



Innovation and **Mobility** Taken to the Next Level



Touch Screen Operation DV/DV Dualwatch Integrated GPS Receiver

> DV/FM Repeater List D-STAR DV Mode Bluetooth® Android™



Innovation and **Mobility** Taken to the Next Level

	Сом SUB FM ¥ 13:30 и ПО-5100
VOL-3-SQL D-STAR	146.580
DIAL	PSKIP D-1 RX>CS CD CS SCAN MONI
	MENU HOME DR QUICK
Apove photo shown with ontional MBE-1 mount base and MBA	-2 controller bracket. Some photos (screen shots) shown with optional UT-133 Bluetooth® unit installed.

DV/FM Repeater List Function

The DV/FM repeater list function assists you accessing nearby repeaters, even in areas you are visiting for the first time. The function searches for a nearby repeater using the repeater memories with the GPS position information.

* To use the automatic repeater list function, the position data of the repeater is required. The ID-5100A will be shipped with a limited number of repeater memories preprogrammed.

Dplus Reflector Linking

Dplus reflector link commands are added to the DR function to

allow easy reflector operation. Use Reflector, link/unlink to Reflector, echo test and repeater information commands are selectable.

Γ	≣ REFLECTOR	1/2≣
	Use Reflector	
	Link to Reflector	
	Unlink Reflector	
	Echo Test	Ð
B	teflector commands example	

SD Card Slot for Voice and Data Storage

When used with an SD card, the SD 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, repeater memories and other personal settings can be saved to the SD card and can be loaded to the transceiver.

VS-3 Bluetooth® Headset

The optional Bluetooth[®] headset, VS-3 provides hands-free communication and can remotely control the ID-5100A with three programmable buttons. Providing you with convenient communication in a vehicle.

* Optional UT-133 Bluetooth® unit must be installed in the ID-5100A.



Intuitive Touch Screen Operation

The intuitive touch screen interface provides quick and smooth operation. The large 5.5 inch display (320×128 pixels) responds naturally

to the touch allowing you to change settings, enter frequencies, edit memory channels with ease.

DIRECT INPUT(UR)															
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(Using optional MBF-1 mount base and MBA-2 controller bracket)

DV/DV Dualwatch

The ID-5100A can receive both FM/FM and FM/DV mode signals simultaneously. Two DV mode signals can be monitored for receive on either channel. You can check other

SUE DY

19:34 + W MAIN

12 cococo

repeaters or other channel activities while waiting for the main repeater.



Integrated GPS Receiver

The ID-5100A has an integrated GPS receiver in the controller and shows own position, course, speed and altitude on the display. The GPS position information can be used for exchanging position reports, tracing the GPS log and searching for nearby repeater sites.

2	34" 37, 23" N 135" 34, 17" E GL: PW7450	A :DI22	*
5	ALT: 25Ft DST: 15ml	COURSE: 61" SPEED: 0.0	noh I
(9:34)			
RX (MAIN)	JABYUA-A		1112

RS-MS1A Android[™] Application (Free download application from Google Play[™])

The RS-MS1A allows you wirelessly connect the ID-5100A and remotely set DR functions, link with a map application and send/receive messages over the DV mode. In addition, pictures taken by the Android[™] device can be transmitted over the DV mode.

Some functions may not work properly, depending on Android"

phones and devices used



© Google



Other Features

- Enhanced D-PRS functions with object, position, items and weather formats
- Convenient memory contents management using CSV format
- Speech function announces operating frequency, mode and received callsign (DV mode)
- Independent main, volume and SQL knobs for A/B bands
- AM airband dualwatch
- CS-5100, cloning software supplied
- 50W output power on both VHF and UHF bands
- Weather channel with weather alert function (USA version only)
- Auto repeater function (USA version only)



vhf/uhf dual band digital transceiver

VHF/UHF DUAL BAND DIGITAL TRANSCEIVER

SPECIFICATIONS

		GENERAL				
Frequency coverage		(unit:MHz)				
, , , ,	Version	Transmit	Receiver			
	USA	144-148, 430-450*1	118-174, 375-550"			
	EXP	137-174, 400-470'2	118-174, 375-550'2			
		Guaranteed range: "1 144-148, 4	40-450MHz. ² 144-148, 430-440MH			
Type of emission		F2D, F3E, F7W				
Mode		DV, FM, FM-N				
		AM (RX only), AM-N (RX only)* Depending on versio				
Operating temperature r	ange	-10°C to +60°C ; +14°F to +140°F				
Frequency stability		±2.5ppm (-10°C to +60°C on the basis of 25°C)				
Digital TX speed		4.8kbps				
Voice coding speed		2.4kbps				
Antenna impedance		50Ω (SO-239)				
Number of memory cha	nnels		call channels, 50 program			
		scan edges and 1200 repeater memories				
Power supply requireme		13.8C DC ±15%				
Current drain	RX Stand-by	1.2A				
	Max. audio	1.8A (Dualwatch, with Ext. SP 8Ω load)				
<u> </u>	TX	13.0A				
Dimensions (W×H×D, projections not included)	Main unit	150×40×172.6 mm; 5.91 × 1.57 × 6.8 in				
	Controller	182.2×81.5×24.7 mm; 7.17 × 3.21 × 0.97 in				
Weight (approx.)	Main unit	1.3kg; 2.87 lb				
	Controller	260g; 9.17 oz				
	T	RANSMITTER				
Output power		50W, 15W, 5W				
Modulation system	FM, FM-N	FM reactance modulation				
	DV	GMSK reactance modulation				
Max. frequency deviatio	n	±5.0kHz/±2.5kHz (FM/FM-N)				
Spurious emissions		Less than -60dBc				
Microphone impedance		600Ω (8−pin modular jack	;)			
		RECEIVER				
Intermediate frequencies	A band	38.85MHz/450kHz (1st /2nd)				
	B band	46.35MHz/450kHz (1st/2nd)				
Sensitivity	FM/FM-N (12dB SINAD)	Less than 0.18µV (amateur bands only)				
	DV (1% BER)	Less than 0.28µV				
Receiver sensitivity	FM/FM-N	137-159.995MHz Less than 0.32µV				
(Not guaranteed, for your reference only. Except	(12dB SINAD)	160-174.000MHz Less than 0.56µV				
amateur bands.)		375-399.995MHz Less than 0.56µV				
		400-499.995MHz Less than 0.32µV				
		500-550.000MHz Less than 0.56µV				
	AM (10dB S/N)	118-136.9916MHz Less than 1µV				
Squelch sensitivity		Less than 0.13µV (at thres	hold)			
Selectivity	FM	More than 60dB				
	FM-N	More than 55dB				
	DV	More than 50dB				
Spurious and image rejections		More than 60/55dB (VHF/				
	B band	More than 60/60dB (VHF/UHF)				
Audio output power		More than 2.0W (with 8Ω load, 10% distortion)				
External speaker conne		2-condcutor 3.5 (d) mm (¹				

Supplied accessories (* May differ, depending on version) • Hand microphone, HM-207 DC power cable, OPC-1132 • Controller cable, OPC-837 (3.5 m; 11.4 ft) Microphone hanger Spare fuse

• CD (CS-5100 and instruction handbook PDF)

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Main unit (Front panel)



SD Card Slot

Microphone Connector



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