ICOM

BASIC MANUAL

VHF AIR BAND TRANSCEIVERS

IC-A25N
IC-A25C
IC-A25NE
IC-A25CE

Icom Inc.

Thank you for choosing this Icom product.
This product is designed and built with Icom's state of the art technology and craftsmanship. With proper care, this product should provide you with years of trouble-free operation.

IMPORTANT

READ ALL INSTRUCTIONS carefully and completely before using the transceiver.
SAVE THIS INSTRUCTION MANUAL — This instruction manual contains important operating instructions for the IC-A25N, IC-A25C, IC-A25NE, and IC-A25CE.
For Advanced features and instructions, see the FULL MANUAL on the Icom website for details.

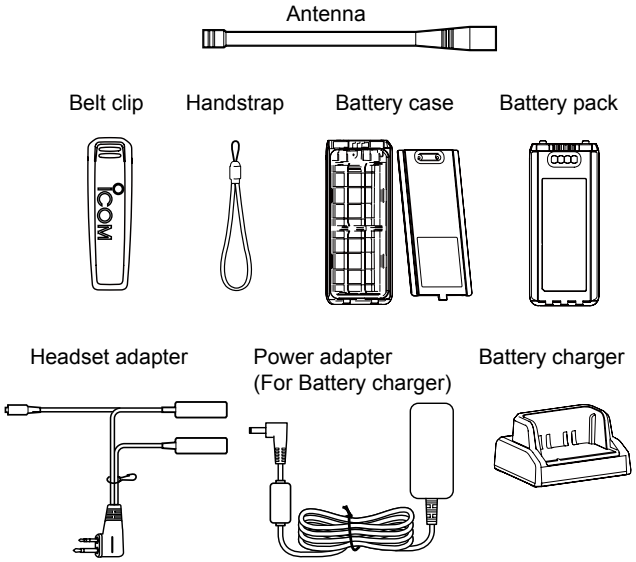
http://www.icom.co.jp/world/support/download/manual

For IC-A25N and IC-A25NE's Basic Navigation features and instructions, see the NAVIGATION GUIDE for details.

EXPLICIT DEFINITIONS

WORD	DEFINITION
⚠DANGER!	Personal death, serious injury or an explosion may occur.
⚠WARNING!	Personal injury, fire hazard or electric shock may occur.
CAUTION	Equipment damage may occur.
NOTE	If disregarded, inconvenience only. No risk of personal injury, fire or electric shock.

SUPPLIED ACCESSORIES



NOTE:
- Some accessories are not supplied, or the shape is different, depending on the transceiver version.
- Confirm both battery sliding locks are locked in place, when attaching the battery pack or the battery case to the transceiver. Both sliding locks make a 'click' sound when locked.
- Before using the transceiver for the first time, the battery pack must be fully charged for optimum life and operation. See Section 2 for battery charging.

PRECAUTIONS

⚠ **DANGER! NEVER** short the terminals of the battery pack. Shorting may occur if the terminals touch metal objects such as a key, so be careful when placing the battery packs (or the transceiver) in bags, and so on. Carry them so that shorting cannot occur with metal objects. Shorting may damage not only the battery pack, but also the transceiver.

⚠ **DANGER! NEVER** use or charge Icom battery packs with non-Icom transceivers or non-Icom chargers. Only Icom battery packs are tested and approved for use with Icom transceivers or charged with Icom chargers. Using third-party or counterfeit battery packs or chargers may cause smoke, fire, or cause the battery to burst.

⚠ **DANGER! NEVER** operate the transceiver near unshielded electrical blasting caps or in an explosive atmosphere.

⚠ **WARNING! NEVER** hold the transceiver so that the antenna is very close to, or touching exposed parts of the body, especially the face or eyes, while transmitting. The transceiver will perform best if the microphone is 5 to 10 cm (2 to 4 inches) away from the lips and the transceiver is vertical.

⚠ **WARNING! NEVER** operate the transceiver with a headset or other audio accessories at high volume levels. The continuous high volume operation may cause a ringing in your ears. If you experience the ringing, reduce the volume level or discontinue use.

CAUTION: DO NOT use harsh solvents such as Benzine or alcohol when cleaning. This could damage the equipment surfaces. If the surface becomes dusty or dirty, wipe it clean with a soft, dry cloth.

CAUTION: DO NOT place or leave the transceiver in excessively dusty environments. This could damage the transceiver.

CAUTION: DO NOT expose the transceiver to heavy rain, and never immerse it in water. The transceiver meets IP57 requirements for dust-protection and splash resistance. However, once the transceiver has been dropped, dust protection and splash resistance cannot be guaranteed due to the fact that the transceiver may be cracked, or the waterproof seal damaged, and so on.

DO NOT place or leave the transceiver in direct sunlight or in areas outside of the specified temperature range:
IC-A25N/IC-A25C: –10°C (–14˚F) ~ +60°C (+140˚F)
IC-A25NE/IC-A25CE: –20°C ~ +55°C

Keep the transceiver in a secure place to prevent use by unauthorized persons.

This transceiver is NOT approved for use by the general population in an uncontrolled environment. This transceiver is restricted to occupational use, work related operations only where the transceiver operator must have the knowledge to control.

CAUTION: In Canada, use of 8.33 kHz Channel Spacing of this radio is strictly prohibited and shall not be used.

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PRÉCAUTIONS (pour le Canada)

⚠ **AVERTISSEMENT! NE JAMAIS** court-circuiter les bornes du bloc-batterie. Un court-circuit peut se produire si les bornes touchent des objets métalliques, tels que des clés, faites donc attention lorsque vous rangez des blocs-batteries (ou l'émetteur-récepteur) dans des sacs, etc. Transportez-les de telle sorte que des courts-circuits ne peuvent se produire avec des objets métalliques.Car cela peut endommager le bloc-batterie ainsi que l'émetteur-récepteur.

