pinal N	lountair	1
Bellevu	e/N7IH	
Los Ala	mos	
谢스	N7IH	В
Reneater I	list exampl	e

* To use the automatic repeater list-up 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 available.

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 transmitted repeatedly. (Up to 60 seconds × 1 channel) * microSD card required.



microSD Card Slot

When used with a microSD card (Up to 32GB), the microSD card can store various contents 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 to the ID-51A transceiver.

SPEECH Function

The SPEECH function announces the received call sign (DV Mode), operating frequency, and/or mode. (Depends on users settings.)

VHF/UHF DIGITAL TRANSCEIVER D-51A



Broadcast Receiver, IPX7 Submersible… Function Digital Transceiver

Integrated GPS

Integrated GPS Receiver

The integrated GPS receiver provides fast start-up time and accurate position. Your current position and altitude are shown on the display and offers a position reporting function in DV mode. The GPS-A mode assists in easy D-PRS operation.

Automatic Reply Function (DV Mode)

When receiving a call addressed to your call sign, the ID-51A can automatically reply your current position information*. Between ID-51A's communication, replied position information can pop up on the caller's display.

* Function not available on all D-STAR networks.





GPS receiver transparent image

GPS Log Function*

The GPS log function logs your position information at regular intervals (1 second–60 seconds, depending on the setting) and memorizes this in the microSD card to export to your PC. The GPS logger only mode turns on the GPS logger function with the radio in sleep mode.

* microSD card required.



Durability and Easy Operation

IPX7 Submersible Construction

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



Other Features

5W Output Power

Using a highly-efficient PA amplifier, the ID-51A generates 5W of RF output power from this compact body.

Long Lasting Battery Pack

The supplied BP-271 provides up to 4.5 hours* of operating time, and the optional large capacity battery pack, BP-272 provides up to 7.5 hours*.

 * Typical operation with 1:1:8 duty cycle in DV mode. (Power save ON.)

- Total 1,304 memory channels including 700 D-STAR repeater memories
- Analog FM mode with CTCSS/DTCS code squelch
- Automatic repeater function* automatically turns on/off duplex operation and tone encoder
 * USA, Korea and Export versions only
- 16 DTMF memory channels (24 digits)
- Auto power save
 Auto power off
 Clock function
- Priority watch
 Key lock function

Menu-Driven User Interface

The directional keypad and quick menu button help you with quick and intuitive access to many settings and speeds up the operation. The large full dot-matrix display with easy-to-read characters increases the amount of information.



Direct Rapid Charging

Recharge the ID-51A by plugging the supplied wall charger directly in the radio. The BP-271 can be charged in 3 hours (approx.) when the power is OFF.

CS-51 Cloning Software Supplied

The CS-51 cloning software is supplied with the ID-51A for editing various memory settings from a PC. (Supplied with the application CD)

- CI-V level converter for remote radio control
- Squelch release function to monitor a weak signal
- External DC power jack
- Earphone code antenna for FM broadcast
- LCD and keypad backlighting
- Weather channels and VHF air band and other utility communication can be listened to*
 *
 Weather channels are available for USA version only
 - * Weather channels are available for USA version only. See specifications page for receiver range details.



