ICOM

VHF/UHF DUAL BAND TRANSCEIVERS

IC-E80D ID-E880

(Handheld transceiver)

(Mobile transceiver)



For the Outdoors.

VHF/UHF Dual Band
Digital Transceiver, IC-E80D

Digital & Analog

Free download software CS-80/880

Easy to set up

Optional HM-189GPS (For IC-E80D)







Take it into the field— Easy to use!

* PC, mapping software included Optional data cable required.

Optional GPS speaker-microphone

When used with the GPS speakermicrophone, HM-189GPS, the IC-E80D shows your position data on its LCD display and offers automatic position reporting in DV mode.

5 Watts (typical) output power

The IC-E80D provides 5W (tvp.) output power in both VHF/UHF bands. The supplied Lithium-Ion battery, BP-217, provides up to 6 hours*1 of operating time.

External DC power jack

The external DC power jack allows for operation with an external DC power supply (10-16V DC). When used with the DC power cable. operation during charging is possible.

GPS position reporting function with the optional HM-189GPS.

Other features

- 4 step RF power selection (5W, 2.5W, 0.5W, 0.1W)
- IPX4*2 water-resistant construction
- · Auto power save and auto power off
- · 10dB (approx.) built-in attenuator
- *1 Tx high: Rx: Stand-by duty ratio= 1 min.: 1 min.: 8 min. Power save on.
- *2 Only when the supplied battery pack (or optional battery case), antenna and jack cover are attached

VHF/UHF DUAL BAND **TRANSCEIVER**

IC-E80D

Supplied accessories

- (*depending on version)

 Battery pack, BP-217
- Wall charger, BC-167*
 Antenna, FA-S270C
- Belt clip, MB-107
- Hand strap

IC-E80D & ID-E880

Internet --- DV mod

D-STAR Digital Voice capability

The IC-E80D and ID-E880 can transmit and receive D-STAR format digital voice and 950 bps* data communication, simultaneously. Analog FM mode is also available.

* Approximate value.

GPS position reporting functions

Your position data is shown on the display and can be sent* to other station. In addition, the GPS A mode assists in D-PRS mode operation to send your position information to an APRS server.

* 3rd party GPS receiver is required for ID-E880. Optional HM-189GPS is required for IC-E80D.



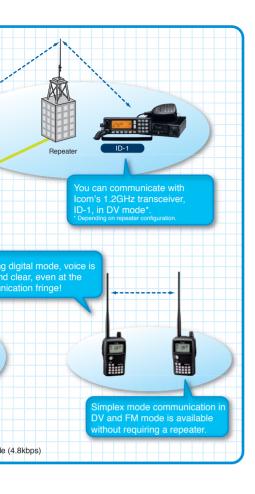
Setting example for showing own position as 135 degrees east longitude (ID-E880)

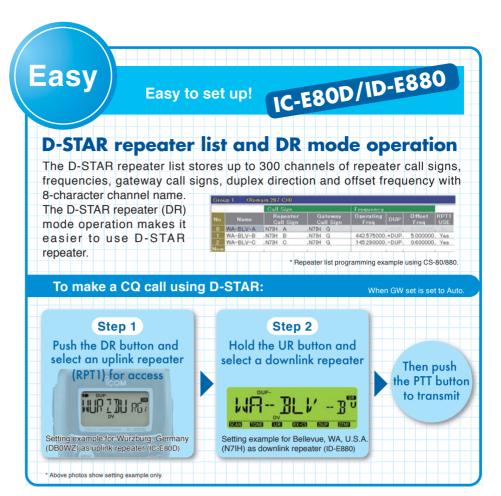
Wideband receiver

The IC-E80D covers 0.495-999.990MHz* and the ID-E880 covers 118-173.995, 230-549.995 and 810-999.990MHz.* You will be able to listen to aviation, marine, weather channels and other utility communications.

* Receiver range depending on versions. See specification page for details.







common features

CS-80/880 free download software

Used with the CS-80/880 cloning software, various settings can be made from a PC. Share your memory channels info and radio settings between IC-E80Ds, ID-E880s or both. Available for free download from:

http://www.icom.co.jp/world/support/index.html

* Either OPC-1529R, OPC-478 or OPC-478UC optional cable is required.

Other features common to both radios

- · Total of 1052 memory channels with 8-character channel name
- · 16 channels DTMF memory (24-digit)
- · LCD and keypad backlighting
- · Monitor function to listen to a weak signal
- · Built-in CTCSS/DTCS tone encoder and decoder (FM mode only)
- · Tone scan and pocket beep function
- · 26 memory banks with selected bank and bank link scanning
- Key lock function
- 1750Hz tone function

Other digital features for both radios

- · One touch reply function
- 50 channels GPS memory and GPS alarm
- · 300 channels D-STAR repeater list
- · D-STAR access repeater scan

D-STAR makes mobile operation much more fun!

Detachable controller

The controller is separated from the main unit for flexible installation. The controller has magnets on the rear panel, it allows the controller to attach to the main unit or other metal objects.