Utilisez et chargez uniquement les packs batterie Icom spécifiés avec les terminaux Icom ou les chargeurs Icom. Seuls les packs batterie Icom sont testés et homologués pour une utilisation avec les terminaux Icom ou être chargés avec les chargeurs Icom. L'utilisation de packs batterie ou de chargeurs tiers ou de contrefaçon peut être à l'origine de fumées, d'incendie ou faire éclater la batterie.

⚠ **AVERTISSEMENT! NE JAMAIS** tenir le terminal de communication avec l'antenne placée à proximité immédiate ou en contact avec des parties du corps exposées, en particulier le visage ou les yeux, lors des transmissions.Les performances de la radio sont optimales quand le microphone est tenu entre 5 et 10 cm de la bouche de l'utilisateur et quand l'appareil est vertical.

⚠ **AVERTISSEMENT! NE JAMAIS** utiliser l'émetteur-récepteur avec un casque ou tout autre accessoire audio à un niveau sonore élevé. L'utilisation continue à un niveau sonore élevé peut provoquer un bourdonnement dans vos oreilles.

NE PAS utiliser l'émetteur-récepteur à proximité de détonateurs électriques non blindés ou dans une atmosphère explosive.

NE PAS utiliser de dissolvants agressifs tels que du Benzène ou de l'alcool lors du nettoyage, car ils endommageraient les surfaces de l'émetteur-récepteur. Si l'émetteur-récepteur est poussiéreux ou sale, nettoyez-le avec un tissu doux et sec.

NE PAS placer l'émetteur-récepteur dans des environnements excessivement poussiéreux. Cela pourrait endommager l'émetteur-récepteur.

CONSERVEZ l'émetteur-récepteur à l'abri des fortes pluies et ne le plongez jamais dans l'eau. Cet émetteur-récepteur répond aux exigences de la norme IP57 en matière de protection contre la poussière et de résistance aux éclaboussures. Cependant, en cas de chute de l'émetteur-récepteur, la protection contre la poussière et la résistance aux éclaboussures ne peuvent plus être garanties, car le boitier risque d'être fissuré ou le joint d'étanchéité endommagé, etc.

NE PAS placer ou laisser l'émetteur-récepteur en plein soleil ou dans un environnement soumis à des températures inférieures à –10 °C (–14˚F) ou supérieures à +60 °C (+140˚F).

Placez l'émetteur-récepteur dans un lien sûr pour éviter toute utilisation par des personnes non autorisées.

MISE EN GARDE: Utilisation de 8,33 kHz Espacement des canaux de cette radio est strictement interdite et ne doit pas être utilisé au Canada.

RECOMMENDATION

CLEAN THE TRANSCEIVER THOROUGHLY IN A BOWL OF FRESH WATER after exposure to saltwater, and dry it before operating. Otherwise, the transceiver's keys, switches, and controllers may become unusable, due to salt crystallization, and/or the charging terminals of the battery pack may corrode.

NOTE: If the transceiver's waterproof protection appears defective, carefully clean it with a soft, damp (fresh water) cloth, then dry it before operating. The transceiver may lose its waterproof protection if the case, jack cap, or connector cover is cracked or broken, or the transceiver has been dropped. Contact your Icom distributor or your dealer for advice.

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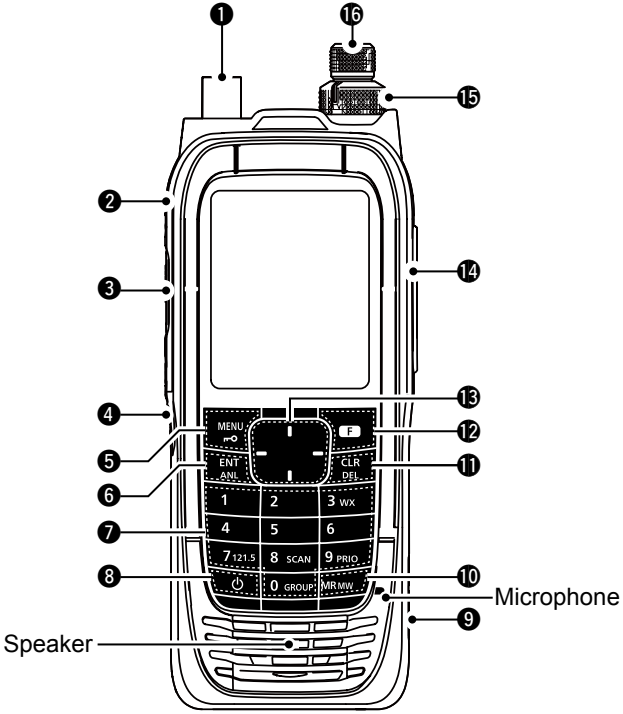
1 PANEL DESCRIPTION

■ Front, top and side panels

(IC-A25C/IC-A25CE)*



❶ **ANTENNA CONNECTOR**
Connect the supplied antenna.

❷ **BACKLIGHT KEY [LIGHT]**
Push to turn the backlight ON or OFF.

❸ **PTT SWITCH [PTT]**
Hold down to transmit, release to receive.

❹ **SQUELCH ADJUSTMENT KEYS [SQL▲]/[SQL▼]**
Push to adjust the squelch level.

❺ **MENU/LOCK KEY [MENU]/[⊶]**
- Push to enter or exit the Menu screen.
- Push [F], and then push this key to lock the keypad.

❻ **ENTER/AUTOMATIC NOISE LIMITER KEY [ENT]/[ANL]**
- Push to set the entered data, selected item, and so on.
- Push [F], and then push this key to turn the Automatic Noise Limiter (ANL) function ON or OFF.

❼ **TEN KEY***
- Push the keys to set the frequency, select a Memory channel, and so on.
- Push [F], and then push another key to use the secondary functions listed below.

