

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.

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
*5²⁹/₃₂(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)
• 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.) 5 ²⁹ / ₃₂ (W)×1 ³¹ / ₃₂ (H)×7 ³ / 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.

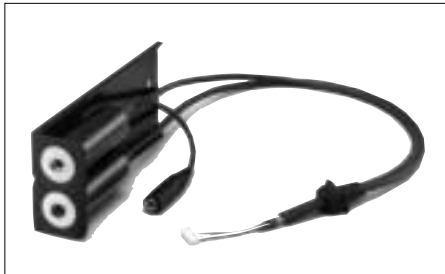
TRANSMITTER	
• Output power	: 36 W typ. pep (9 W typ. for CW)
• Modulation limiting	: 70–100% (IC-A110)
• Modulation compression*	: Linear 85% Max. 95%
• AF harmonic distortion	: Less than 10% (at max. mod.)
• Hum and Noise ratio	: More than 40 dB
• Spurious emissions	
IC-A110	Less than –16 dBm
IC-A110EURO	
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)

Supplied Accessories

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

RECEIVER	
• Receiving system	: Double conversion superheterodyne
• 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

OPTION



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

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acquired company.

Certificate Number Q14190