



## VHF AIR BAND TRANSCEIVERS

### IC-A24

(NAV & COM channels for U.S.A.)

### IC-A24E

(NAV & COM channels for Europe)

### IC-A6

(COM channels for U.S.A.)

### IC-A6E



(COM channels for Europe)

## The pilot's favorite handheld is here!

### Easy to use while flying

Simple one-handed operation is the most essential feature of the IC-A24/A6 series. The well labeled, large keypad provides user friendly operation. The large display shows both letters and numbers and is easy to see, making for fast frequency recognition. The display is backlit, and so is the keypad. The light stays on until you turn it off – a very handy feature for flying at night.

### “Flip-flop” channel recall

The IC-A24/A6 series stores the last 10 channels used. You can easily recall those channels by pushing the “flip-flop” recall   buttons on the front panel. It is convenient for switching between several channels, such as NAV and COM channels.

### VOR navigation\*

The IC-A24/E has VOR navigation functions. The DVOR mode shows the radial to or from a VOR station and the CDI mode shows the course deviation to/from a VOR station. You can also input your intended radial to/from the VOR station and show the course deviation on the display. In the USA version, the duplex operation allows you to call a COM channel, while you are using VOR navigation. (\* IC-A24/E only)



CDI mode display

### External DC power jack

An external DC power jack allows for operation with the wall charger, BC-110 or the cigarette lighter cable, CP-20. When the battery pack is installed, simultaneous charging during operation is also possible. In addition, an optional battery case, BP-208N, is available.

### Water resistant construction

The water resistant construction provides reliable operation in wet conditions.

\* Equivalent to IPX4 of the corresponding international standard IEC 60529 (2001).

### And more...

- 200 memory channels (20 Ch x 10 banks) with 6 character names
- Dedicated 121.5MHz emergency key
- Side tone function allows you to hear your own voice via an external aviation headset.
- Optional Ni-Cd and Li-Ion battery packs
- NOAA weather channels (IC-A24/A6 only)
- Tag scanning and memory bank scanning
- ANL (Auto Noise Limiter) for noise reduction
- Low battery alert



IC-A24

IC-A6

Icom Inc.



**SPECIFICATIONS**

**GENERAL**

- Frequency range :
  - Tx/Rx 118.000–136.975MHz
  - Rx 108.000–117.975MHz\*
  - Weather 161.650–163.275MHz\*\*
- \* IC-A24/E only. \*\* IC-A24/A6 USA/GEN only.
- Mode :
  - AM (6K00A3E)
  - Weather (IC-A24/A6) FM (16K0G3E)
- Channel spacing : 25kHz
- No. of memory channels : 200 (20 Ch × 10 banks)
- Power supply requirement : 7.4/7.2V DC (Battery pack)
  - 11.0V DC (External DC Jack)
- Current drain (at 7.2 V DC) :
  - Tx 1.5A typical
  - Rx Max. audio 300mA typical
  - Stand-by 70mA typical
- Operating temp. range :
  - IC-A24/A6 (USA/GEN) -10°C to +60°C; +14°F to +140°F
  - IC-A6 (AUS) -10°C to +50°C
  - IC-A24E/A6E (EUR) -20°C to +55°C
- Dimensions (W×H×D) : 54×129.3×35.5 mm
  - (projections not included) ; 2<sup>1</sup>/<sub>8</sub>×5<sup>3</sup>/<sub>2</sub>×1<sup>13</sup>/<sub>32</sub> in
- Weight (approx.) : 430g; 15.2oz
  - (with antenna and BP-210N)
- Antenna impedance : 50Ω (BNC type)

Measurement made in accordance with FCC part 87 for USA versions. EN 300-676 for Europe versions. AS/NZS 4583:1999 for Australia version. All specifications are subject to change without notice or obligation.

**TRANSMITTER**

- Output power (at 7.2V DC) :
  - IC-A24/A6 (USA/GEN) 5.0/1.5W typ. (PEP/CW)
  - IC-A6 (AUS) 3.6/1.0W typ. (PEP/CW)
  - IC-A24E/A6E (EUR) 3.6/1.0W typ. (PEP/CW)
- Audio harmonic distortion : Less than 10%
- Hum and noise ratio : More than 35dB
- Spurious emissions : More than 46dB (Except (IC-A24/A6 USA/GEN) operating freq. ±62.5kHz point)
- Harmonic spurious emissions :
  - IC-A6 (AUS) Less than -26dBm
  - IC-A24E/A6E (EUR) Less than -36dBm (Except operating freq. ±1MHz point)
- Frequency stability : ±5ppm
- Microphone connector : 3-conductor 2.5 (d) mm (1<sup>1</sup>/<sub>8</sub>" ) more than 100kΩ

**RECEIVER**

- Intermediate frequency : 1st/2nd 30.05MHz/450kHz
- Sensitivity (typical) :
  - IC-A24/A6 (USA/GEN)
    - VOR (AM 6dB S/N) Less than -3dBμV
    - COM (AM 6dB S/N) Less than -6dBμV
  - WX (FM 12dB SINAD) Less than -13dBμV
  - IC-A6 (AUS; with CCITT filter)
    - COM (AM 12dB SINAD) Less than -3dBμV
  - IC-A24E/A6E (EUR; with CCITT filter)
    - VOR (AM 6dB S/N) Less than -3dBμV
    - COM (AM 12dB SINAD) Less than -3dBμV

