

# COTEL UK RENTAL

WIRELESS COMMUNICATIONS 4 BUSINESS

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VHF AIR BAND TRANSCEIVER

## 8.33/25 kHz Ground to Air Radio with Class Leading 1500 mW Powerful Audio



- 8.33 kHz and 25 kHz channel spacing
- 1500 mW loud audio provides clear communications
- 6 W (PEP) /1.8 W (carrier) RF output power

### Built-in Bluetooth® for Hands-Free Operation\*

\* Bluetooth operation depending on the transceiver version.



### Large capacity battery pack provides 17 hours\* of long battery life

\* With BP-280. Typical operation with  
TX : RX : Standby = 5:5:90. (Bluetooth OFF, backlight OFF)

### Compact, waterproof durable body (IP67/54 and MIL-STD-810-G)

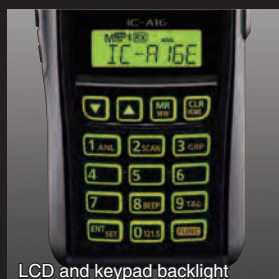
### LCD and key backlight for night time operation

### Compatible\* with third-party aviation headsets

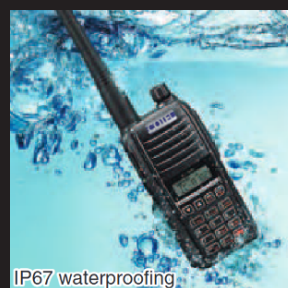
\* Optional headset adapter OPC-2401 required.

### And More

- Auto Noise Limiter (ANL) for noise reduction
- Side Tone function • Internal VOX capability
- 200 memory channels with 8 character names
- BNC type antenna connector



LCD and keypad backlight



IP67 waterproofing



1500 mW  
powerful audio



# Redefining VHF Airband Communication from the Ground Up



## General Functions

### 6 Watts High RF Output Power

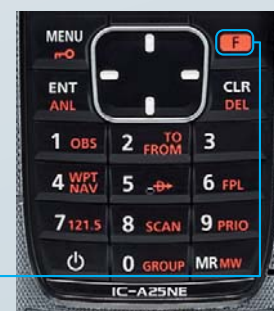
For expanded communication coverage, output power has been increased to approximately 6 W typical (PEP)/ 1.8 W typical (carrier) compared to the IC-A24E (5/1.5 W PEP/carrier).

### Easy-to-use Interface

Often used functions are assigned to the keypad and you can directly access a desired function. The enlarged flat sheet keypad offers smooth and swift operation.

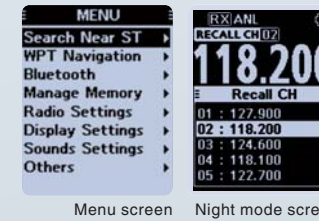
After pushing the [F] key, you can directly access a function printed on the keypad in orange

\* Photo is of the IC-A25NE.



### 2.3 inch Large High Visibility LCD

The 2.3 inch large, high contrast and highly visible LCD displays user-friendly, graphic screens and ensures good readability under direct sunlight. The operating frequency in large characters can be recognized at a glance. In addition, the night mode option enables easy viewing in low light conditions.



### “Flip-Flop” Channel Recall

The IC-A25NE/CE stores the last 10 channels used. You can easily recall those channels by using the directional keys, the channel knob or the keypad. This is convenient for switching between several channels, such as NAV and COM channels. In addition, you can freely edit (replace, delete and change order) the stored recall channels.



Recall channel screen

### Built-in Bluetooth® for Hands-Free Operation (IC-A25NE)

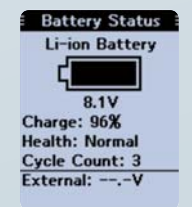
A third-party wireless Bluetooth® headset, like a 3M™ Peltor™ WS™ 5\*, provides convenient hands-free operation. Also, by using the optional VS-3 Bluetooth® headset, the side tone function can be used.

\* Compatibility not guaranteed.

### Intelligent Battery with Detailed Battery Status

The supplied BP-288, 2350 mAh typical intelligent battery pack, provides up to 10.5 hours\* of operating time. You can check the condition of the battery pack in the battery status screen. This is very useful for optimum charging and battery health maintenance.

