



ID-4100E

Enjoy Digital Communication More Actively and More Comfortably



Terminal Mode and Access Point Mode

Flexible Installation
Intuitive User Interface



Full dot-matrix LCD Bluetooth® GPS iOS™/Android™ Apps





Compact, User-Friendly VHF/UHF Dual Bander Offers a Variety of Operating Styles

DV GATEWAY FUNCTIONS

Terminal Mode and Access Point Mode Expand Communication Coverage and Fun

Terminal and Access Point modes* enable you to enjoy long-distance D-STAR (Digital Smart Technology for Amateur Radio) communication through the Internet. You can access the D-STAR repeater network through the Internet, regardless of locations and conditions of nearby repeaters.

* 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 divice.

Terminal Mode

By connecting the ID-4100E to the Internet through a Windows® PC or Android[™] device, the Terminal mode enables you to use a D-STAR repeater to make D-STAR gateway calls.



Access Point Mode

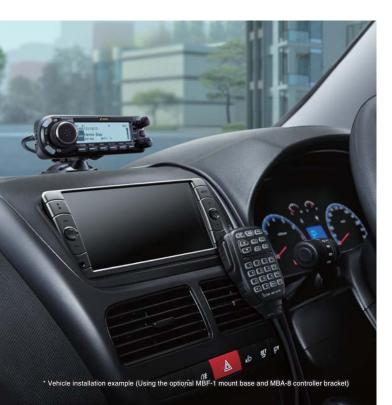
The Access Point mode enables another D-STAR transceiver to make D-STAR gateway calls through the ID-4100E connected to the Internet. 50 watts of output power can be used for a D-STAR access point.



Flexible Installation

Compact, Detachable Controller for Flexible Installation

The controller can be attached or detached from the main unit for flexible installation. By using the supplied OPC-837 controller cable, you can install the controller up to 3.5 meters away from the main unit.



User Friendly

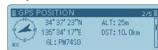
DR Function with the **Latest Icom User Interface**

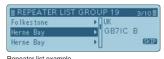
DR (D-STAR Repeater) Function

The DR function makes D-STAR communications simple. By simply selecting a destination call sign in "To", and your access repeater in "From", you can talk with other D-STAR users. In addition, using the reflector function, you can talk through several repeaters at once.

Easy-to-Read Full Dot-Matrix Display

To increase the amount of display information, a full dot-matrix display is used in the ID-4100E. For example, Repeater list or GPS position information are clearly arranged and easy to read.





GPS position information example

DV/FM Near Repeater Search Function

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

* To use the near repeater search function, the position data of the repeater is required. The ID-4100E will be shipped with the D-STAR repeater memories preprogrammed, but the position data of some D-STAR repeaters may not be entered or exact.

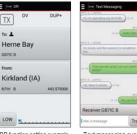
Smart Operation

Advanced Operation with a Smart device and Bluetooth®

Applications for iOS™ and Android™ devices*

The RS-MS1I (for iOS™ devices) and RS-MS1A (for Android™ devices) enable you to wirelessly connect to the ID-4100E and remotely set the DR functions, link with a map application and send/receive messages over the DV mode. In addition, pictures taken by a smart device can be transmitted via the DV Fast Data mode or DV mode.

* The optional UT-137 Bluetooth® unit must be installed in the ID-4100E. Some functions may not work properly, depending on smart devices used









DV Fast Data Mode*

By using the data place in voice frames, the ID-4100E transfers data 3.5 times faster (3480 bps) than in the conventional DV mode (with voice).

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

VHF/UHF DUAL BAND DIGITAL TRANSCEIVER

ID-4100E





Wireless Operation with VS-3 Bluetooth® Headset*

The optional VS-3 Bluetooth® headset provides convenient wireless communication away from the transceiver. The VS-3 remotely controls the ID-4100E with three programmable buttons.

* The optional UT-137 Bluetooth® unit must be installed in the ID-4100E.



Actual size

And More

microSD Card Slot for Voice and Data Storage*

When used with a microSD card, you can store various information including voice memory, TX voice message, QSO log, RX history log and GPS log data. Memory channels and other settings can be saved and loaded into the transceiver.

* A microSD card is required separately.



Integrated GPS Receiver

The integrated GPS receiver shows your own position, course, speed and altitude on the display and can be used for exchanging position reports, D-PRS and searching for nearby repeaters.

Wideband Receiver

The ID-4100E receives 118-174 and 230-550 MHz*. You can listen to air band, marine and other VHF and UHF utility communications.

* Working range not guaranteed.

Selectable LCD and Key Backlight Color

The backlight color of the LCD and keys is selectable from white, green, amber or blue. Using the backlight night time setting function, the display backlight brightness can automatically be changed when the designated time comes.



