

VHF AIR BAND TRANSCEIVERS

IC-A25NE·IC-A25CE



IC-A25NE
IC-A25CE

SPECIFICATIONS

| | IC-A25NE | IC-A25CE |
|--|---|----------------------------|
| GENERAL | | |
| NAV and COM | NAV and COM channels | COM channels |
| Frequency range | Tx: 118.000–136.992 MHz Rx: 108.000–136.992 MHz | Tx/Rx: 118.000–136.992 MHz |
| Number of memory channels | 300 channels/15 groups | |
| Channel spacing | 25/8.33 kHz | |
| Type of emission | 6K80A3E, 5K00A3E | |
| Power supply requirement | 7.2 V DC (BP-288), 11.0 V DC (External DC Jack) | |
| Current drain (approximately) | | |
| Tx High | Less than 1.8 A | |
| Rx Max. audio/Stand-by | Less than 500 mA/90 mA typ. (GPS, Bluetooth®, Light: OFF) | |
| Antenna impedance | 50 Ω | |
| Operating temperature range | -20°C to +55°C | |
| Dimensions (W×H×D) (Projections not included) | 58.9 × 148.4 × 31.8 mm | |
| Weight (approximately) | 384 g (with antenna and BP-288) | |
| TRANSMITTER | | |
| Output power (at 7.2 V DC) | 6.0/1.8 W typ. (PEP/carrier) | |
| Audio harmonic distortion | Less than 10% (at 85% modulation) | |
| Harmonics Spurious emissions | Less than -36 dBm (except operating frequency ±1 MHz) | |
| Frequency stability | ±1 ppm | |
| RECEIVER | | |
| Intermediate frequencies | 46.35 MHz/450 kHz (1st/2nd) | |
| Sensitivity | | |
| NAV (6 dB S/N) | Less than 0 dBμ | |
| COM (12 dB SINAD) | Less than 0 dBμ (with CCITT filter) | |
| Squelch sensitivity (at threshold) | Less than 0 dBμ | |
| Adjacent channel rejection | More than 60 dB | |
| Spurious response | More than 70 dB | |
| Ham and noise | More than 40 dB (at 90% modulation) | |
| Audio output power | | |
| External speaker | 530 mW typical (AM 8 Ω/60% Mod at 10% distortion) | |
| Internal speaker | 1200 mW typical (AM 8 Ω/60% Mod at 10% distortion) | |
| Ext. speaker connector | 3-conductor 3.5 (d) mm (1/8") 8 Ω | |

Measurements made in accordance with EN300 676-2.
All stated specifications are subject to change without notice or obligation.

Applicable U.S. Military Specifications

| Standard | MIL 810G | |
|-------------------|----------|-----------|
| | 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 |
| Rain Blowing/Drip | 506.5 | I, III |
| Humidity | 507.5 | II |
| Salt Fog | 509.5 | - |
| Dust Blowing | 510.5 | I |
| Immersion | 512.5 | I |
| Vibration | 514.6 | I |
| Shock | 516.6 | I, IV |

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

| Ingress Protection Standard | |
|-----------------------------|--|
| Dust and Water | IP57 (Dust-protection and Waterproof* protection) * One meter depth for 30 minutes. |

- Supplied accessories:** (* May differ, depending on the radio version.)
- BP-288 battery pack
 - BP-289 battery case
 - BC-224 rapid charger
 - BC-123SE/SV AC adapter for BC-224*
 - OPC-2379 headset adapter
 - FA-B02AR antenna
 - MB-133 belt clip
 - Hand strap

OPTIONS

| | | |
|---|---|--|
| <p>BATTERY PACK AND CASE</p> <p>BP-288 Li-ion 7.2 V 2200 mAh (min.) 2350 mAh (typ.). Waterproof</p> <p>BP-289 Battery case 6 × LR6 (AA). Water resistance Waterproof</p> | <p>RAPID CHARGER</p> <p>BC-123S* Charges the BP-288 in approximately 3 hours.</p> <p>BC-224 Charges the BP-288 in approximately 3 hours.</p> | <p>CIGARETTE LIGHTER CABLE</p> <p>CP-20 To operate from a 12 or 24 V DC power source socket.</p> |
| <p>SPEAKER MICROPHONE</p> <p>HM-231 Waterproof</p> | <p>BELT CLIP</p> <p>MB-133</p> | <p>LEATHER BELT HANGERS</p> <p>MB-96N Swivel type.</p> <p>MB-96F Fixed type.</p> <p>MB-96FL Long type.</p> |
| <p>Bluetooth® HEADSET</p> <p>VS-3 The side tone function when connected to radio.</p> | <p>HEADSET ADAPTER CABLE</p> <p>OPC-2379</p> | <p>PROGRAMMING CABLE</p> <p>OPC-478UD USB type. OPC-2144 plug adapter cable required.</p> |

ANTENNA
• **FA-B02AR** : Same as supplied.

APPLICATION/SOFTWARE
• **RS-AERO11*** : iOS™ application software for flight planning.
• **CS-A25** : Programming software for Windows® PC.

* The application for iOS™ can be download free from App Store.

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*Bluetooth® connection has not been tested for all Bluetooth® compatible devices with this product. This does not guarantee that all devices will work with this product.

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VHF AIR BAND TRANSCEIVERS

Icom's Next Generation Air Band Radio
with Built-in GPS and Bluetooth®

IC-A25NE
(NAV & COM channels)
Day mode screen

IC-A25CE
(COM channels)
Night mode screen

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.

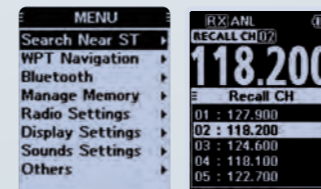
After pushing the [F] key, you can directly access a function printed on the keypad in orange.

* 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.



Menu screen Night mode screen

▶ “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

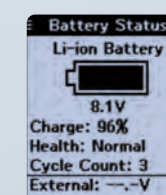
▶ Built-in Bluetooth® for Hands-Free Operation (for IC-A25NE)

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.



Detailed battery information screen

* Typical operation with Tx : Rx (Max.audio): standby=5:5:90. (Bluetooth® OFF, GPS ON)

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.

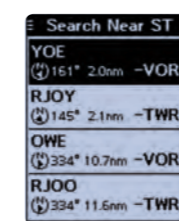
The **ABSS (Automatic Bearing Set System)** function enables you to set the current course as a new course in two simple steps.



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 iOS™ App

Using the RS-AERO11 (iOS) application, you can make flight plans on an 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-AERO11 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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