SPECIFICATIONS

		- C	SENERAL		
• Frequen	icy coverage (Ur	nit: M	Hz)		
Version	Transmit		Receiver	Broadcast	
USA	144–148,) 136–174, 380–479*1	0.52-1.71	
034	430-450* ¹		3) 108–174, 380–479* ¹	88.0-108.0	
EXP EXP-01	137–174,) 136–174, 380–479* ²	0.52-1.71	
	400-479*2		3) 108–174, 380–479* ²	76.0-108.0	
	144–148,) 136–174, 380–479* ²	0.52-1.71	
	430-440 144-148,		8) 108–174, 380–479* ² 1) 136–174, 380–479* ²	76.0-108.0	
AUS	420–450* ²	L \	3) 108–174, 380–479 3) 108–174, 380–479* ²	76.0-108.0	
A) means	A Band, (B) mean			70.0-100.0	
			10–450MHz. *2 144–148, 43	30-440MHz	
	-	10, 11			
• Type of	emission		F2D, F3E, F7W		
Mode Number of memory channels			DV, FM, FM-N 1304 channels (including 500 regular		
Number	or memory char	liters	channels, 700 D-STAR repeater, 100 pro-		
			gram scan edges and 4 call)		
Frequen	cy resolution		1*, 5, 6.25, 8.33*, 9*, 10		
ricquei	loy resolution		30, 50, 100, 125 and 200kHz		
			* Selectable depending on the operating band.		
 Operatir 	ng temperature ra	ande	-20°C to +60°C; -4°F to		
	cy stability		±2.5ppm		
			(-20°C to +60°C on the basis of 25°C)		
 Power s 	upply requireme	ent	7.4V DC (with BP-271,	BP-272)	
	ne ce ll s		5.5V DC (with BP-273)		
Extern	nal DC power		10–16V DC		
 Current 	drain (at 7.4V D	C)			
Tx H	ligh		Less than 2.5A		
	nternal SP (16Ω)		Less than 450mA/350mA (DV/FM, FM-N)		
External SP (8Ω)			Less than 300mA/200mA (DV/FM, FM-N)		
 Antenna impedance 			50Ω (SMA)		
 Dimensions (W×H×D, 			58×105.4×26.4 mm; 2.2	28×4.15×1.04 in	
	ons not included)			
• Weight (approx.)		170g; 6oz (without battery), 255g; 8.99oz (with BP-271 & antenna)		
		TD 4	-	27 1 & antenna)	
		IKA	NSMITTER	1	
• wodulati	ion system DV, FM, F	M-N	GMSK reactance modu FM reactance modulati		
	ower (at 7.4V D		5W, 2.5W, 1.0W, 0.5W, 0.1W		
• Output p		(0)	(High, Mid, Low2, Low1, S-low)		
Sourious	s emissions		Less than -60dBc (High		
- opunou	3 61113310113		Less than -13dBm (Low2, Low1, S-low)		
• Max. fre	quency deviatio	n		±5.0/2.5kHz (FM/FM-N)	
	impedance		2.2kΩ		
		R	ECEIVER		
• Sensitivity DV, FM, FM-N			Less than 0.28µV (at 19	6 BER)	
			Less than 0.18µV (at 12dB SINAD)		
 Selectivi 			More than 50dB		
FM FM-N			More than 55dB		
			More than 50dB		
Spurious rejection			More than 60dB		
Audio output power		(at 7.4V DC, 10% distortion)			
Internal SP (16Ω load)			More than 400mW		
Exterr	nal SP (8Ω load)		More than 200mW		
Supplie	d accessories	(*Dep	ending on version)		
 Batte 	ry pack, BP-271		• Wall charger, BC-167S	A/SD/SV*	
	EA 00700				

• Belt clip, MB-127

 Antenna, FA-S270C Cloning software, CS-51
 Hand strap

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

D-STAR (Digital Smart Technology for Amateur Radio) is a digital radio protocol developed by JARL (Japan Amateur Radio League). Icom, Icom Inc. and the Icom logo are registered trademarks of Icom Incorporated (Japan) in the United States, the United Kingdom, Germany, France, Spain, Russia, Japan and/or other countries. All other trademarks are the properties of their respective holders.

ICOM Inc. 1-1-32, Kami-minami, Hirano-ku, Osaka 547-0003, Japan Phone: +81 (06) 6793 5302 Fax: +81 (06) 6793 0013

Icom America Inc.

