

## INSTRUCTION MANUAL

# VHF AIR BAND TRANSCEIVER **IC-A110**

This device complies with Part 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful interference.

**Icom Inc.**

# 8 SPECIFICATIONS

## ◇ General

- Frequency coverage : 118 to 136.975 MHz
- Channel spacing : 25 kHz or 25/8.33\* KHz
- Mode : AM (6K00A3E)
- Number of memory channels : 20
- Acceptable power supply : 13.75\* V or 27.5\* V DC (negative ground)  
\*Automatic selection
- Usable temp. range : -30°C to +60°C
- Frequency stability : ±5 ppm
- Current drain (at 13.75 V DC):
  - Tx : 5 A (max.)
  - Rx : 4 A (at AF max.)  
0.5 A (at STAND BY)
- Dimensions : 150 (W)X50 (H)X180 (D) mm  
(projections not incl.)  
5<sup>29/32</sup>(W)X1<sup>31/32</sup>(H)X7<sup>3/32</sup>(D) in
- Weight : 1.5 Kg; 3 lb 5 oz

## ◇ Transmitter

- Output power : 36 W (pep) typical  
9 W (carrier) typical
- Modulation : Last Stage modulation
- Modulation limiting : 70 to 100 %
- Audio harmonic distortion : Less than 10 %  
(at 85 % modulation)
- Hum and noise ratio : More than 40 dB
- Spurious emissions : -16dBm or less
- Antenna impedance : Standard 50 Ω with SWR <3

## ◇ Receiver

- Receive system : Double conversion  
superheterodyne
- Intermediate frequencies : 1st 38.85 MHz  
2nd 450 KHz
- Sensitivity (at 6dB S/N) : Less than 1 μV (pd)
- Squelch sensitivity (at threshold) : Less than 0.35 μV (pd)
- Selectivity : 25 KHz ch. spacing  
: More than ±8 KHz (at -6 dB)  
Less than ±17 KHz (at -40 dB)  
Less than ±25 KHz (at -60 dB)  
More than ±2.778 KHz (at -6 dB)  
Less than ±7.37 KHz (at -60 dB)
- Spurious response rejct, : More than 74 dBμ
- Audio output power : More than 10 W (at 13.75 V DC  
with 8 Ω load 60 % MOD. 10%  
distortion)
- Side tone : More than 100 mW (with 500 Ω  
load 60% MOD. 10 % distortion)
- Hum and noise : More than 25 dB
- Audio output impedance : Ext. SP 8 Ω  
Side tone 500 Ω

## \*Except USA version

All stated specifications are subject to change without notice or obligation.

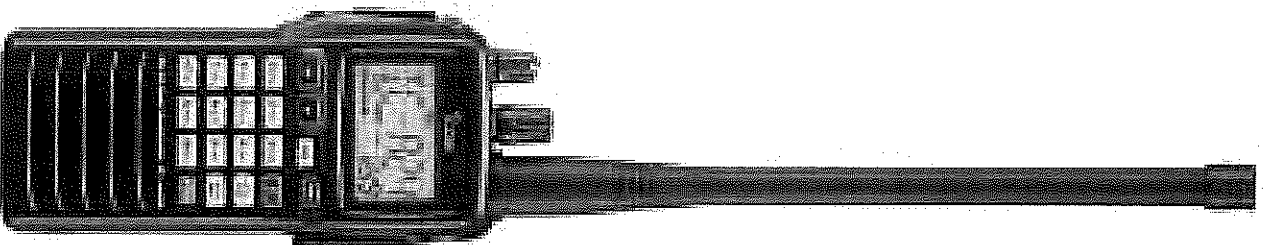
# ICOM<sup>®</sup>

## INSTRUCTION MANUAL

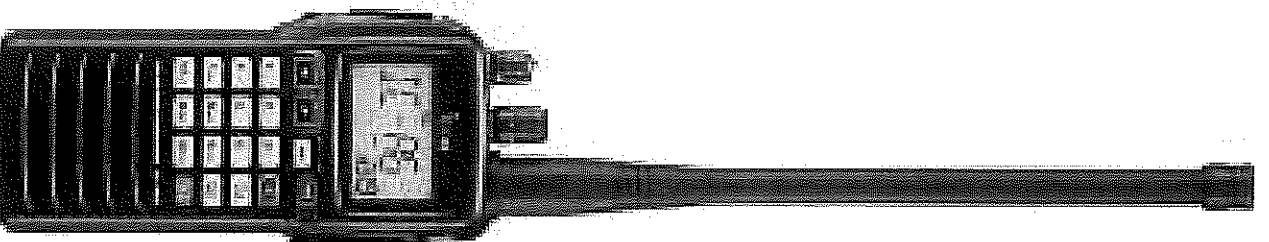
VHF AIR BAND TRANSCEIVER  
**IC-A24**  
**IC-A6**

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**Icom Inc.**



IC-A24



IC-A6

# SPECIFICATIONS 10

## ◇ General

- Frequency coverage (MHz): TX 118.000 to 136.975  
RX 108.000 to 136.975\*1  
WX 161.650 to 163.275\*2
- \*1: IC-A24 only, IC-A6; 118.000 to 136.975 MHz
- \*2: U.S.A. version only.
- Mode : 6K00A3E  
16K0G3E (161.65 to 163.275 MHz)
- Channel spacing : 25 kHz
- Number of memory channels : 200 (20 CH. × 10 BANK)
- Power supply requirement : Specified battery packs/case or 11.0 V DC at external DC jack
- Usable temp. range : -10°C to +60°C (+14°F to +140°F)
- Current drain :
 

TX	1.5 A typical
Rx	70 mA typical (at stand by) 300 mA typical.(at AF max.)
- Antenna connector : BNC 50 Ω (nominal)
- Dimensions : 54(W)×129.3(H)×35.5(D) mm  
(projections not incl.)  
2¼(W)×5¾(H)×1¼(D) inch
- Weight : Approx. 180 g (6.35 oz)  
(Without the battery pack and antenna.)

## ◇ Transmitter

- Output power : 5 W (PEP) typical  
1.5 W (CW) typical
- Modulation : Low level modulation  
: 70 to 100%
- Modulation limiting : Less than 10% (at60 % mod.)
- Audio harmonic distortion : More than 35 dB
- Hum and noise ratio : More than 46 dB (except operating frequency ±6.25 Hz range)
- Spurious emissions : 3-conductor 2.5(d) mm (1/10")/more than 100 kHz
- Microphone connector

## ◇ Receiver

- Receive system : Double conversion  
superheterodyne
- Intermediate frequencies : 1st 30.05 MHz  
2nd 450 kHz
- Sensitivity VOR (AM 6dB S/N): Less than -3 dBμ typical  
COM (AM 6dB S/N): Less than -6 dBμ typical  
WX (FM 12dB SINAD): Less than -13 dBμ typical
- Squelch sensitivity : AM Less than 0 dBμ  
FM Less than -7 dBμ  
: More than 7.5 kHz/-6 dB)
- Selectivity : Less than 25 kHz/-60 dB)
- Spurious response rejection : AM More than 60 dB  
FM More than 30 dB
- Audio output power : More than 500 mW typical  
(at 10% distortion with an 8 Ω load, 30% mod.)
- Noise and hum : More than 40 dB at 30% mod.
- External SP connector : 3-conductor 3.5 (d) mm  
(1/8")/8 Ω

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