WEATHER CHANNEL KEY [3]/[WX]
(For only the IC-A25N and IC-A25C)
Push to enter the Weather Channel Selection mode.
EMERGENCY KEY [7]/[121.5]
Push to select the emergency frequency.
SCAN KEY [8]/[SCAN]
Push to start a scan.
ⓘ Push [CLR] to stop a scan.

*There are some keys and functions for only the IC-A25N and IC-A25NE. Refer to the NAVIGATION GUIDE for details.

PRIORITY CHANNEL KEY [9]/[PRIO]
Push to turn the Priority Watch function ON or OFF.
GROUP KEY [0]/[GROUP]
Push to display the “Group List” screen, to change the group in the memory mode.

❽ **POWER KEY [⏻]**
Hold down for 1 second to turn the transceiver ON or OFF.

❾ **DC POWER JACK**
- Connect the optional power adapter to charge the battery pack.
- Connect the optional cigarette lighter cable to use the transceiver with an external power source.

❿ **MEMORY/MEMORY WRITE KEY [MR]/[MW]**
- Push to enter the Memory Channel Selection mode.
- Push [F], and then push this key to display the “Memory Write” screen, to write the set frequency to memory.

⓫ **CLEAR/DELETE KEY [CLR]/[DEL]**
- Push to cancel the entered data, selected item, exit the current mode, or return to the previous screen.
- While scanning, push to stop the scan.
- Push [F], and then push this key to delete the selected Memory channel or Recall channel.

⓬ **FUNCTION KEY [F]**
Push this key, and then push another key within 3 seconds to use its secondary function.

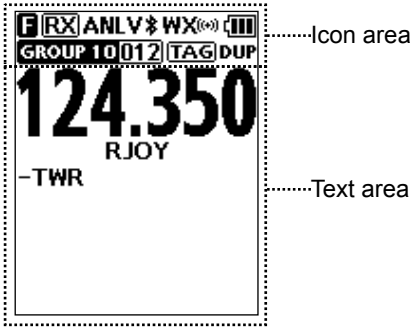
⓭ **DIRECTIONAL KEY [UP]/[DOWN]/[LEFT]/[RIGHT]**
- Push to select a Recall channel.
- Push to select a menu item, setting, and so on.

⓮ **HEADSET JACK**
Connects a third party headset through the supplied Headset adapter.

⓯ **VOLUME CONTROL KNOB [VOL]**
Rotate to adjust the audio output level.

⓰ **TUNING DIAL [DIAL]**
Rotate to set the frequency, select a Memory channel, a menu item, and so on.

■ Function display



◇ Icon area

Indicators

BATTERY INDICATOR
Displays the battery status.

Battery status	Full	Mid	Charging required	Battery exhausted	Charging
Indication (Li-ion battery pack)					
Indication (Alkaline batteries)					

GROUP/MEMORY INDICATOR GROUP 10 012
Displays the selected group and channel in the Memory mode.

Icons

FUNCTION ICON F
Displayed for 3 seconds when you push [F], to use secondary functions assigned to a key.

RX/TX ICON RX TX
Displayed while receiving or transmitting.

AUTOMATIC NOISE LIMITER ICON ANL
Displayed when the Automatic Noise Limiter function is ON.

VOX ICON V
Displayed when the VOX function is ON.

Bluetooth® ICON
(For only the IC-A25N and IC-A25NE)
Displayed when a Bluetooth device is connected.

WX ICON WX (For only the IC-A25N and IC-A25C)
- "WX" is displayed when the transceiver is in the Weather Channel Selection mode.
- Displayed when the Weather Alert function is ON.
- Blinks when a weather alert is received.

TAG ICON TAG
Displayed when a tagged channel is selected.

DUPLEX ICON DUP
(For only the IC-A25N and IC-A25NE)
Displayed when an NAV band frequency is selected with duplex setting* is ON, or duplex channel is selected.
*([MENU] > Radio Settings > **Duplex Set**)

◇ Text area

- Displays the selected frequency, channel type, channel name, priority channel, and so on.

■ Battery caution

Misuse of Li-ion batteries may result in the following hazards: smoke, fire, or the battery may rupture. Misuse can also cause damage to the battery or degradation of battery performance.

⚠ **DANGER! NEVER** solder the battery terminals, or **NEVER** modify the battery pack. This may cause heat generation, and the battery may burst, emit smoke or catch fire.

⚠ **DANGER! NEVER** place or leave battery packs in areas with temperatures above 60°C (140°F). High temperature buildup in the battery cells, such as could occur near fires or stoves, inside a sun-heated vehicle, or in direct sunlight for long periods of time may cause the battery cells to rupture or catch fire. Excessive temperatures may also degrade the battery pack's performance or shorten the battery cell's life.

⚠ **DANGER! NEVER** strike or otherwise impact the battery pack. Do not use the battery pack if it has been severely impacted or dropped, or if the pack has been subjected to heavy pressure. Battery pack damage may not be visible on the outside of the case. Even if the surface of the battery does not show cracks or any other damage, the cells inside the battery may rupture or catch fire.

⚠ **DANGER! NEVER** expose the battery pack to rain, snow, seawater, or any other liquids. Do not charge or use a wet pack. If the pack gets wet, be sure to wipe it dry before using.

⚠ **DANGER! NEVER** place or leave battery packs near fire. Fire or heat may cause them to rupture or explode. Dispose of used battery packs in accordance with local regulations.

⚠ **DANGER! NEVER** let fluid from inside the battery get in your eyes. This can cause blindness. Rinse your eyes with clean water, without rubbing them, and immediately go to a doctor.

⚠ **WARNING! NEVER** put the battery pack in a microwave oven, high-pressure container, or in an induction heating cooker. This could cause a fire, overheating, or cause the battery cells to rupture.

⚠ **WARNING! NEVER** use the battery pack if it emits an abnormal odor, heats up, or is discolored or deformed. If any of these conditions occur, contact your Icom dealer or distributor.

⚠ **WARNING! NEVER** let fluid from inside the battery cells come in contact with your body. If it does, immediately wash with clean water.