2380 116th Avenue NE 2300 Holin Avenue NE, Bellevue, WA 98004, U.S.A. Phone :+1 (425) 454-8155 Fax :+1 (425) 454-1509 E-mail : sales@icomamerica.com URL : http://www.icomamerica.com

Icom Canada

Glenwood Centre #150-6165 Highway 17, Delta, B.C., V4K 5B8, Canada Phone : +1 (604) 952-4266 Fax : +1 (604) 952-0090 mail : info@icomcanada.com RL : http://www.icomcanada.com URL

Icom Brazil

Rua Pernambuco, 353 - Sala 901 Belo Horizonte, M.G. 30130-150, Brazil Phone : +55 (31) 3582 8847 Fax : +55 (31) 3582 8987 E-mail : sales@icombrazil.com

Icom (Europe) GmbH

Communication Equipment Auf der Krautweide 24 65812 Bad Soden am Taunus, Germany Phone : +49 (6196) 76685-0 : +49 (6196) 76685-50 Fax E-mail : info@icomeurope.com URL : http://www.icomeurope.com

Icom Spain S.L.

Ctra. Rubi, No. 88 "Edificio Can Castanver Ctra. Hubi, No. 88 "Editicio Can Casta Bajos A 08174, Sant Cugat del Valles, Barcelona, Spain Phone: +34 (93) 590 26 70 Fax : +34 (93) 590 04 46 E-mail : icom@icomspain.com URL : http://www.icomspain.com

Icom Polska

81-850 Sopot, ul. 3 Maja 54, Poland Phone : +48 (58) 550 7135 Fax : +48 (58) 551 0484 E-mail : icompolska@icompolska.com.pl URL : http://www.icompolska.com.pl URI

Icom (UK) Ltd.

Blacksole House, Altira Park, Herne Bay, Kent, CT6 6GZ, U.K. Phone : +44 (0) 1227 741741 Fax : +44 (0) 1227 741742 E-mail : info@icomuk.co.uk URL : http://www.icomuk.co.uk

Icom France s.a.s.

Zac de la Plaine, 1 Rue Brindejonc des Moulinais, BP 45804, 31505 Toulouse Cedex 5, France Phone : +33 (5) 61 36 03 03 Fax : +33 (5) 61 36 03 00 E-mail : icom@icom-france.com URL : http://www.icom-france.com

Icom (Australia) Pty. Ltd.

Unit 1 / 103 Garden Road, Clayton, VIC 3168 Australia Phone : +61 (03) 9549 7500 Fax : +61 (03) 9549 7505 E-mail : sales@icom.net.au URL : http://www.icom.net.au

Icom New Zealand

LC-179

HS-97

CARRYING CASE

Throat type

146A Harris Boad, East Tamaki, Auckland, New Zealand Phone : +64 (09) 274 4062 Fax : +64 (09) 274 4708 E-mail : inquiries@icom.co.nz URL : http://www.icom.co.nz

Asia Icom Inc.

6F No. 68, Sec. 1 Cheng-Teh Road, Taipei, Taiwan, R.O.C. Phone: +886 (02) 2559 1899 Fax : +886 (02) 2559 1874 E-mail : sales@asia-icom.com URL : http://www.asia-icom.com

Beijing Icom Ltd.

10C07, Long Silver Mansion, No.88, Yong Ding Road, Haidian District, Beijing, 100039, China Phone : +86 (010) 5889 5391/5392/5393 Fax : +86 (010) 5889 5395 E-mail : bjicom@bjicom.com URL : http://www.bjicom.com 13GS0010 © 2013 Icom inc.

Count on us!



Same as supplied. MB-127 BELT CLIP Same as supplied.

AD-92SMA ANTENNA ADAPTER SMA-BNC antenna adapter. SP-13 FARPHONE

FA-S270C VHF/UHF ANTENNA

OPC-2144 is required. CS-51 CLONING SOFTWARE

Your local distributor/dealer:







CP-12L

WALL CHARGER

ID - 51A





SILICONE JACKET

SJ-1

CASE

www.icom.co.jp/world



SLIM L-TYPE PLUG



Same as supplied.



BATTERY PACKS AND CASE

BP-271

...

RAPID CHARGER

BC-202

HM-186LS

HEADSETS and PLUG ADAPTER CABLE

HS-95

CT-17

Behind-the-head type

SPEAKER-MICROPHONES

HM-75LS

HS-94

Earhook type

CI-V LEVEL

CONVERTER

LIGHTER CABLES

CP-19F