\* Typical operation with Tx : Rx (Max.audio); standby=5:50. (Bluetooth® OFF, GPS ON)



Detailed battery information screen

### Other Features

- IP57 dust-protection and waterproof construction
- Operate with six AA size alkaline batteries with the BP-289 battery case
- BNC antenna
- 121.5 MHz emergency key
- Priority watch
- VFO scan, memory channel scan, priority scan
- ANL (Auto Noise Limiter) for noise reduction
- Side tone function enables you to hear your own voice from an external aviation headset
- Internal VOX capability
- 300 memory channels (in 15 memory groups) with 12 character names
- 8.33 kHz channel spacing

## Navigation Functions\* (for the IC-A25NE)

### VOR Navigation Functions

The **CDI (Course Deviation Indicator)** is detailed like a real VOR instrument, and displays any deviation from your course.

The **OBS (Omni Bearing Selector)** enables you to change course from the original flight plan.

The **TO-FROM indicator** shows the position relationship between your aircraft and the course selected by the OBS.

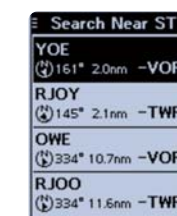
The **ABSS (Automatic Bearing Set System)** function enables you to set the current course as a new course in two simple steps.



VOR screen

### Near Station Search Function

The near station search function assists you in accessing nearby ground stations. The function searches for nearby stations using the station memories that have GPS position information. To use the near station search function, location data and frequencies of the ground stations must be programmed.



Near station search function screen

### Built-in GPS Receiver with Simplified Waypoint NAV

The simplified waypoint NAV guides you to a destination by using current position information from GPS (also GLONASS and SBAS). The waypoint NAV has two functions: Direct-To NAV and Flight Plan NAV. Up to 10 flight plans and 300 waypoints can be memorized in the IC-A25NE.

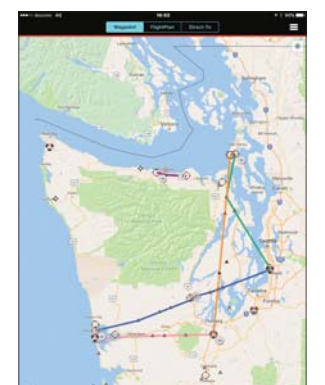


Waypoint NAV screen

### Flight Plan with Android™ /iOS™ App

Using the RS-AERO1A (Android) or RS-AERO1I (iOS) application, you can make flight plans on an Android/iOS device and import the plan into the IC-A25NE via Bluetooth®.

The following four functions are available: create a flight plan, set Direct-To NAV, display flight plan information and display waypoint information.



RS-AERO1I map screen example ©2017 Google-Map data ©2017 Google

\* Additional certification may be required for some countries. Enquire with your local authority for details.



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## Top Performance Mobile Airband Radio

with Active Noise Cancelling and Bluetooth® Wireless Connectivity



### 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-133 Bluetooth® unit, the IC-A120/E can be used with a third-party wireless Bluetooth® headset. Also, using the optional VS-3 Bluetooth® headset, the side tone function is available.

### ON-Hook Scan and Dualwatch Functions

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

### Optional Speaker-Microphone, HM-217

The built-in speaker of the HM-217 allows to listen to received voice by pulling the HM-217 close to your ear. The programmable buttons (P1/P2) on the front panel can be used as a shortcut to activate frequently used functions

### 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-A120/E has IP54 dust-protection and water resistance. This construction allows for use in open-air vehicles.

### 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.

### Other Features

- A total of 200 memory channels with 12-character channel names
- Both 12- and 24- volt systems compatible
- 8.33 / 25 kHz channel spacing
- 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

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## High-Quality Panel Mount Radio with Clear Visibility OLED Screen

### High Visibility OLED Screen

The OLED (Organic Light Emitting Diode) emits light from itself, so a display back-

light 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, operating frequencies' characters can be maximized in the display, while operating status can be shown on both top and bottom of the 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 accessed with the Volume knob. The squelch test function temporarily opens the squelch and allows you to monitor signals.

### 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.

### 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.

### 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 5 groups (total 50 channels). Weather channel scanning function searches for weather channel signals.

### Remote Control Capability

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

### 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.

### TSO/ETSO Certification

The IC-A220 TSO version can be used as a primary VHF radio in general aviation (part 23) aircraft\*. The IC-A220 TSO version is also accepted as an ETSO radio under the TSO/ETSO reciprocal acceptance policy.

### Configuration Menu

To improve operability, menu items are divided into two modes, a settings menu and a configuration menu. Seldom-changed settings can be set in the configuration menu, while normal settings can be made in the settings menu.

### Other Features

- Dualwatch and priority watch functions
- One touch access to 121.5 MHz emergency frequency
- Slim 33 mm (1.3 inch) height can be installed in a limited panel space
- Side tone function for monitoring your voice with a headset
- ANL (Automatic noise limiter) function reduces pulse type noise