Compact body with large display

While the ID-E880 has a compact body. it has a large LCD display. At 64×20.7 mm, the LCD offers an excellent viewing angle suitable for mobile operation. Green, yellow and amber display backlighting is available. Select the color you like!

HM-133

bracket

Mounting bracket kit

Max. 50 Ch/sec. high speed scan

The ID-E880 has a maximum scanning speed of 50 channels per second while in program scan mode. This scanning power allows the utmost efficiency when searching a wide frequency range.

Other features

- 50W output power both VHF/UHF band
- Built-in noise filter (AM/FM mode)
- · Data and 9600/1200bps packet jacks on the rear panel
- · ±2.5ppm frequency stability
- · Adjustable microphone sensitivity



SPECIFICATIONS

GENERAL	IC-E80D	ID-E880				
Frequency coverage	:					
Europe TX	144-146, 430-440MHz	144-146, 430-440MHz				
BX	0.495–999.990MHz*1	118–173.995, 230–549.995,				
TIX	0.433-333.330WII IZ	810–999.990MHz*1				
Europe-1 TX/RX						
	444 440 400 404 405 4001411-	144-146, 430-440MHz				
Italy TX		144–146, 430–434, 435–438MHz				
RX	0.495–29.995, 50–51, 76–136.995,	118–173.995, 230–549.995,				
	144-146, 430-434, 435-438MHz*2	810-999.990MHz*2				
France TX	144-146, 430-440MHz					
RX	0.495–29.995, 50–52, 76–136.995,					
	144-146, 430-440MHz*1					
	*1 Guaranteed range, 144-146, 430-440N	-146, 430-440MHz.				
	*2 Guaranteed range, 144–146, 430–434, 435–438MHz.					
 Type of emission 	: F2D, F3E, F7W	F2D, F3E, F7W				
 Useable temp. range 	: -20°C to +60°C	-10°C to +60°C				
 Frequency stability 	: ±2.5ppm	±2.5ppm				
	(-20°C to +60°C on the basis of 25°C)	(-10°C to +60°C on the basis of 25°C)				
Digital TX speed	: 4.8kbps	4.8kbps				
Voice coding speed	: 2.4kbps	2.4kbps				
Antenna impedance	: 50Ω (SMA)	50Ω (SO-239)				
Memory channels	: 1052 channels (including 50 program	1052 channels (including 50 program				
	scan edges and 2 call channels)	scan edges and 2 call channels)				
Power supply	: 7.4V DC (with BP-217)	13.8V DC (±15%)				
External DC power	10-16V DC	, , ,				
Current drain	: (at 7.4V DC)	(at 13.8V DC)				
TX High (VHF/UHF)	1.8/2.1A typ.	11.5/12.5A typ.				
RX	Power save/Rated output/Stand-by	Max. audio Less than 1.2A				
	FM 30mA/170mA/62mA typ.	Stand-by Less than 0.9A				
	DV 38mA/215mA/106mA typ.	Ciana by Less man 0.0A				
	(Power save duty= 1:4)					
Dimensions (W×H×D)	: 58.4×103×34.2 mm:	150:40:400.0 mm				
, , ,	. 50.44 105454.2 11111,	150×40×199.2 mm;				
(projections not included) • Weight (approx.)	: 290q	12000				
• weight (approx.)	<u> </u>	1300g				
	(with antenna and BP-217)	(without microphone, cable and bracket)				
TRANSMITTER	IC-E80D	ID-E880				
IKANSMITTEK	IC LOOP	10 1000				
Output power	put power : High/Mid/Low/S-low High/Mid/Low					
Caspat power	5W/2.5W/0.5W/0.1W typ.	50W/15W/5W (approx.)				
Spurious emissions	: Less than -60dBc (High, Mid)	Less than –60dB				
Max. freq. deviation	: ±5.0/2.5kHz (FM wide/narrow)	±5.0/2.5kHz (FM wide/narrow)				
Ext. MIC impedance	: ±5.0/2.5KHZ (FM wide/narrow) : 2kΩ	±5.0/2.5KHZ (FM wide/narrow) 600Ω (8-pin modular)				
Ext. IVIIC impedance	. ∠٨১૮	. OUUSZ (8-pin modulař)				