- Squelch sensitivity (at threshold) :
  - AM Less than 0dBμV
  - FM (weather Ch. only) Less than -5dBμV
- Selectivity : More than 7.5kHz/-6dB
  - Less than 25kHz/-60dB
- Hum and noise : More than 40dB
  - IC-A6 (AUS) More than 30dB
- Spurious response :
  - IC-A24/A6 AM More than 60dB
  - FM (Weather Ch) More than 30dB
  - IC-A24E/A6E AM More than 70dB
- Audio output power : More than 500mW typ. with an 8Ω load, 30% modulation
- Ext. speaker connector : 3-conductor 3.5 (d) mm (1<sup>1</sup>/<sub>8</sub>" )/ 8Ω

**Applicable U.S. Military Specifications**

Standard	MIL 810 C	MIL 810 D	MIL 810 E	MIL 810 F
Low Pressure	500.1 I	500.2 I, II	500.3 I, II	500.4 I, II
High Temp.	501.1 I	501.2 I, II	501.3 I, II	501.4 I, II
Low Temp.	502.1 I	502.2 I, II	502.3 I, II	502.4-3 I, II
Temp. Shock	503.1 I	503.2 I	503.3 I	503.4 I
Solar Radiation	505.1 I	505.2 I	505.3 I	505.4 I
Rain Drip	506.1 II	506.2 II	506.3 II	506.4 III
Humidity	507.1 I, II	507.2 II, III	507.3 II, III	507.4 -
Salt Fog	509.1 I	509.2 I	509.3 I	509.4 -
Dust Blowing	510.1 I	510.2 I	510.3 I	510.4 I
Vibration	514.2 VIII, X	514.3 I	514.4 I	514.5 I
Shock	516.2 I, II, V	516.3 I, IV	516.4 I, IV	516.5 I, IV

- Supplied accessories:** (\* depending on version)
- Battery pack, BP-210N or battery case, BP-208N\*
  - Belt clip, MB-103
  - Carrying case, LC-159\*
  - Wall charger, BC-110AR/DR\*
  - Headset adapter, OPC-499\*
  - Antenna, FA-B02AR
  - Handtrap

**OPTIONS**

\* Some options may not be available in some countries, or unavailable due to no T/A. Please ask your dealer for details.

**■ BATTERY CASE AND PACKS**

- **BP-208N BATTERY CASE** (6 × AA (LR6) alkaline cells.)
- **BP-209N BATTERY PACK** (Ni-Cd: 7.2V/1100mAh)
- **BP-210N BATTERY PACK** (Ni-MH: 7.2V/1650mAh)
- **BP-211N BATTERY PACK** (Li-Ion: 7.4V/1800mAh)

**■ CHARGERS AND POWER SUPPLY CABLES**

- **BC-110AR/DR WALL CHARGER**  
Used for regular charging of the connected battery pack. Same as supplied depending on version.
- **BC-119N DESKTOP CHARGER**  
+ **BC-145 AC ADAPTER**  
+ **AD-101 CHARGER ADAPTER**  
For rapid charging of battery pack, BP-209N, BP-210N or BP-211N. The BC-145 is supplied with the charger depending on version. Charging time: 1.5 to 2 hours.
- **BC-121N MULTI-CHARGER**  
+ **BC-157 AC ADAPTER**  
+ **AD-101 CHARGER ADAPTER** (6 pieces)  
For rapid charging of up to 6 batteries simultaneously. Six AD-101s are required. Charging time: 1 to 1.5 hours.
- **BC-144N DESKTOP CHARGER**  
+ **BC-145 AC ADAPTER**  
For rapid charging of battery pack, BP-209N or BP-210N. The BC-145 is supplied with the charger depending on version. Charging time: 1.5 to 2 hours.
- **CP-20 CIGARETTE LIGHTER CABLE WITH DC-DC CONVERTER**  
For operation and charging with a 12V/24V cigarette lighter socket.
- **OPC-656 DC POWER CABLE**  
For using the BC-121N with a DC power supply. (12–20 V DC required)

**■ BELT CLIPS AND LEATHER BELT HANGERS**

- **MB-103 BELT CLIP:** Alligator type. Same as supplied.
- **MB-86 SWIVEL BELT CLIP**  
A fast and easy way to remove the radio from your belt.
- **MB-96N SWIVEL LEATHER BELT HANGER**
- **MB-96F LEATHER BELT HANGER**  
Fixed type leather belt hanger. Use with MB-103.

**■ OTHERS**

- **HM-173 SPEAKER-MICROPHONE**  
Provides convenient lightweight operation while setting the transceiver in the cockpit or hanging it from your belt, etc.
- **LC-159 CARRYING CASE**
- **OPC-499 HEADSET ADAPTER CABLE**  
Works with most aviation headsets. Provides side tone function. Same as supplied with some versions.
- **FA-B02AR ANTENNA** : Same as supplied.



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