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VHF AIR BAND TRANSCEIVER

IC-A220

Innovation at it's Best. OLED Screen with Easy Installation



Rugged MIL-STD 810

High Visibility OLED Screen

The OLED (Organic Light Emitting Diode) emits light from itself, so a display backlight is not required. It provides higher contrast, wider viewing angle of almost 180 degrees and faster response time than a conventional LCD. The IC-A220's display has a wide active area, allowing operating frequencies to be maximized in the display, while operating status can be shown on both top and bottom of the display.

Large Switch Buttons

The IC-A220 has large switch buttons on the front panel. The most frequently used FLIP-FLOP (Frequency exchange) switch button is designed large enough to be pushed with ease. All switch buttons and knobs are illuminated with pure-white backlighting, which are the same color as the OLED display.



Auto Squelch Function

The squelch sensitivity is automatically adjusted in accordance with the noise level to eliminate annoying background noise and unwanted signals.

Quick Squelch Adjustment

The auto and manual squelch including squelch level can be quickly adjusted with the Volume knob. The squelch test function temporarily opens the squelch and allows you to monitor signals.

GPS Memory Function

When connected to an external GPS receiver* equipped with an airport frequency database, the frequency data such as nearby airports can be transferred and made available in the IC-A220.

* Ask your dealer for available GPS receiver details.

Optional Power Supply PS-80 for the Ground

When combined with the IC-A220, the optional PS-80 power supply provides a convenient base station operation on the ground. The PS-80 includes built-in speaker and HM-176 hand microphone.



IC-A220

Auto Dimmer

The auto dimmer function sets display and key backlighting brightness. The IC-A220's high sensitivity light sensor covers a wide illumination range.

External Dimmer Control

By connecting to an external dimmer control system on the aircraft, the IC-A220's dimmer function can be linked with the aircraft dimmer level.

Intercom Function

The IC-A220 has a built-in voice activated intercom function allowing the pilot to talk with the copilot via the headset. The IC-A220 has adjustable audio level and squelch control functions.

Remote Control Capability

You can remotely control the FLIP-FLOP (frequency exchange), intercom and recall switches via the rear panel connector.

8.33 kHz Channel Spacing

The IC-A220 allows switching between 8.33 kHz and 25 kHz frequency steps in the menu mode.

* Use of 8.33 kHz channel spacing may be prohibited depending on country.

Memory Channels

The IC-A220 has 20 memory channels and 20 history memory channels respectively. Often used memory channels can be instantly recalled. Group memory channels are organized into 10 memory channels by five groups (total 50 channels). Weather channel scanning function searches for weather channel signals.

Other Features

- Dualwatch and priority watch functions
- One touch access to 121.5 MHz emergency frequency
- Side tone function for monitoring your voice with a headset
- ANL (Automatic noise limiter) function reduces pulse type noise
- PC programming capability
- Dial lock and panel lock
- Time-out-timer
- D-SUB 25-pin connector and MIL-Spec M39029/63-368 compliant socket pins
- · Slim 33 mm (1.3 inch) height can be installed in a limited panel space
- Two types of menu mode; settings menu and configuration menu
- Both 13.8 V and 27.5 V electrical systems compatible

SPECIFICATIONS

GENER#	\L		
Frequenc	cy coverage		
Tx/Rx	8.33 kHz spacing	118.000-136.992 MHz	
	25 kHz spacing	118.000-136.975 MHz	
Rx	Weather channel	161.650-163.275 MHz	
Frequency spacing		8.33 kHz/25 kHz	
Mode		AM (6K00A3E, 5K60A3E)	
Frequency stability		±5 ppm	
Operating temperature		-20°C to +55°C; -4°F to +131°F	
Antenna impedance		50 Ω	
Number of memory		20 regular, 50 group memory,	
channels		10 GPS, 20 history, 10 weather	
Power supply requirement		13.8 V/27.5 V DC (Negative ground)	
Dimensions (W \times H \times D,		160 × 34 × 271 mm;	
Projections not included)		6.3 × 1.34 × 10.67 in	
Weight (approximately)		1.0 kg; 2.2 lb	
TRANSM	IITTER		
Output power		8 W (Carrier power)	
Spurious emission		-60 dBc	
Modulation limiting		70% (Maximum 98%)	
Microphone impedance		600 Ω	
RECEIVI	ER		
Intermed	iate frequencies	38.85 MHz/450 kHz (1st/2nd)	
Sensitivit	y AM (6 dB S/N)	Less than 2 μV	
	FM (12 dB SINAD)	Less than 1.4 μV	
Selectivit	y 25 kHz spacing	±3 kHz/±22 kHz (6 dB/60 dB)	
	8.33 kHz spacing	±2.778 kHz/±7.37 kHz (6 dB/60 dB)	
Spurious response		More than 74 dBµ	
Audio output power			
	External SP	5 W with a 4 Ω load	
	Headphone	60 mW with a 500 Ω load	
Measurements made in accordance with RTCA DO-186R			

Measurements made in accordance with RTCA DO-186B. All stated specifications are and subject to change without notice or obligation.

Applicable U.S. Military Specifications

Standard	MIL 810 G			
Stanuaru	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		

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

OPTIONS

Some options may not be available in some countries. Please ask your dealer for details



External speaker, SP-35 and micro phone. HM-176 are included

HM-176 and MBA-3 rear panel are supplied, depending on version. • 200 (W) × 200 (H) × 300 (D) mm SP-35 EXTERNAL SPEAKER

For installation into a card edge con-



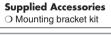


PS-80 POWER SUPPLY



nector equipment including PS-80.

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