CAUTION: DO NOT use the battery pack out of the specified temperature range for the transceiver* and the battery itself (–20°C ~ +60°C (–4°F ~ +140°F)). Using the battery out of its specified temperature range will reduce its performance and battery cell's life. Please note that the specified temperature range of the battery may exceed that of the transceiver. In such cases, the transceiver may not work properly because it is out of its operating temperature range.

* IC-A25N/IC-A25C: –10°C (–14˚F) ~ +60°C (+140˚F)
IC-A25NE/IC-A25CE:–20°C ~ +55°C

■ Battery caution (continued)

CAUTION: Shorter battery life could occur if the battery is left fully charged, completely discharged, or in an excessive temperature environment (above 60°C (140°F)) for an extended period of time. If the battery pack must be left unused for a long time, it must be detached from the transceiver after discharging. You may use the battery pack until the remaining capacity is about half, then keep it safely in a cool and dry place at the following temperature range:
–20°C ~ +50°C (–4°F ~ +122°F) (within a month)
–20°C ~ +40°C (–4°F ~ +104°F) (within three months)
–20°C ~ +20°C (–4°F ~ +68°F) (within a year)

BE SURE to replace the battery pack with a new one approximately five years after manufacturing, even if it still holds a charge. The inside battery material will become weak after a period of time, even with little use. The estimated number of times you can charge the battery is between 300 and 500. Even when the battery appears to be fully charged, the operating time of the transceiver may become short when:

- Approximately 5 years have passed since the battery was manufactured.
- The battery has been repeatedly charged.

WARNING: Stop using the battery pack and replace it when the battery's health is critically low.*
*A Warning dialog is displayed.

CAUTION: It is better to replace the battery pack when the battery's health has declined.*
*A Caution dialog is displayed.

■ Charging caution

⚠ **DANGER! NEVER** charge the battery pack in areas with extremely high temperatures, such as near fires or stoves, inside a sun-heated vehicle, or in direct sunlight. In such environments, the safety/protection circuit in the battery will activate, causing the battery to stop charging.

⚠ **WARNING! NEVER** charge the transceiver during a lightning storm. It may result in an electric shock, cause a fire or damage the transceiver. Always disconnect the power adapter before a storm.

⚠ **WARNING! NEVER** charge or leave the battery in the battery charger beyond the specified time for charging. If the battery is not completely charged by the specified time, stop charging and remove the battery from the battery charger. Continuing to charge the battery beyond the specified time limit may cause a fire, overheating, or the battery may rupture.

⚠ **WARNING! NEVER** insert the transceiver (battery attached to the transceiver) into the charger if it is wet or soiled. This could corrode the battery charger terminals or damage the charger. The charger is not waterproof.

CAUTION: NEVER charge the battery outside of the specified temperature range: BC-224 (15˚C ~ 40˚C (59˚F ~ 104˚F)). Otherwise, the charging time will be longer, but the battery will not reach a full charge. While charging, at a point after the temperature goes out of the specified range, the charging will automatically stop.

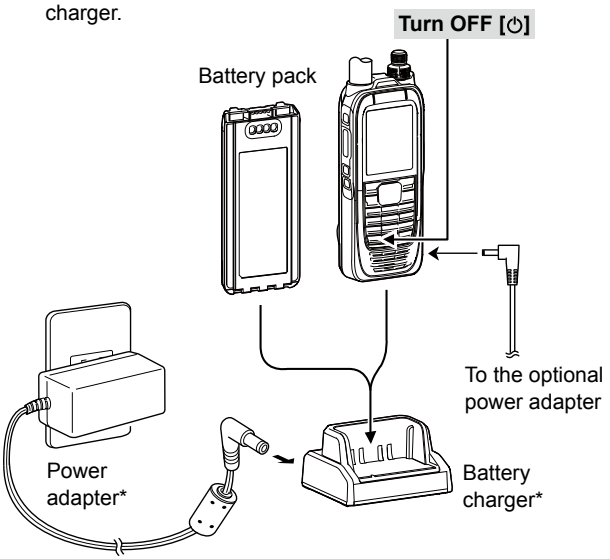
■ Battery charger

You can charge the supplied battery pack using the supplied battery changer and power adapter.

● Charging time: approximately 3 hours.

ⓘ You can also use the optional power adapter, instead of the supplied battery charger and power adapter.

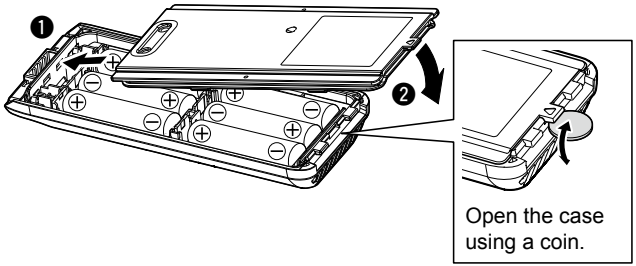
* Charging time may be longer than using the supplied battery charger.



* May not be supplied, or the shape may be different, depending on the transceiver version.

■ Battery case

When using the supplied battery case*, install 6 × AA (LR6) size Alkaline batteries, as shown below.



CAUTION:

- **NEVER** incinerate used battery cells since internal battery gas may cause them to rupture.
- **NEVER** expose a detached battery case to water. If the battery case gets wet, be sure to wipe it dry before using it.
- **NEVER** use batteries whose insulated cover is damaged.

NOTE:

- When installing the batteries, make sure they are all the same brand, type and capacity. Also, do not mix new and old batteries together.
- Keep the battery terminals clean. It's a good idea to occasionally clean them.

3 MENU SCREEN

You can use the Menu screen to set infrequently changed values or function settings.

■ Construction

The Menu screen is constructed in a tree structure.
You can go to the next tree level with [RIGHT] or [ENT], go back a level with [LEFT] or [CLR].
To select an item, rotate [DIAL] or push [UP] or [DOWN].

