

# IC-A120E



# High Visibility, Simple Operation

The full dot-matrix LCD allows for high visibility and clearly shows alphanumeric characters and icons. Programming memory channels and other radio settings can be simply made from the front panel by radio users. These customizing functions can also be restricted, depending on the radio settings.

# Optional Bluetooth® Headset Connectivity

With the optional UT-133A Bluetooth® unit, the IC-A120E can be used with a third-party wireless Bluetooth® headset. Also, using the optional VS-3 Bluetooth® headset, the side tone function is available.

## Active Noise Cancelling (ANC)

The newly added built-in ANC reduces background noise in the received and transmitting signals. This function is effective in extremely noisy airport environments full of aircraft noise. The automatic noise limiter (ANL)\* reduces pulse-type noise such as engine ignition.

\* The ANL and ANC functions cannot be used at the same time.

## **IP54 Dust-Protection and Water Resistance**

The IC-A120E has IP54 dust-protection and water resistance. This construction allows for use in open-air vehicles.

#### **Dualwatch and ON-Hook Scan Functions**

The dualwatch function checks the priority and operating channels alternatively. The ON-Hook scan function automatically starts scanning when the hand microphone is hooked on the microphone hanger. When you take the microphone OFF hook, the scanning stops at the priority channel or displayed channel (according to the preprogramming).

#### **Side Tone Function**

When using a third-party headset with the optional OPC-871A headset adapter, the side tone function allows you to monitor your own transmitted voice via the connected headset. Even when using a hand microphone, your voice can be monitored from the headset.

### Optional Speaker-Microphone, HM-217

Listen to received audio through the HM-217's built-in speaker. From the speakermicrophone's front panel, access up/down buttons and two programmable buttons (P1/P2) which can be used as a shortcut to activate frequently used functions.

#### Other Features

- · A total of 200 memory channels with 12-character channel names
- Both 12- and 24- volt systems compatible
- 8.33 kHz\* and 25 kHz channel spacing For EUR version only
- 36W (P.E.P) RF output power
- · Dualwatch and priority scan functions
- · Power on password protection
- · PC programming capability
- CI-V Commands for external control
- VE-PG3 RoIP gateway for interconnect with other radio devices
- · Compliant with European E-marking for installation in vehicles

#### **OPTIONS**









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#### **SPECIFICATIONS**

GENERAL		IC-A120E	
Frequency range	EUR	118.000-136.992MHz	
(Tx/Rx)	AUS	118.000-136.975MHz	
Channel spacing	EUR	25kHz /8.33kHz	
	AUS	25kHz	
Type of emission	EUR	6K80A3E, 5K00A3E	
	AUS	6K80A3E	
Operating temperatu	re	–20°C to +55°C	
Antenna connector		SO-239 (50Ω)	
Number of memory channels		200 channels	
Power supply require	ment	13.75V/27.5V DC	
Current drain	Tx	5.0A (maximum)	
(at 13.75V)	Rx	4.0A (at AF max.), 0.5A (at stand-by	
Dimensions		161 (W) ×45 (H) ×175 (D) mm	
(Projections not included)		approximately	
Weight		1.5kg approximately (main unit)	
TRANSMITTER			
Output power (at 13.75V)		9.0W+1.5dB/-3dB (-20°C to +55°C	
(Carrier Power)		9.0W±1.5dB (+15°C to +35°C)	
Frequency stability		±1ppm (0°C to +40°C)	
Spurious emissions*	1		
9kHz to 30MHz		Less than -46dBm	
30MHz to 1GHz		Less than -36dBm/ Less than -46dBm*2	
1GHz to 4GHz		Less than -30dBm/ Less than -40dBm*	
Microphone impedar	ice	600Ω	
RECEIVER			
Intermediate frequencies		38.85MHz/450kHz (1st/2nd)	
Sensitivity (at 12dB SI	NAD)	Less than 1.8 µV (with CCITT filter	
Selectivity 8	.33kHz	2.778/7.37kHz (6dB/60dB)	
	25kHz	8/25kHz (6dB/60dB)	
Spurious response		More than 70dB	
Audio output power		(10% distortion, 60% modulation)	
Addio odiput power		1.5W typical	
Internal SP (8Ω loa	ıd)		
	,	More than 10W More than 100mW	

Measurements made in accordance with EN 300 676-1. All stated specifications are subject to change without notice or obligation.

#### Applicable U.S. Military Specifications

Standard	MIL 810 G		
	Method	Procedure	
Low Pressure	500.5	I, II	
High Temperature	501.5	I, II	
Low Temperature	502.5	I, II	
Temperature Shock	503.5	I-C	
Solar Radiation	505.5	I	
Humidity	507.5	II	
Vibration	514.6	I	
Shock	516.6	I, IV	
Alexander and indept MIL OTD 040 C. D. Fand F.			

Also meets equivalent MIL-STD-810-C, -D, -E and -F.

#### Applicable IP Rating

Ingress Protection Standard		
Dust & Water	IP54 (Dust-protection and water resistance)	
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#### **Supplied Accessories**

D Hand microphone, HM-216

www.icom.co.jp/world

- O DC power cable O Mounting bracket kit
- O Microphone hanger kit O Fuses

Count on us!

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