

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.

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## 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

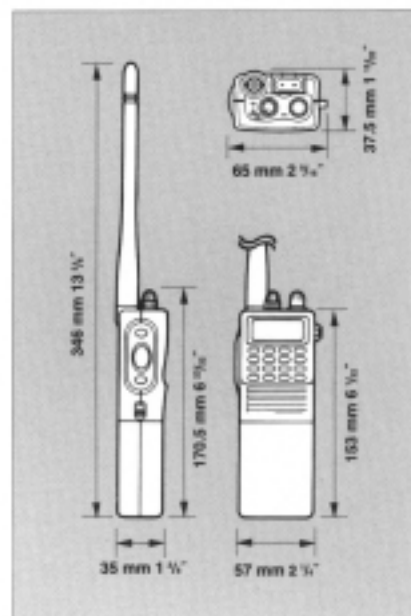
- Output power:  
5.0 W (PEP) 1.5 W (Carrier)
- Modulation system:  
Low level modulation
- Spurious emissions:  
Less than -60 dB

## 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

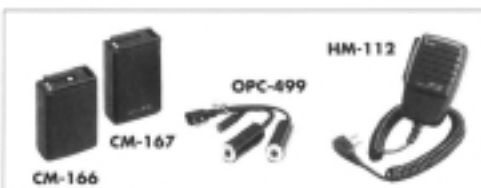
Hang the transceiver via belt clip to:

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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