See the FULL MANUAL for each menu item's details. You can download the FULL MANUAL from the Icom website.

ⓘ The menu items contained in the transceiver may be different, depending on the transceiver's version or presettings. Ask your dealer for details.

http://www.icom.co.jp/world/support/download/manual

Search Near ST*1	
WPT Navigation*1	
<WPT NAV OFF>*1*3	
<WPT NAV Disp>*1*3	
Direct-To WPT*1	
	Select Memory*1*4
	Flight Plan*1*5
	Near Waypoint*1*6
	Manual Entry*1
	History*1
FPL Navigate*1*5	
	Select FPL*1*5
	<Reverse Route>*1*3*5
Add Waypoint*1	
Manage FPL*1*	
	Add FPL*1
	Edit FPL*1
	Delete FPL*1
GPS Status*1	
GPS Info*1	
Settings*1	
	GPS Set*1
	Navigation Style*1
	Auto Change*1

Bluetooth*1	
Pairing/Connect*1	
	Search Device*1
<Wait for Pairing>*1	
Settings*1	
	Bluetooth Set*1
	Auto Connect*1
	Headset Settings*1
	Device Info*1
	<Initialize Device>*1
Manage Memory	
Edit Memory	
Delete Memory	
User Type	
Radio Settings	
Time Out Timer	
Weather Alert*2	
WX CH TAG Set*2	
Duplex Set*1	
Duplex TX Freq*1	
VOX Set	
VOX Delay	
VOX Level	
Priority CH	

Display Settings	
Backlight	
Contrast	
Night Mode	
Units*1	
	Distance/Speed*1
	Bearing*1
Sounds Settings	
Beep	
Side Tone	
Others	
Battery Status	
Version	

*1 For only the IC-A25N and IC-A25NE. *2 For only the IC-A25N and IC-A25C. *3 Not displayed, when the Waypoint Navigation function is not used.
*4 Not displayed, if no Waypoints are saved. *5 Not displayed, if no Flight Plans are saved. *6 Not displayed, if no GPS signal is received.

■ Receiving and transmitting

◇ Setting the frequency

ⓘ If the transceiver is in the Memory mode, push [CLR] to exit the Memory mode.

● Use the keypad to set the frequency.

Using dial:

1. Push [F] and then rotate [DIAL] to set the MHz digit.
   • "F" is displayed while setting the MHz digit.
2. Within 3 seconds*, Push [F] again, and then rotate [DIAL] to set the kHz digit.
   • "F" disappears.*
   *"F" automatically disappears in 3 seconds after [F] is pushed, or set the MHz digit.

❍Selecting a Memory channel

1. Push [MR] to enter the Memory mode.
   • The selected group and channel are displayed.
   Example: GROUP 01 001
2. Rotate [DIAL], or use the keypad to select a channel.

TIP: To change the selected group:

1. Push [F], and then push [GROUP] to display the "Group List" screen.
2. Rotate [DIAL], to select a group, and then push [ENT].

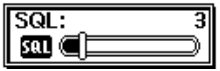
◇ Receiving

When receiving a signal, "RX" is displayed and audio is heard.

ⓘ Rotate volume control knob to adjust the audio output level.

◇ Adjusting the squelch level

● Push [SQL▲] or [SQL▼] to adjust the squelch level until the noise just disappears, when no signal is received.
   • The adjustment screen is displayed while adjusting.



◇ Using the Automatic Noise Limiter (ANL) function

The function reduces noise components in the received signal, such as those caused by engine ignition systems.

● Push [F], and then push [ANL] to turn the function ON or OFF.
   • "ANL" is displayed.

◇ Transmitting

● Hold down [PTT], and then speak at your normal voice level.
   • "TX" is displayed.

■ Selecting the 121.5 MHz emergency frequency

In case of emergency, you can immediately select the 121.5 MHz emergency frequency.

- Push [F], and then push [121.5] to select the emergency frequency.

ⓘ Push [CLR] to return to the previously selected frequency.

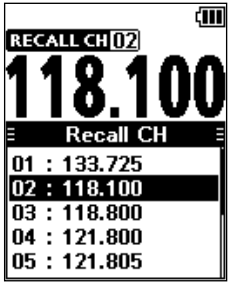
■ Selecting the Recall channels

The transceiver stores the previously selected frequencies in the “Recall CH.” You can easily select them without rotating [DIAL] or accessing memory.

1. Push the Directional key to display the “Recall CH” screen.
2. Select the channel.
   - The selected channel will be set in 3 seconds.

