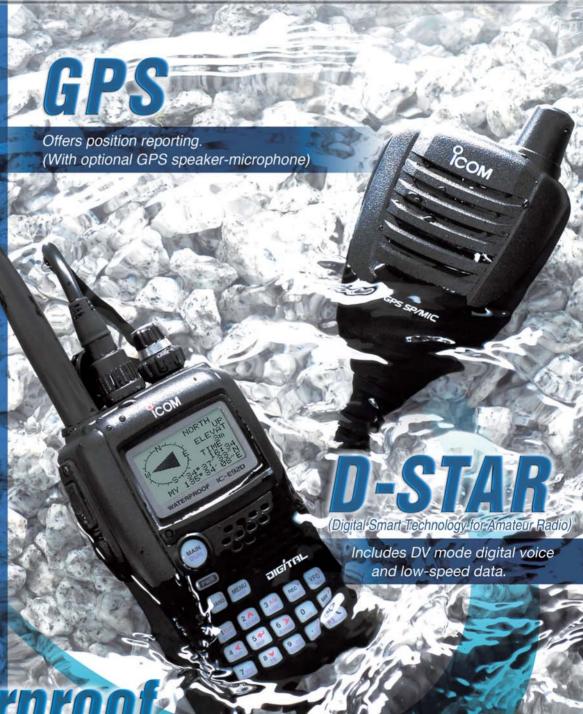


ICOM

IC-E92D

D-STAR:

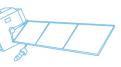
Expanding the Technical Frontier!



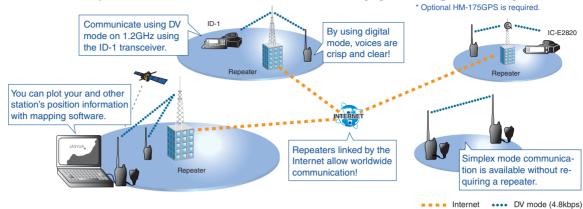
Waterproof

Equivalent to IPX7 protection. (1 meter depth for 30 minutes)





With the IC-E92D, exchanging position information is easy! D-STAR repeaters use the Internet to carry your signals anywhere!



struction!

Feature-rich Functions

Wideband receiver with dualwatch capability

The IC-E92D has dualwatch receiver capability, allowing you to receive* on two bands simultaneously (including the same band). By pushing and holding the [Main/Dual] button, you can easily turn dualwatch on and off, while a single press toggles the active VFO channels (A band/B band). * See specifications for receive range coverage.

5 Watts (typical) output

Icom's original wideband PA circuit and supplied lithium-ion battery pack provides 5W (typ.) output power on both VHF and UHF bands. The supplied BP-256 provides up to 6/5.5 hours* of operating time. When you don't need full power operation, you can reduce output power to 2.5/0.5/0.1W (typ.) to reduce battery consumption.

	Output	High	Mid	Low	S-Low
	power	(5W typ.)	(2.5W typ.)	(0.5W typ.)	(0.1W typ.)
ſ	VHF	6 hrs.	8.5 hrs.	14.5 hrs.	19 hrs.
	UHF	5.5 hrs.	7.5 hrs.	14.5 hrs.	19 hrs.

* VHF/UHF single mode, Tx high: Rx: Stand-by duty ratio= 1: 1: 8

Simple bandscope

Spectrum activity is displayed on the screen and audio is heard while sweeping. The bandscope



Simple bandscope example

is useful for finding new or interfering signals.

Built-in voice recorder function

The built-in voice recorder* records an incoming call for up to 30-seconds (approx.), (or 15 sec. \times 2 tracks, 10 sec. \times 3 tracks). For automated outgoing calls, you can pre-record up to 10 seconds of your callsign and/or CQ message in the IC-E92D's voice memory

(* Available in DV mode only)

Convenient Operation

Large dot-matrix Display

Using a large full dot-matrix display (37.8×20 mm; 1½×25/½ in), the IC-E92D clearly shows two-line frequency settings, alphanumeric channel name, bandscope, received message and position information, etc. You can change the display setting to

show frequency or memory name in the center of the display. In addition, automatic LCD and keypad backlighting provides bright illumination for night time operation.



Memory name large setting

One touch reply button

The one-touch reply [CALL RX->CS] button memorizes the received callsign(s) with a signle touch. This function allows you to respond to the calling station without hassle. In addition, up to 20 received callsigns are stored in a received call history.

Keypad navigation

The four cursor direction buttons on the keypad give you quick and intuitive access to many settings. The dual volume/channel knob provides convenient channel selection and volume control.

Optional PC remote control capability

When connected to a PC via RS-232C, most functions of the IC-E92D can be controlled from the PC with the optional RS-92 software. In DV mode operation, you can send and receive short mes-



sages of 20 characters (max.) on the PC.

Other features

• Total of 1304 memory channels • External DC power jack (10–16V DC acceptable) • 10 channel DTMF memory (16-digit) • Squelch disable function to monitor a weak signal • Built-in CTCSS/DTCS tone encoder and decoder (FM mode) • Auto power save, power off and power on • 26 memory banks with selected bank and bank link scanning • 10dB (approx) built-in attenuator • 1750Hz tone for repeater access

SPECIFICATIONS

	• Frequency coverage and mode: (Unit: MHz)						
ı	Version	Transmit	Receive (Working range)	Mode			
	Europe	144-146,		FM/WFM*1/AM*1			
		430-440		FM/FM-N/AM*1/DV			

*1 Receive only.

