



VHF AIR BAND TRANSCEIVERS

IC-A110 IC-A110EURO



Rugged and reliable for serious ground crew communications

Setting a new standard for ground based communications, the IC-A110 /EURO provide durability and reliability in demanding operational environments.

- **Capable of being installed in any vehicle**
IC-A110/EURO are adaptable to vehicles working on a 12 V, as well as a 24 V power source.
- **Front mounted loud speaker**
A loud speaker mounted in the front of the transceiver is free of any obstacles blocking audio reproduction. And 10 W, of powerful output power is available for the external speaker.
- **Dial selection**
With a simple rotation of the dial, frequently used memory channels, or desired frequency selection can be made.

- **Memory channel name capability**

Up to 7-character memory names can be assigned for each channel. Allows simple and quick channel recognition and selection.

- **Side tone function**

Operator's transmitted messages and calls are audio modulated and can be heard by standard airband headsets*, even in the most demanding operating airport conditions.

*Option OPC-871 is necessary when using standard type headset.

- **Convenient on hook scan functions**

Hanging the microphone on the mic. hanger activates the auto scan function. When released, the transceiver will return to the last used, or priority channel, depending on the selection.

- **Usable in extreme cold**

The adopted LCD guaranteed usable in temperatures from -30°C to $+70^{\circ}\text{C}$ (-22°F to $+158^{\circ}\text{F}$). Normal performance, as well as display indications, are guaranteed even in extremely cold areas.

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ADDITIONAL FEATURES

- Additional to the predominantly used 25 kHz channel spacing, an extra version complying to new regulations is available for 8.33 kHz channel spacing
- Equipped EEPROM system provides maintenance free memory backup capability, without the use of a separate backup battery
- Various scan functions, such as VFO and priority scans are available
- Limited number of keys for simple manipulation, but providing advanced multi-functions
- A total of 20 memory channels are available
- Ideal compact size of 150(W)×50(H)×180(D) mm* to mount in various types of vehicles
*5²/₃₂(W)×1³¹/₃₂(H)×7³/₃₂(D) in
- 36 W (pep) of powerful output
- Excellent durability to cope with even the toughest workplace
- Memory channel only operation possible via PC programming
- Hand microphone supplied

SPECIFICATIONS

GENERAL

- Frequency range : 118.000–136.975 MHz
- Channel spacing : 8.33/25 kHz auto selection (according to version) or 25 kHz only
- Mode : 6K00A3E (AM)
- No. of memory Ch. : 20
- Antenna connector : SO-239 (50 Ω)
- Power supply requirement: (negative ground) 13.75 V DC or 27.5 V DC
- Current drain (at 13.75 V DC):
Transmitting 5.0 A max.
Receiving 4.0 A (at AF max.)
0.5 A (at stand-by)
- Operating temperature range:
IC-A110 -30°C to +60°C
; -22°F to +140°F
IC-A110EURO -20°C to +55°C
- Frequency stability :
IC-A110 ±5 ppm (-30°C to +60°C)
IC-A110EURO ±1 ppm (0°C to +40°C)
- Dimensions : 150(W)×50(H)×180(D) mm (projections not incl.)
5²/₃₂(W)×1³¹/₃₂(H)×7³/₃₂(D) in
- Weight (approx.) : 1.5 kg; 3 lb 5 oz

Measurements made in accordance with RTCA D0-186a (Class C/E, Class 4/6) or EN 300 676. All stated specifications are and subject to change without notice or obligation.

*These specification items are not available for the IC-A110 due to approval test specifications.

Type approval for the IC-A110/EURO varies between countries. Ask your dealer for availability.

TRANSMITTER

- Output power : 36 W typ. pep (9 W typ. for CW)
- Modulation limiting : 70–100% (IC-A110)
- Modulation compression*: Linear 85%
Max. 95%
- AF harmonic distortion : Less than 10% (at max. mod.)
- Hum and Noise ratio : More than 40 dB
- Spurious emissions :
IC-A110 Less than -16 dBm
IC-A110EURO 9 kHz to 1 GHz Less than -46 dBm (Less than -36 dBm for harmonics in 30 MHz to 1 GHz range)
1–4 GHz Less than -40 dBm (Less than -30 dBm for harmonics)
- Adjacent Ch. power* : Less than 60 dB (25 kHz)
Less than 50 dB (8.33 kHz)
- Microphone connector : 8-pin modular (600 Ω)

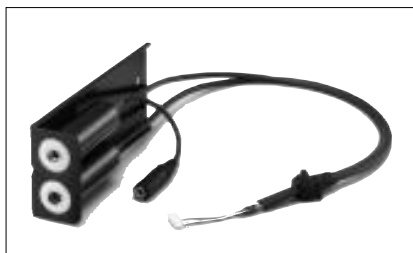
RECEIVER

- Receiving system : Double conversion super-heterodyne
- Intermediate freq. : 1st 38.85 MHz
2nd 450 kHz
- Sensitivity (pd) :
IC-A110 Less than 1 μV (at 6 dB S/N)
IC-A110EURO Less than +5 dBμV (at 12 dB SINAD)
- Squelch sensitivity (pd; at threshold):
IC-A110 Less than 0.3 μV
IC-A110EURO Less than -6 dBμV
- Selectivity :
25 kHz Ch. spacing Less than 6 dB±8 kHz
More than 40 dB±17 kHz
More than 60 dB±25 kHz
8.33 kHz Ch. spacing Less than 6 dB±2.778 kHz
More than 60 dB±7.37 kHz
- Spurious response : More than 74 dBμ (IC-A110)
More than 70 dB (IC-A110EURO)
- Intermodulation rejection ratio*: More than 64 dB
- Blocking/desensitisation*: More than 70 dB
- Cross modulation rejection*: More than 70 dB
- Audio output power (at 13.75 V; 10% dist.; 60% mod.):
Internal speaker 1.5 W typical w/8 Ω load
External speaker More than 10.0 W w/8 Ω load
Headset (side tone) More than 0.1 W w/500 Ω load
- AF output impedance : EXT SP 8 Ω
Headset (side tone) 500 Ω

Supplied Accessories

- Hand mic. ○ DC power cable ○ Fuses
- Mounting bracket kit ○ Mic. hanger kit

OPTION



OPC-871
HEADSET ADAPTER
For connection with standard airband headset.

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Certificate Number Q14190

Icom Inc. (Japan), is an ISO9001 certification acquired company.

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