


ICOM

VHF/UHF DUAL BAND TRANSCEIVER

IC-E92D

D-STAR: Expanding the Technical Frontier!

GPS

Offers position reporting.
(With optional GPS speaker-microphone)

D-STAR

Includes DV mode digital voice
and low-speed data.

Waterproof

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

Photo includes optional GPS speaker-microphone, HM-175GPS.

D-STAR

**Take It Outdoors!
Tough, Waterproof Con**

Rugged Waterproof Protection

The IC-E92D and HM-175GPS have superior waterproof protection equivalent to IPX7 (1m depth underwater for 30 minutes). The aluminum diecast chassis and gasket-sealed housing provide performance you can count on in harsh outdoor environments; when hiking, mountain biking, touring and for alpine activities.



VHF/UHF DUAL BAND
TRANSCEIVER

IC-E92D

Optional GPS Speaker-microphone

Used with the GPS speaker-microphone, HM-175GPS, the IC-E92D shows your position data on the display and offers automatic position reporting in DV mode. The IC-E92D shows the direction to a received D-STAR station or to a stored position with a compass-like display pointer. In addition, the GPS-A mode assists in easy D-PRS system operation.

GPS application examples

Touring with GPS

Even if you separate from your group, the radio shows the distance and direction to help you to re-join them.



Hiking with GPS

When you find a nice viewpoint, you can send the location to your friends.

Meeting with GPS

Exchanging position information with someone else helps you get together.



Examples of GPS functions

```
GPS POSITION
▶MY POSITION
34° 37' 33" N
135° 34' 07" E
◀:BACK ▶:RX POS
```

My (own) position information

```
GPS POSITION
▶RX POSITION
43° 03' 29" N
141° 22' 51" E
▲:MY POS ▼:ELEVAT
```

RX (received station) position information

```

NORTH UP
W E
S 34° 37' 33" N
MY 135° 34' 07" E
TIME 16:34
```

Compass information

```

DIR of RXSTN
W E
S 43° 03' 29" N
RX 141° 22' 51" E
DISTAN 1062km
```

Direction and distance to RX station



SPECIFICATIONS

GENERAL

• Frequency coverage and mode: (Unit: MHz)

Version	Transmit	Receive (Working range)	Mode
Europe	144-146, 430-440	A band: 0.495-999.990 B band: 118-174, 350-470	FM/WFM*/AM* FM/FM-N/AM*/DV

* Receive only.

- Memory channels : 1304 channels (including 100 program scan edges and 4 call channels)
- Useable temp. range: -20°C to +60°C
- Frequency stability : ±2.5ppm (-20°C to +60°C)
- Digital Tx speed : 4.8kbps
- Voice coding speed : 2.4kbps
- Power supply : 7.4V DC (with BP-256)
External DC power 10-16V DC
- Current drain (at 7.4V DC):
Tx High (VHF/UHF) 1.8/2.1A typ.
Rx Power save(Duty=1:4)/Rated output/Stand-by
FM (Single) 38mA/150mA/65mA typ.
FM/FM (Dual) 43mA/180mA/90mA typ.
FM/DV (Dual) 50mA/220mA/130mA typ.
DV (Single) 47mA/200mA/110mA typ.
- Tuning steps (kHz) : 5*, 6.25*, 8.33*, 9*, 10, 12.5, 15, 20, 25, 30, 50, 100, 125, 200
* Not available on all bands or modes.
- Antenna impedance : 50Ω (SMA)
- Dimensions (W×H×D) : 59×112×34.2 mm (projections not included)
- Weight (approx.) : 325g (with antenna and BP-256)

TRANSMITTER

- Output power : High 5W typ. Mid 2.5W typ.
Low 0.5W typ. S-low 0.1W typ.
- Spurious emissions : Less than -60dBc (High, Mid)
- Max. freq. deviation : ±5.0/2.5kHz (FM wide/narrow)
- Ext. MIC impedance : 2kΩ

RECEIVER

- Intermediate frequency :
A band (1st/2nd) 61.65MHz/450kHz (Except WFM)
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 0.32µV 260.000-349.995MHz 0.32µV
350.000-469.995MHz 0.22µV 470.000-599.995MHz 0.32µV
600.000-999.995MHz 0.56µV
WFM (at 12dB SINAD, 52.5kHz DEV)
76.000-108.000MHz 1µV 175.000-221.995MHz 1.8µV
470.000-770.000MHz 2.5µV
AM (at 10dB S/N, 30% Mod.) 0.495- 4.995MHz 1.3µV
5.000- 29.995MHz 0.56µV 118.000-137.000MHz 0.5µV
222.000-246.995MHz 0.79µV 247.000-329.995MHz 1µV
DV (at BER 1%, 4.8kbps)
VHF (Ham band) 0.22µV UHF (Ham band) 0.22µV

- Selectivity :
AM/FM Wide More than 50dB
FM-Narrow, DV More than 45dB
WFM More than 300kHz/-3dB
Less than 700kHz/-20dB
- Spurious and image rejection :
VHF (Ham band) More than 60dB
UHF (Ham band) More than 50dB (IF more than 60dB)
- Spurious radiation : Less than -57dBm
- Audio output power : More than 200mW at 10% distortion (7.4V DC) with an 8Ω load
- External speaker impedance : 8Ω

Supplied accessories (*depending on version)

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

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

OPTIONS

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

BATTERY PACK AND CASE



BP-256 7.4V/ 1620mAh (min.), 1700mAh (typ.)

BP-257 AA (LR6)×2 cells

BP-256 Li-Ion BATTERY PACK
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.

BC-177 DESKTOP CHARGER



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

BC-167SD WALL CHARGER



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

POWER SUPPLY CABLES



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.

SPEAKER-MICROPHONES



HM-174

HM-175GPS

HM-174 : Waterproof speaker microphone. Equivalent 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



RS-92

OPC-1799

RS-92 : Provides remote control capability from a PC. OPC-1799 is included.
OPC-1799 : RS-232C type PC connection cable.

OPC-1797 PLUG ADAPTER CABLE



MIC/SP plug adapter. For use of the HM-75A, HM-131, HM-153, HM-166, HS-85, OPC-474 and SP-13.

LC-168 CARRYING CASE



Helps protect the transceiver from scratches, etc.

AD-92SMA ANTENNA CONNECTOR ADAPTER

Allows you to connect a BNC-type antenna.

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.

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Icom Inc.

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

www.icom.co.jp/world

Count on us!

Icom America Inc.

2380 116th 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 New Zealand

146A Harris Road, 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>

Icom (UK) Ltd.

Blacksale 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>

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>

Your local distributor/dealer:

Icom Canada

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

Icom (Europe) GmbH

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

Icom France s.a.s.

Zac de la Plaine, 1 Rue Brindejonn des Moulains, 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>

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>

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 Spain S.L.

Ctra. Rubi, No. 88 "Edificio Can Castanyer" Bajos A 08174, Sant Cugat del Valles, Barcelona, Spain
Phone : +34 (93) 590 26 70
Fax : +34 (93) 589 04 46
E-mail : icom@icomspain.com
URL : <http://www.icomspain.com>

Icom Polska

81-850 Sopot, ul. 3 Maja 54, Poland
Phone : +48 (59) 550 7135
Fax : +48 (59) 551 0484
E-mail : icompolska@icompolska.com.pl
URL : <http://www.icompolska.com.pl>