VHF/UHF DUAL BAND TRANSCEIVER

IC-92AD

**D-STAR: Take It To the Field!**

**GPS**

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

**D-STAR**

Includes DV mode digital voice and low-speed data.

**Submersible**

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

Photo includes optional GPS speaker-microphone, HM-176GPS
Rugged Submersible Protection

The IC-92AD and HM-175GPS have superior waterproof protection and is equivalent to IPX7 (1m depth of 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.

Optional GPS Speaker-microphone

Used with the GPS speaker-microphone, HM-175GPS, the IC-92AD shows your position data on the display and offers automatic position reporting in DV mode. The IC-92AD shows the direction to a received D-STAR station or to a memory stored with a compass-like display pointer. In addition, the GPS-A mode assists in easy D-PRS system operation.

Examples of GPS functions

- My (own) position information
- RX (received station) position information
- Compass information
- Direction and distance to RX station

GPS application examples

- **Touring with GPS**
  - Even if you separate from your group, the radio shows the distance and direction to help you to rejoin 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.

Take It To the Field! Tough, Submersible Color
Feature-rich Functions

Wideband receiver with dualwatch capability
The IC-92AD 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.

Simple bandscope
Spectrum activity is displayed on the screen and audio is heard while sweeping. The bandscope 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. x 2 tracks, 10 sec. x 3 tracks). For automated outgoing calls, you can pre-record up to 10 seconds of your callsign and/or CQ message in the IC-92AD’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; 1⅛×⅜ in), the IC-92AD 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.

One touch reply button
The one-touch reply [CALL RX→CS] button memorizes the received callsign(s) with a single 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-92AD can be controlled from the PC with the optional RS-92 software. In DV mode operation, you can send and receive short messages 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
- Automatic repeater function*
- Weather channel with weather alert* (* USA and Canada versions only)
Specifications

General

- Frequency coverage and Mode: (Unit: MHz)
  - Version: U.S.A. 440–450 MHz, 146–148 MHz, 144–146 MHz, 136–138 MHz, 137–135 MHz, 137–133 MHz
  - Transmit: 400–470 MHz, 146–148 MHz, 144–146 MHz, 136–138 MHz, 137–135 MHz, 137–133 MHz
  - Receive: 400–470 MHz, 146–148 MHz, 144–146 MHz, 136–138 MHz, 137–135 MHz, 137–133 MHz

Transmitter

- Output power: High 5W typ. Mid 2.5W typ. Low 0.5W typ.
- Spurious emissions: Less than –60dBc (High, Mid)
- FM: Waterproof speaker microphone. Equivalent to IPX7.
- FM/WFM*: Less than –57dBm
- Audio output power (7.4V DC): More than 200mW at 10% distortion
- Spurious and image rejection: More than 60dB (FM); More than 60dB
- Spurious radiation: Less than –57dBm

Receiver

- Ext. MIC impedance: 2kΩ
- Voice coding speed: 2.4kbps
- Tx High
- Rx Power save
- FM: More than 1000 hours
- FM/WFM*: More than 1200 hours

Options

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

Battery Pack and Case

- HM-175GPS: Waterproof speaker microphone with GPS receiver. Equivalent to IPX7.
- Output power: 0.1W typ. BP-257 is not waterproof.

Remote Control Software and Connection Cable

- OPC-1799: Plug adapter cable. Provides remote control capability with the BC-177.
- OPC-1797/P: 2nd plug adapter cable. Allows you to connect a BNC-type antenna.

Pc-19r: Cigarette lighter cable with DC-DC converter. 10–16V DC required.

Power Supply Cables

- 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-925MA: Antenna Connector Adapter
- Allows you to connect a BNC-type antenna.

HS-85 Headset
- Allows 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 hand-held-to-handheld data cloning. Two OPC-1797’s are required.

Sp-13 Earphone
- Provides clear audio in noisy environments. OPC-1797 is required.

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