All stated specifications are subject to change without notice or obligation	AII	stated	specificati	ons are s	subject to	change	without not	tice or ol	oligation.
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Intermediate Except WFM (1st/2nd) 46.35MHz/450kHz (1st/2nd) 61.65MHz/450kHz frequencies WFM (1st/2nd/3rd) 59.25MHz/13.35MHz/1.95MHz Sensitivity (typical) FM (at 12dB SINAD, 3.5kHz DEV) FM (at 12dB SINAD) 1.625–29.995MHz 30.000–75.995MHz 0.4μV 0.25μV 118.000-136.995MHz 137.000-173.995MHz 0.16µV 0.16µV 76.000-117.995MHz 0.25µV 230 000-259 995MHz 0.56µV 118.000–173.995MHz 0.14µV 260.000-299.995MHz 0.32uV 174.000–259.995MHz 0.32μV 0.22μV 0.22μV 300.000-349.995MHz 0.32µV 260.000–349.995MHz 350.000-399.995MHz 350.000-469.995MHz 0.16µV 400 000-499 995MHz 0.16µV 470.000–599.995MHz 0.32μV 500.000-549.995MHz 0.16µV 600.000-999.995MHz 0.56µV 810 000-879 990MHz 0.45µV 880.000-999.990MHz WFM (at 12dB SINAD, 52.5kHz DEV) 0.45uV 76.000–108.000MHz 1µV AM (at 10dB S/N, 30% Mod.) 118.000–136.995MHz 76.000–106.000NiΠ2 1μV 175.000–221.995MHz 1.8μV 470.000–770.000MHz 2.5μV 0.5uV 137 000-173 995MHz 0.5uV AM (at 10dB S/N, 30% Mod.) 230.000-259.995MHz 1.8µV 260.000-299.995MHz 300.000-349.995MHz 0 495-4 995MHz 1.3uV 1.0µV 5.000-29.995MHz 0.56µV 0.79uV 118.000-137.000MHz 0.5μV 350.000-399.995MHz 0.63µV 222.000–246.995MHz 0.79µV 400.000-499.995MHz 0.56uV 247.000-329.995MHz 1µV 500.000-549.995MHz 0.56uV DV (at BER 1%, 4.8kbps) DV (at BER 1%, 4.8kbps) VHF (Ham band) 0.22μV UHF (Ham band) 0.22μV AM/FM Wide More than 50dB VHF (Ham band) Less than 0.35µV UHF (Ham band) Less than 0.35µV Selectivity FM Wide More than 10kHz/6dB Less than 30kHz/60dB FM-N, DV More than 45dB WFM More than 300kHz/–3dB FM-N More than 6kHz/6dB Less than 20kHz/60dB Less than 700kHz/-20dB More than 50dB More than 60dB Spurious and image VHF (Ham band) More than 60dB rejection UHF (Ham band) More than 50dB (IF points; More than 60dB) Less than -57dBm More than 300mW (at 7.4V DC) Less than -57dBm Spurious radiation Audio output power More than 2.0W (at 13.8V DC) • Ext. speaker impedance : 8Ω

OPTIONS

OPTIONS FOR IC-E80D

■ BATTERY PACK AND CASE

BP-216: AA (LR6) × 2 battery case BP-217*1: Li-lon battery pack 7.4V/1500mAh (min.), 1580mAh (typ.)

■ BATTERY CHARGERS

BC-167*1: Wall charger (12V/500mA output) Charges the BP-217 in 6 hours (approx.) BC-167SD for 230V AC

BC-139: Rapid desktop charger. Charges the BP-217 in 2.5 hours (approx.).

■ CIGARETTE LIGHTER CABLES 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. For use of the transceiver with an external

power supply. (12V DC required)

■ SPEAKER-MICROPHONES. HEADSET AND EARPHONE

HM-189GPS*2: GPS speaker microphone HM-75A: Remote control speaker microphone HM-131: Compact type speaker microphone **HM-153**: Durable type earphone microphone. HM-166: Light type earphone microphone. HS-85 : Headset. Allows you hands-free operation. Includes VOX, PTT, "one-touch PTT" (TOT) SP-13: Earphone

SP-27: Tube earphone **■ OTHER OPTIONS**

MB-107*1 : Alligator type belt clip. MB-86 : Swivel type belt clip. LC-163 : Carrying case FA-S270C*1: VHF/UHF antenna AD-92SMA: Antenna connector adaptor.

Allows you to connect a BNC-type antenna

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OPTIONS FOR ID-E880

RECEIVER IC-E80D

■ HAND MICROPHONES

HM-103: Lightweight hand microphone. HM-154: Hand microphone with up/down buttons. HM-133*1: Remote control microphone.

■ DC POWER SUPPLY CABLES

OPC-1132A*1: 3m DC power supply cable. OPC-347: 7m DC power supply cable

■ MOUNTING BASE

MB-120 : Mounting base

■ EXTERNAL SPEAKER

SP-10: Mid sized external speaker

Connection for 8-pin microphone.

■ EXTENSION CABLES

OPC-440: 5m microphone extension cable. OPC-647: 2.5m microphone extension cable. OPC-441 : 5m speaker extension cable. OPC-589: Microphone adapter cable.

OPTIONS FOR BOTH MODELS

ID-E880

■ CLONING SOFTWARE

CS-80/880 : Free download cloning software for IC-E80D and ID-E880. Please download from the following URL http://www.icom.co.jp/world/support/index.html
One of either OPC-1529R, OPC-478 or OPC-478UC is required.

■ CLONING & DATA CABLES

OPC-1529R: Data communication cable for PC or GPS receiver connection. (RS-232C type) OPC-478: PC cloning cable (RS-232C type) **OPC-478UC**: PC cloning cable (USB type) **OPC-474**: Transceiver to transceiver cloning cable. (Between same models only)

*1 Same as supplied. *2 Please note: HM-189GPS is compatible only with the IC-E80D at this time

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