 Memory channels : 1304 channels (including 100 program scan edges and 4 call channels) Operating temp, range: -20°C to +40°C

GENERAL

Ambient temp. range: -20°C to +60°C Frequency stability : ±2.5ppm (-20°C to +60°C) 4.8kbps Digital Tx speed

• Voice coding speed : 2.4kbps 7.4V DC (with BP-256) Power supply External DC power 10-16V DC

Current drain (at 7.4V DC): High (VHF/UHF) 1.8/2.1A typ.

Power save(Duty= 1:4)/Rated output/Stand-by 38mA/150mA/65mA typ. FM (Single) FM/FM (Dual) 43mA/180mA/90mA typ. 50mA/220mA/130mA typ FM/DV (Dual)

DV (Single) 47mA/200mA/110mA typ. : 5*, 6.25*, 8.33*, 9*, 10, 12.5, 15, 20, 25, 30, 50, 100, 125, 200 • Tuning steps (kHz)

* Not available on all bands or modes Antenna impedance

• Dimensions (W×H×D) : 59×112×34.2 mm (projections not included)

. 325g (with antenna and BP-256) • Weight (approx.)

TRANSMITTER

2.5W typ. Output power : High 5W typ. Mid S-low 0.1W typ Low 0.5W typ : Less than -60dBc (High, Mid) Spurious emissions

• Max. freq. deviation : $\pm 5.0/2.5 \text{kHz}$ (FM wide/narrow) • Ext. MIC impedance : $2 \text{k}\Omega$

RECEIVER

Intermediate frequency

61.65MHz/450kHz (Except WFM) A band (1st/2nd) WFM (1st/2nd/3rd) 59.25MHz/13.35MHz/1.95MHz B band (1st/2nd) 46.35MHz/450kHz

Sensitivity (typical, except spurious points):
 FM (at 12dB SINAD, 3.5kHz DEV)

1.625— 29.995MHz 0.4μV 30.000— 75.995MHz 0.25μV 76.000—117.995MHz 0.25μV 118.000—173.995MHz 0.18μV 174.000-259.995MHz 0.32uV 260.000-349.995MHz 0.32uV

350.000–469.995MHz 0.22µV 470.000–599.995MHz 0.32µV 600 000-999 995MHz 0 56uV WFM (at 12dB SINAD, 52.5kHz DEV)

76.000–108.000MHz 1μV 470.000–770.000MHz 2.5μV 175.000–221.995MHz 1.8uV

AM (at 10dB S/N, 30% Mod.) 0.495- 4.995MHz 1.3uV 5.000- 29.995MHz 0.56µV 118.000–137.000MHz 0.5μV

DV (at BER 1%, 4.8kbps) VHF (Ham band) 0.22uV UHF (Ham band)

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

Selectivity

AM/FM Wide FM-Narrow, DV

More than 50dB More than 45dB More than 300kHz/–3dB Less than 700kHz/-20dB

 Spurious and image rejection : More than 60dB

VHF (Ham band) UHF (Ham band) More than 50dB (IF more than 60dB) Spurious radiation Less than -57dBm

More than 200mW at 10% distortion Audio output power (7.4V DC) with an 8Ω load

 External speaker impedance

Supplied accessories (*depending on version)

Battery pack (BP-256)
 Antenna (FA-S270C)
 Wall charger* (BC-167SD)
 Belt clip (MB-111)

Hand strap

OPTIONS

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



BP-256 7.4V/1700mAh AA (LR6)×2 cells

BP-256 Li-Ion BATTERY PACK

SPEAKER-MICROPHONES

Provides 6/5.5 hours* operating time (approx.). (* Typical operation at VHF/UHF FM single mode with Tx (Hi): Rx: standby=1:1:8) **BP-257** BATTERY CASE

Output power: 0.1W typ. BP-257 is not waterproof.



Rapidly charges battery pack BP-256. Charging time (approx.): 2.5 hours. AC adapter is supplied with the BC-177.



Charges the BP-256 in 6 hours (approx.). Same as supplied with some versions



CP-19R: Cigarette lighter cable with DC-DC converter. 10–16V DC required.

OPC-254L : For use with an external power supply. 10-14V DC required for high power output.

CP-12L : Cigarette lighter cable is also available.

AD-92SMA ANTENNA CONNECTOR **ADAPTER**

Allows you to connect a BNC-type an-

tenna. **HS-85** HEADSET

Allows you hands-free operation. Includes VOX, PTT, "one-touch PTT" with time out timer (TOT). OPC-1797 is required.

MB-111 BELT CLIP

Same as supplied.

OPC-474 CLONING CABLE Used for handheld-to-handheld data cloning. Two OPC-1797s are required.

SP-13 EARPHONE

Provides clear audio in noisy environments. OPC-1797 is required

Count on us!



lent to IPX7.

HM-175GPS: Waterproof speaker microphone with GPS receiver. Equivalent to IPX7.
HM-75A, HM-131, HM-153 and HM-166 speaker microphones are also available with the OPC-1797 plug adapter cable.



REMOTE CONTROL SOFTWARE

AND CONNECTION CABLE

from a PC, OPC-1799 is included. OPC-1799: RS-232C type PC connection cable.



OPC-1797 PLUG

For use of the HM-75A HM-131, HM-153, HM-166, HS-85, OPC-474 and



LC-168 CARRYING CASE

from scratches, etc.

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