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VHF AIR BAND TRANSCEIVER

IC-A220

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



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.



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

GENERAL	
Frequency 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 channels	20 regular, 50 group memory, 10 GPS, 20 history, 10 weather
Power supply requirement	13.8 V/27.5 V DC (Negative ground)
Dimensions (W × H × D, Projections not included)	160 × 34 × 271 mm; 6.3 × 1.34 × 10.67 in
Weight (approximately)	1.0 kg; 2.2 lb
TRANSMITTER	
Output power	8 W (Carrier power)
Spurious emission	–60 dBc
Modulation limiting	70% (Maximum 98%)
Microphone impedance	600 Ω
RECEIVER	
Intermediate frequencies	38.85 MHz/450 kHz (1st/2nd)
Sensitivity AM (6 dB S/N)	Less than 2 μV
FM (12 dB SINAD)	Less than 1.4 μV
Selectivity 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-186B. All stated specifications are and 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

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.

MB-53 MOUNTING BRACKET



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

PS-80 POWER SUPPLY



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

HM-176 HAND MICROPHONE



Same as supplied with MB-53 and PS-80.

SP-35 EXTERNAL SPEAKER



Same as supplied with MB-53.

MBA-3 REAR PANEL ADAPTER



For installation into a card edge connector equipment including PS-80.

Supplied Accessories

- Mounting bracket kit

REAR PANEL VIEW



D-Sub 25-pin type connector

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