

ICOM

VHF AIR BAND TRANSCEIVER

IC-A22
IC-A22E



Super Compact NAV and COM portable.

This extra compact aviation transceiver features excellent audio quality on the COM side and a VOR receiver with CDI function on the NAV side. Check and compare the dimensions of the IC-A22/E with other so-called "portable" transceivers.

Navigation features

- Displays the radial heading TO or FROM the VOR station
- CDI (Course Deviation Indicator) shows deviation from original set course at a glance
- All 200 navigation channels
- ABSS (Automatic Bearing Set System) identifies the direct radial to the VOR
- Semi-duplex function allows you to contact flight services, etc. while receiving VOR signals (U.S.A. version only)

Compact size with superior audio

Compared to previous portable air band transceivers, the IC-A22/E truly is portable. However, the audio is not compromised—superior audio output that's easy to hear even without a headset.

Ergonomic keypad design provides convenient access to all functions and a rotary control allows quick and easy tuning of all frequency and memory channels.

Alphanumeric display

The IC-A22/E's function display features alphanumeric characters which allow you to store VOR ID's, airport ID's, etc. into memory for easy recall and quick visual recognition.

Built-in sidetone function

The sidetone function allows you to monitor your transmitted audio while using a headset. An aircraft headset adapter is supplied* with the IC-A22/E for this purpose as standard equipment.

*Not supplied with some versions.

And more...

- 50 memories with alphanumeric message capabilities
- One-touch selection of the 121.5 MHz emergency frequency
- Versatile scanning capabilities including a lockout function
- Receives all VHF FM marine weather channels (U.S.A. version only)
- DC connector allows operation with a 12 to 15 V DC power source
- Powerful 5 W of output power (5 W P.E.P. typ., 1.5 W carrier typ.)
- FET power module provides stable operation at high duty cycles
- Rugged die-cast aluminum chassis and polycarbonate casing for extraordinarily rugged use
- ANL (automatic noise limiter) function to reduce pulse-type noise
- Low battery indicator and over voltage caution indicator
- Accessories packed with the transceiver: Ni-Cd battery*, wall charger*, headset adapter*, belt clip, flexible antenna and carrying case*.

*Not supplied with some versions.

icom Inc.

SPECIFICATIONS

GENERAL

- Frequency coverage (MHz):

Transmit	Communications	118.00–136.975
	Navigation	108.00–117.975
Receive	Communications	118.00–136.975
	Weather*	ch 01–ch 10

- Mode:

Tx/Rx	AM (6K00A3E)
Rx	FM (16K0G3E)*

- Channel spacing:

25 kHz

- Current drain (at 12 V DC):

Tx	1.0 A (typical)
Rx rated audio	400 mA (max.)
squelched	55 mA (typical)

- Usable temperature range:

–10°C to +50°C (+14°F to +122°F)

- Frequency stability:

±20 ppm (–10°C to +50°C)

- Intermediate frequencies:

1st 35.8 MHz 2nd 455 kHz

- Weight:

485 g (16.4 oz) w/CM-166 and antenna

TRANSMITTER

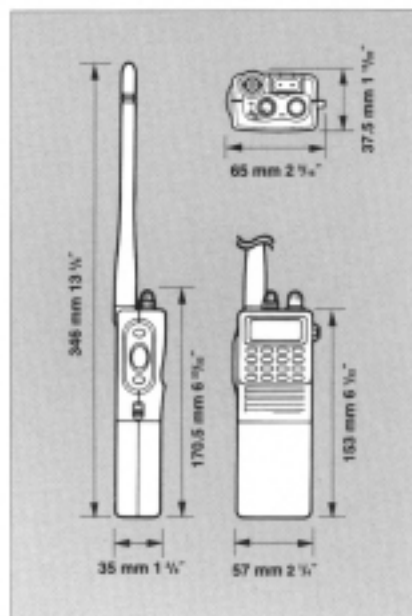
- Output power:
5.0 W (PEP) 1.5 W (Carrier)
- Modulation system:
Low level modulation
- Spurious emissions:
Less than –60 dB

RECEIVER

- Sensitivity (for 6 dB S/N):
Less than 1.0 µV
- Squelch sensitivity (tight):
Less than 4.0 µV
- Selectivity:
More than 8 kHz/–6 dB
Less than 25 kHz/–60 dB
- Noise and hum:
More than 25 dB
- Spurious response rejection ratio:
More than 60 dB
- Audio output power:
600 mW with an 8 Ω load

*U.S.A. version only.

All specifications are subject to change without notice or obligation.



OPTIONS

■ BATTERY PACK AND BATTERY CASE

- **CM-166** Ni-Cd BATTERY PACK
12 V, 600 mAh rechargeable battery pack provides 5 hours of operation (at a duty cycle of 5:5:90/Tx/Rx/standby). The same as supplied with the transceiver (not supplied with some versions).
- **CM-167** BATTERY CASE for R6(AA) size X 10 alkaline batteries.

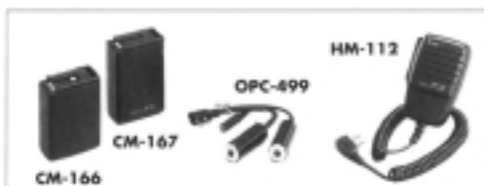
■ CHARGERS AND CABLES

- **BC-119** DESKTOP CHARGER
+ **AD-50** DESKTOP CHARGER ADAPTER + **AD-75** CONNECTION BOARD
For rapid charging a battery pack. An AC adapter and the AD-75 may be supplied with the charger. Charging time: 1 to 1.5 hrs.
- **BC-121** MULTI-CHARGER
+ **AD-50** DESKTOP CHARGER ADAPTER + **AD-75** CONNECTION BOARD
For charging up to 6 batteries simultaneously. An AC adapter may be supplied depending on version. Six AD-50's are necessary. Charging time: 1 to 1.5 hrs.
- **BM-112U/E** WALL CHARGER
Regularly charges the CM-166 in approx. 15 hrs. Similar to the one supplied with the transceiver.

- **CP-17L** CIGARETTE LIGHTER CABLE
For operation with a 12 V cigarette lighter socket.
- **OPC-515L** DC POWER CABLE
For operation and charging with a 12–15 V DC power supply.

■ OTHERS

- **HM-112** SPEAKER-MICROPHONE
Provides convenient lightweight operation while setting the transceiver in the cockpit or hanging it from your belt, etc.
- **LC-122** CARRYING CASE
Fits the transceiver with the supplied CM-166.
- **MB-24/MB-25** MOUNTING BRACKETS
Hang the transceiver via belt clip to:
MB-24: the inside door panel of a vehicle.
MB-25: a flat surface inside an aircraft.
- **OPC-499** HEADSET ADAPTER CABLE
Allows you work with most aviation headsets. Provides the side tone function. Some versions already contain this as an accessory.



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