

# IC-A110 IC-A110EURO

Meets  
**MIL-STD 810**



## ***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°C (-22°F to +158°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  
\*5<sup>29</sup>/<sub>32</sub>(W)×1<sup>31</sup>/<sub>32</sub>(H)×7<sup>9</sup>/<sub>32</sub>(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 automatic selection
- 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<sup>29</sup>/<sub>32</sub>(W)×1<sup>31</sup>/<sub>32</sub>(H)×7<sup>9</sup>/<sub>32</sub>(D) in
- Weight (approx.) : 1.5 kg; 3 lb 5 oz

Measurements made in accordance with RTCA D0-186a (Class C/E, Class 4/E) 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  
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.

## Applicable U.S. Military Specifications

Icom makes rugged products that meet MIL-STD requirements and strict environmental standards as follows.

Standard	MIL 810C		MIL 810D		MIL 810E	
	Method	Proc.	Method	Proc.	Method	Proc.
High Temp.					501.3	II
Low Temp.					502.3	II
Humidity					507.3	II
Vibration	514.2	X	514.3	I	514.4	I
Shock					516.4	IV

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Certificate Number Q14190

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