- The QUICK key allows instant access to menus listing dedicated functions depending on mode
- Multiple scan functions for Memory/Bank scan, Full scan, Band scan, Program scan, Program link scan, Duplex scan Tone scan and DR scan
- 16 channels of DTMF memory (24-digit)
- CTCSS/DTCS signaling with the split tone functions (analog mode)
- 8.33 kHz air band channel reception
- HM-207S remote-control hand microphone (supplied as standard)

ID-4100

SPECIFICATIONS

GENERAL							
Frequency coverage							
	Version		Transm			Receive	
	EUR					4, 230–550 MHz*1	
	ITR		144–146, 43 435–438	MHz	430-43	6.991, 144–146, 4, 435–438 MHz*²	
		nge	* ¹ 144–146, 430–440 MHz, * ² 144–146, 430–434, 435–438 MHz.				
Type of emission			F2D, F3E, F7W				
Mode			DV, FM, FM-N, AM (RX only), AM-N (RX only)				
Operating temperature range		е	−10°C to +60°C				
Frequency stability			±2.5 ppm (-10°C to +60°C based on 25°C)				
Antenna impedance			50 Ω (SO-239)				
Number of memory channels		S	1000 regular channels, 4 call channels, 50 program scan edges, 1500 repeater memories and 300 GPS memory				
Power supply requirement			13.8 V DC ±15%				
Current drain			13.0 A				
(approximate)	Rx		1.2 A/0.9 A (Maximum audio/Stand-by)			o/Stand-by)	
	Main unit + Contro	oller	150 × 40 × 171.9 mm				
Dimensions	Controller			122 × 40 ×	122 × 40 × 29.7 mm		
			$(W \times H \times D, Projections are not included.)$				
Weight	Main unit		1.1 kg				
(approximate) Controller			100 g				
TRANSMITTE	В						
Output power (at 13.8 V DC))	50 W, 15 W, 5 W (Hi, Mid, Low)				
Max. frequency deviation			±5.0 kHz/±2.5 kHz (W/N)				
Spurious emissions			Less than -60 dBc				
Microphone impedance			600 Ω (8 pin modular)				
RECEIVER							
Intermediate frequencies			46.35 MHz/450 kHz (1st/2nd)				
Sensitivity	FM, FM-N		Less than 0.18 µV (amateur bands at 12 d				
	DV		Less than 0.22 µV (at 1% BER)				
Squelch sensitivity			Less than 0.13 μV (threshold)				
Selectivity	FM/FM-N		More than 60 dB/55 dB				
•	DV			More than 50 dB			
Spurious and in		ns	More than 60 dB				
Audio output power			More than 2.0 W (10% distortion, 8 Ω load)				
External speaker connector			2 conductor 3.5 (d) mm ($^{1}\!/_{8}"$)/8 Ω				
			(Except amateur bands.)				
	M-N (12 dB SI						
			ess than 0.32 µV			Less than 0.32 μV	
			ess than 1.8 µV			Less than 0.56 μV	
			ess than 0.56 µV			Less than 0.56 μV	
			ess than 0.32 μV 500–550.000 MHz Less than 0.56 μ\				
	AM-N (10dB S/						
	136.991 MHz	L	ess than 1.0 μV	230–259.9		Less than 5.6 μV	
			ess than 1.8 μV	322-374.99	95 MHz*	Less than 1.8 μV	
* Only AM mode.							

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

Supplied Accessories

- HM-207S Hand microphone
- OPC-837 control cable (3.5 m)
- OPC-345B DC power cable
- Microphone hanger Spare fuse

Note for the Terminal mode and Access point mode:

- An Internet IP connection is necessary for a PC (Windows®) or Android™ device.(Either a dynamic or static IP address can be used.)
- 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 the 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.

OPTIONS

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









SP-35: 2 m cable SP-35L: 6 m cable

SP-30 102.5 mm diameter speaker



MRF-1 Suction cup mounting base. MBA-8 is required.

ular connector MOUNTING BRACKET

3.5 m cable with a mod-

CONTROLLER

OPC-1156

EXTENSION CABLE

MBF-4 For mounting the main

MICROPHONE EXTENSION CABLES **OPC-440:** 5 m **OPC-647:** 2.5 m

DATA COMMUNICATION



USB cable to connect to an Android™ device or a

SOFTWARE FOR Android/PC

- RS-MS1A: Remote control application for Android.™

- RS-MS11: Remote control application for IOS.™
 RS-MS3A: Terminal/AP mode application for Android.™
 RS-MS3W: Terminal/AP mode software for Windows® PC. • CS-4100: Programming software for Windows® PC.
- Applications for Android™ devices can be freely downloaded
- from Google Play.

 Application for iOS™ can be freely download from App Store.
- Software for Windows® PCs can be freely download from the Icom website.

OTHER OPTIONS

- OPC-478UC: USB programming cable for PC.
- OPC-1529R: RS-232 data communication cable for PC.
- OPC-589: Microphone adapter cable for use with an 8 pin microphone.

Software/Application Comparison Chart

Software/App	OS	Function	Required option
RS-MS1A	Android™ 4.0 or later	Remote control operation	UT-137
RS-MS1I	iOS™ 8.0.1 or later	Remote control operation	UT-137
RS-MS3A	Android™ 4.0 or later	Terminal/Access Point mode	OPC-2350LU
RS-MS3W	Windows® 7 or later	Terminal/Access Point mode	OPC-2350LU
CS-4100	Windows® 7 or later	Programming	microSD card/OPC-2350LU/ OPC-1529R/OPC-478UL

Main unit (Front panel)



microSD Card Slot

Controller Connector

Microphone Connector

(Rear panel)



Antenna Connector

External Speaker Jack

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