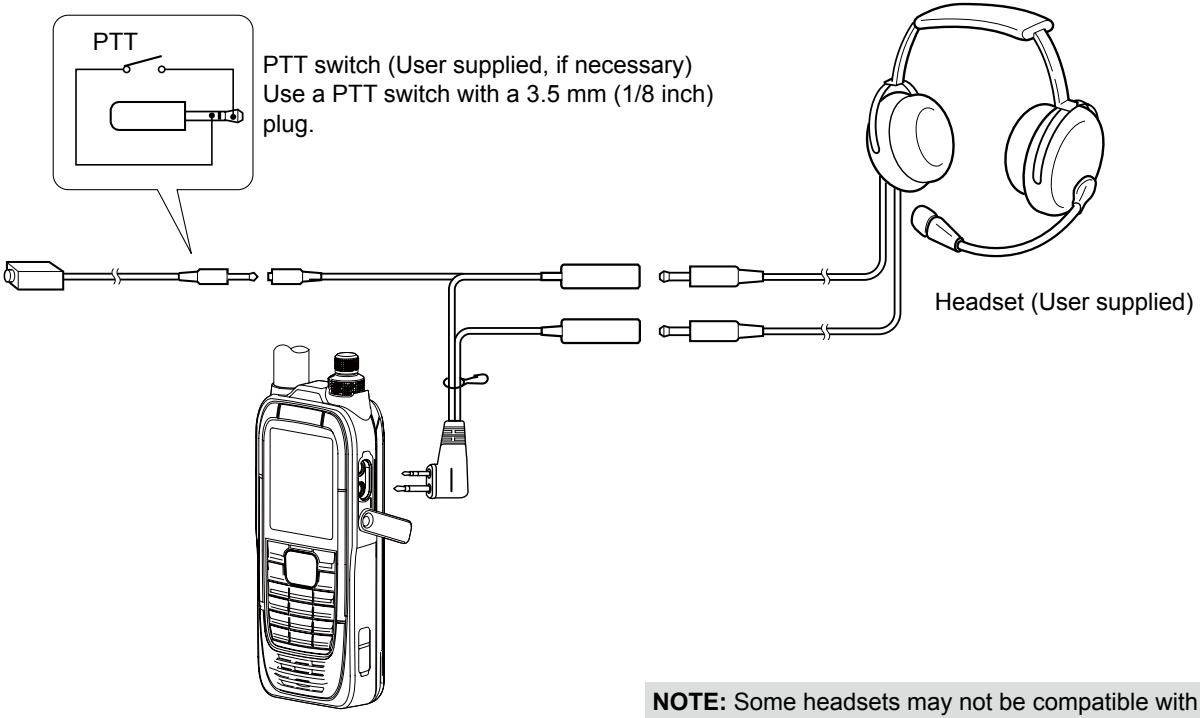
   ⓘ It is not necessary to push [ENT] to select the channel.

   ⓘ Push [CLR] to return to the previously selected frequency.



HEADSET CONNECTION

Connect your headset through the supplied headset adapter. Use the Side Tone function to output your transmitted voice to the headset ([MENU] > Sounds Settings > **Side Tone**).



NOTE: Some headsets may not be compatible with the transceiver, or need a user supplied adapter to work with the supplied headset adapter. Ask your dealer for details.

■ Specifications

All stated specifications are subject to change without notice or obligation.

◇ General

- Frequency range:
  - IC-A25N/IC-A25NE — TX 118.000 ~ 136.99166 MHz; RX 108.000 ~ 136.99166 MHz; WX 161.650 ~ 163.275 MHz*1
  - IC-A25C/IC-A25CE — TX 118.000 ~ 136.99166 MHz; RX 118.000 ~ 136.99166 MHz; WX 161.650 ~ 163.275 MHz*1
- Channel spacing: 25 kHz/8.33 kHz
- Mode:
  - IC-A25N/IC-A25C: 6K00A3E/5K60A3E (FCC/EXP); 6K00A3E (Industry Canada); 16K0G3E (WX)
  - IC-A25NE/IC-A25CE: 6K80A3E/5K00A3E
- Number of memory channels: 300 channels
- Antenna impedance: 50 Ω nominal
- Antenna connector: BNC type
- Power supply requirement: 7.2 V DC standard or 11.0 V DC at the external DC jack
- Current drain:
  - TX: Less than 1.8 A
  - RX: 90 mA typical (at standby); Less than 500 mA (at AF maximum)*2
- Operating temperature range:
  - IC-A25N/IC-A25C: –10˚C ~ +60˚C, 14˚F ~ 140˚F
  - IC-A25NE/IC-A25CE: –20˚C ~ +55˚C
- Dimensions (projections not included): 58.9 (W) × 148.4 (H) × 31.8 (D) mm, 2.3 (W) × 5.8 (H) × 1.3 (D) inches
- Weight (approximately): 384 g, 13.6 oz with antenna and BP-288

◇ Transmitter

- Output power (Typical): 6.0 W (PEP), 1.8 W (CW)
- Modulation limiting (IC-A25N/IC-A25C): 70 ~ 100%
- Modulation depth (IC-A25NE/IC-A25CE): 85%
- Audio harmonic distortion: Less than 10% (at 60% modulation)
- Ham and Noise ratio: More than 35 dB
- Spurious emissions:
  - IC-A25N/IC-A25C: More than 46 dB *3*4
  - IC-A25NE/IC-A25CE
    - 9 kHz ~ 30 MHz: Less than –46 dBm*5
    - 30 MHz ~ 1 GHz: Less than –36 dBm (Harmonics)*5; Less than –46 dBm (Non-harmonics)*5
    - 1 GHz ~ 4 GHz: Less than –30 dBm (Harmonics) *5; Less than –40 dBm (Non-harmonics)*5
- Frequency stability
  - IC-A25N/IC-A25C: ±0.4 kHz
  - IC-A25NE/IC-A25CE: ±1 ppm

◇ Receiver

- Receive system: Double conversion superheterodyne
- Intermediate frequencies: 1st 46.35 MHz, 2nd 450 kHz
- Sensitivity:
  - IC-A25N/IC-A25C
    - VOR/COM: Less than 1 μV (at 6 dB S/N)
    - WX: Less than 0.4 μV (at 12 dB SINAD)
  - IC-A25NE/IC-A25CE: Less than –107 dBm (at 12dB SINAD with CCITT)
- Squelch sensitivity (Threshold)
  - VOR/COM: Less than 1 μV
  - WX: Less than 0.56 μV

• Spurious response rejection ratio:

IC-A25N/IC-A25E	
VOR/COM	More than 60 dB
WX	More than 30 dB
IC-A25NE/IC-A25CE	More than 70 dB

• Audio output power: More than 350 mW at 10% distortion into an 8 Ω load

*1 For only the USA version.
*2 When the GPS, Bluetooth, and Backlight are OFF.
*3 Except operating frequency ±62.5 kHz in 25 kHz channel spacing.
*4 Except operating frequency ±20.825 kHz in 8.33 kHz channel spacing.
*5 Except for operating frequency ±1 MHz.

■ Options

◇ Battery pack/Battery case

• **BP-288** Li-ion BATTERY PACK
Voltage: 7.2 V
Capacity: 2200 mAh (minimum), 2350 mAh (typical)
Battery life: Approximately 10 hours
• **BP-289** BATTERY CASE
Battery case with 6 AA battery cells.

