

## 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°C (-22°F to +158°F). Normal performance, as well as display indications, are guaranteed even in extremely cold areas.

## IC-A110 • IC-A110 EURO

#### 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
- $*5^{29}/_{32}(W)\times 1^{31}/_{32}(H)\times 7^{3}/_{32}(D)$  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 118.000-136.975 MHz Frequency range Channel spacing : 8.33/25 kHz auto selection or 25 kHz only (according to version) Mode : 6K00A3E (AM)

- . No. of memory Ch. : 20 Antenna connector : SO-239 (50 Ω)
- Power supply requirement: 13 75 V DC or 27 5 V DC (negative ground) automatic selection
- Current drain (at 13.75 V DC): Transmitting 5.0 A max. 4 0 A (at AF max ) Receiving 0.5 A (at stand-by)
- · Operating temperature range: -30°C to +60°C IC-A110
- ; -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) : 150(W)×50(H)×180(D) mm Dimensions
- $5^{29}$ /32(W)× $1^{31}$ /32(H)× $7^{3}$ /32(D) in (projections not incl.) · 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 vour dealer for availability

#### TRANSMITTER

- 36 W typ. pep (9 W typ. for CW) Output power Modulation limiting 70-100% (IC-A110) Modulation compression\*: · I inear 85% Max. 95%
- AF harmonic distortion : Less than 10% (at 85% mod.) : More than 40 dB Hum and Noise ratio
- 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)
    - Less than -40 dBm (Less than -30 dBm for harmonics) : Less than 60 dB (25 kHz)
- · Adjacent Ch. power' Less than 50 dB (8.33 kHz) Microphone connector: 8-pin modular (600 Ω)

#### Supplied Accessories

1-4 GHz

- O Hand microphone, HM-161
- O DC power cable O Mounting bracket kit
- O Microphone hanger kit O Fuses

#### RECEIVER

- · Receiving system : Double conversion super
  - heterodyne
- Intermediate freq. 38 85 MHz · 1st 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 More than ±8 kHz (at -6dB) Less than ±17 kHz (at -40dB)
  - Less than ±25 kHz (at -60dB) 8.33 kHz Ch. spacing More than ±2.778 kHz (at -6dB) Less than ±7.37 kHz (at -60dB)
- : More than 74 dBµ (IC-A110) Spurious response 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.): 1.5 W typical w/8 Ω load Internal speaker External speaker More than 10.0 W w/8 Q load More than 0.1 W w/500  $\Omega$  load
- Headset (side tone) AF output impedance EXT SP 8Ω Headset (side tone) 500  $\Omega$

#### Applicable U.S. Military Specifications

Icom makes rugged products that have been tested to and passed the following MIL-STD requirements and strict environmental standards.

Standard	WILSIUC		MIL 810 D		WILSIDE	
	Method	Proc.	Method	Proc.	Method	Proc.
Low Pressure	500.1	I	500.2	I, II	500.3	I, II
High Temp.	501.1	I	501.2	I, II	501.3	I, II
Low Temp.	502.1	I	502.2	I, II	502.3	I, II
Temp. Shock	503.1	I	503.2	I	503.3	I
Solar Radiation	505.1	I	505.2	I	505.3	I
Rain	506.1	I, II	506.2	I, II	506.3	I, II
Humidity	507.1	I, II	507.2	II, III	507.3	II, III
Salt Fog	509.1	I	509.2	I	509.3	I
Dust	510.1	I	510.2	I	510.3	I
Vibration	514.2	VIII, X	514.3	I	514.4	I
Shock	516.2	I, II, IV	516.3	I, IV	516.4	I, IV

#### OPTION



**OPC-871** HEADSET ADAPTER

For connection with standard airband headset.



HM-161 HAND MICROPHONE Same as supplied.

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