◇ Charger

• **BC-224** RAPID CHARGER + **BC-123S** AC ADAPTER
To rapidly charge the battery pack.
• **BP-167S** AC ADAPTER
To charge the battery pack using the transceiver's DC power jack.

◇ Belt clip and belt hangers

• **MB-133** BELT CLIP
• **MB-96F, MB-96FL, MB-96N** BELT HANGERS

◇ Others

• **FA-B02AR** ANTENNA
• **CP-20** CIGARETTE LIGHTER CABLE
To use the transceiver with an external power source.

NOTE: Remove the cigarette lighter cable when the transceiver is not used.

• **OPC-2379** HEADSET ADAPTER
To connect your headset to the transceiver.
• **HM-231** HAND MICROPHONE
• **RS-AERO1A***
Android™ application software for flight planning.
• **RS-AERO1I***
iOS™ application software for flight planning.
• **VS-3** Bluetooth® HEADSET*
The Bluetooth headset with a [PTT] switch.

About the third party Bluetooth headsets:*
Icom has checked the PTT operation with some 3M Peltor headsets such as the WS Headset XP, WS ProTac XP and WS Alert XP. (Compatibility not guaranteed.)

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

*For only the IC-A25N and IC-A25NE.

Icom is not responsible for the destruction, damage to, or performance of any Icom or non-Icom equipment, if the malfunction is because of:
• Force majeure, including, but not limited to, fires, earthquakes, storms, floods, lightning, other natural disasters, disturbances, riots, war, or radioactive contamination.
• The use of Icom transceivers with any equipment that is not manufactured or approved by Icom.

■ Channel ID list

• Channel spacing: 8.33 kHz

Operating Frequency (MHz)	Channel ID (Displayed Frequency)
118.0000	118.005
118.0083	118.010
118.0167	118.015
118.0250	118.030
118.0333	118.035
118.0417	118.040
118.0500	118.055
118.0583	118.060
118.0667	118.065
118.0750	118.080
118.0833	118.085
118.0917	118.090
118.1000	118.105

• Channel spacing: 25 kHz (Actual frequency is displayed.)

Operating Frequency (MHz)	Channel ID (Displayed Frequency)
118.0000	118.000
118.0250	118.025
118.0500	118.050
118.0750	118.075
118.1000	118.100

These tables show just the display example between 118.0000 MHz and 118.1000 MHz. Not all frequencies in the band are shown.

CAUTION: In Canada, use of 8.33 kHz Channel Spacing of this radio is strictly prohibited and shall not be used.

■ About CE and DOC

Hereby, Icom Inc. declares that the versions of IC-A25NE/IC-A25CE which have the “CE” symbol on the product, comply with the essential requirements of the Radio Equipment Directive, 2014/53/EU, and the restriction of the use of certain hazardous substances in electrical and electronic equipment Directive, 2011/65/EU. The full text of the EU declaration of conformity is available at the following internet address:

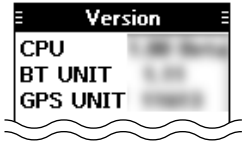
http://www.icom.co.jp/world/support/

■ Disposal

The crossed-out wheeled-bin symbol on your product, literature, or packaging reminds you that in the European Union, all electrical and electronic products, batteries, and accumulators (rechargeable batteries) must be taken to designated collection locations at the end of their working life. Do not dispose of these products as unsorted municipal waste. Dispose of them according to the laws in your area.

■ Firmware version identification

You can identify your transceiver's firmware version in the "Version" screen.
([MENU] > Others > **Version**)



■ FCC information

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

CAUTION: Changes or modifications to this transceiver, not expressly approved by Icom Inc., could void your authority to operate this transceiver under FCC regulations.

■ Information FCC

Cet équipement a été testé et reconnu conforme aux limites fixées pour un appareil numérique de classe A, conformément au point 15 de la réglementation FCC.
Ces limites sont définies de façon à fournir une protection raisonnable contre le brouillage préjudiciable lorsque cet appareil est utilisé dans un environnement commercial. Cet équipement génère, utilise et peut émettre un rayonnement de fréquence radio. S'il n'a pas été installé conformément aux instructions, il peut par ailleurs créer des interférences perturbant les communications radio. L'utilisation de cet appareil dans une zone résidentielle peut provoquer un brouillage préjudiciable, auquel cas l'utilisateur sera tenu de corriger la situation à ses frais.

MISE EN GARDE: Tout changement ou modification, non expressément approuvé par Icom Inc., peut annuler l'autorisation de l'utilisateur à utiliser cet appareil conformément à la réglementation FCC.

■ Safety training information

Your Icom radio generates RF electromagnetic energy while transmitting. This radio is designed for and classified as for “Occupational Use Only.” This means it must be used only during the course of employment by individuals aware of the hazards, and the ways to minimize such hazards. This radio is NOT intended for use by the “General Population” in an uncontrolled environment. This radio has been tested and complies with the FCC and IC RF exposure limits for “Occupational Use Only”. In addition, your Icom radio complies with the following Standards and Guidelines with regard to RF energy and electromagnetic energy levels and evaluation of such levels for exposure to humans:

- FCC KDB Publication 447498 D03, Evaluating Compliance with FCC Guidelines for Human Exposure to Radio Frequency Electromagnetic Fields.
- American National Standards Institute (C95.1-2010), IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz.
- American National Standards Institute (C95.3-2002), IEEE Recommended Practice for the Measurement of Potentially Hazardous Electromagnetic Fields– RF and Microwave.
- The accessories listed on page i are authorized for use with this product. Use of accessories other than those specified may result in RF exposure levels exceeding the FCC requirements for wireless RF exposure.
- Health Canada Safety Code 6 - Limits of Human Exposure to Electromagnetic Energy in the Frequency Range from 3 kHz to 300 GHz.

To ensure that your expose to RF electromagnetic energy is within the FCC allowable limits for occupational use, always adhere to the following guidelines:

- **DO NOT** operate the radio without a proper antenna attached, as this may damage the radio and may also cause you to exceed FCC RF exposure limits. A proper antenna is the antenna supplied with this radio by the manufacturer or an antenna specifically authorized by the manufacturer for use with this radio.
- **DO NOT** transmit for more than 50% of the total radio use time (“50% duty cycle”). Transmitting more than 50% of the time can cause FCC RF exposure compliance requirements to be exceeded. The radio is transmitting when “TX” is displayed on the function display. You can cause the radio to transmit by pushing the [PTT] switch.
- **ALWAYS keep** the antenna at least 2.5 cm (1 inch) away from the body when transmitting and only use the Icom belt-clips which are listed on page 12 when attaching the radio to your belt, or other place, to ensure FCC and IC RF exposure compliance requirements are not exceeded.

The information listed above provides the user with the information needed to make him or her aware of RF exposure, and what to do to assure that this radio operates within the FCC RF exposure limits of this radio.

Electromagnetic Interference/Compatibility

During transmissions, your Icom radio generates RF energy that can possibly cause interference with other devices or systems. To avoid such interference, turn off the radio in areas where signs are posted to do so. DO NOT operate the transmitter in areas that are sensitive to electromagnetic radiation such as hospitals and blasting sites.

Occupational/Controlled Use

The radio transmitter is used in situations in which persons are exposed as consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure.

■ Infomation en matiére de sécurité

Votre radio Icom produit une énergie électromagnétique de radiofréquences (RF), en mode de transmission. Cette radio est conçue pour un «usage professionnel seulement» et classée comme tel, ce qui signifie qu'elle doit être utilisée uniquement dans le cadre d'un travail par des personnes conscientes des dangers et des mesures visant à minimiser ces dangers. Elle N'EST PAS conçue pour une «utilisation grand public », dans un environnement non contrôlé. Cet appareil a été évalué et jugé conforme, aux limites d'exposition aux RF de la FCC et d'IC, pour une «utilisation grand public». En outre, votre radio Icom satisfait les normes et directives qui suivent en matière de niveaux d'énergie et d'énergie électromagnétique de RF et d'évaluation de tels niveaux en ce qui concerne l'exposition humaine:

- Publication 447498 D03 de la FCC KDB, «Evaluating Compliance with FCC Guidelines for Human Exposure to Radio Frequency Electromagnetic Fields».
- Norme de l'American National Standards Institute (ANSI): IEEE C95.1-2010 sur les niveaux de sécurité compatibles avec l'exposition humaine aux champs électromagnétiques de radiofréquences (3 kHz à 300 GHz).
- Norme de l'ANSI: IEEE C95.3-2002 sur la méthode d'évaluation recommandée du champ magnétique potentiellement dangereux des radiofréquences et des micro-ondes.
- Les accessoires illustrés dans "Options" de la feuille d'instructions sont approuvés pour une utilisation avec ce produit. L'utilisation d'accessoires autres que ceux précisés peut entraîner des niveaux d'exposition aux RF supérieures aux limites établies par la FCC et d'IC en matière d'exposition aux RF sans fil.
- Le Code de sécurité 6 de Santé Canada - Les limites d'exposition humaine à l'énergie électromagnétique dans la gamme de fréquences de 3 kHz à 300 GHz.

Afin de vous assurer que votre exposition à une énergie électromagnétique de RF se situe dans les limites permises par la FCC pour une utilisation grand public, veuillez en tout temps respecter les directives suivantes :

- **NE PAS** faire fonctionner la radio sans qu'une antenne appropriée y soit fixée, car ceci risque d'endommager la radio et causer une exposition supérieure aux limites établies par la FCC. L'antenne appropriée est celle qui est fournie avec cette radio par le fabricant ou une antenne spécialement autorisée par le fabricant pour être utilisée avec cette radio.
- **NE PAS** émettre pendant plus de 50% du temps total d'utilisation de l'appareil («50% du facteur d'utilisation»). Émettre pendant plus de 50% du temps total d'utilisation peut causer une exposition aux RF supérieure aux limites établies par la FCC. La radio est en train d'émettre lorsque le témoin du "TX" s'affiche sur l'écran ACL. La radio émettra si vous appuyez sur le bouton du microphone.
- **TOUJOURS** tenir l'antenne éloignée d'au moins 2,5 cm de votre corps au moment d'émettre et utiliser uniquement l'attache pour ceinture Icom illustrée à la p. 12, lorsque vous attachez la radio à votre ceinture, ou à autre chose, de façon à vous assurer de ne pas provoquer une exposition aux RF supérieure aux limites fixées par la FCC. Pour offrir à vos interlocuteurs la meilleure qualité de transmission possible, tenez l'antenne à au moins 5 cm de votre bouche et légèrement de côté.

Les renseignements ci-dessus fournissent à l'utilisateur toute l'information nécessaire sur l'exposition aux RF et sur ce qu'il faut faire pour assurer que cette radio fonctionne en respectant les limites d'exposition aux RF établies par la FCC.

Interférence électromagnétique et compatibilité

En mode de transmission, votre radio Icom produit de l'énergie de RF qui peut provoquer des interférences avec d'autres appareils ou systèmes. Pour éviter de telles interférences, mettez la radio hors tension dans les secteurs où une signalisation l'exige. **NE PAS** faire fonctionner l'émetteur dans des secteurs sensibles au rayonnement électromagnétique tels que les hôpitaux, les aéronefs et les sites de dynamitage.

Usage professionnel/contrôlé

Ce radio émetteur est utilisé dans des cas où des personnes sont exposées en raison de leur travail, pourvu qu'elles soient conscientes du risque d'expositionet qu'elles puissent exercer un contrôle sur cette exposition.

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Count on us!

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