FOREWORD

Thank you for purchasing the IC-446S PMR (Private Mobile Radio) FM transceiver. This PMR FM transceiver meets the European PMR specification (PMR446). This transceiver is designed for those who require top-grade quality, performance and outstanding reliability under the most demanding conditions.

FEATURES

- **Free of user-license and applications**
- **All 8 PMR channels are available**
- **38 convenient group channels**
- **Water-resistant construction**
- **500 mW (ERP) High output power**

**ATS (Automatic Transponder System)**

This convenient function automatically checks station availability within the operating range, and alerts you via function display indication. (p. 17)

In addition, a manual transponder is also available for “GROUP MODE” operation to check availability of stations in a specified group within the operating range. In this case, the transceiver alerts you via beeps. (p. 14)
WATER-RESISTANT* CONSTRUCTION
Water-resistant* construction is employed. Can be used anywhere, anytime.
*Meets JIS water-protection specification grade 4.

GROUP MODE (BUILT-IN CTCSS: Continuous Tone Coded Squelch System)
CTCSS encoder/decoder are standard, providing quiet stand-by. Audio (voice) signals are output only when a signal with matched CTCSS tone signal is received—very helpful for group communications. In addition, 38 different CTCSS frequencies are available. (p. 11)

2 types of “Ring” function
The “Smart-Ring” function and the “Call-Ring” function are available for smart and simple station calls providing a telephone-style ring when called. 10 different ringing tones are available. (p. 14)

SUPPLIED ACCESSORIES

• Belt clip . . . . . . . . . . . . . . . . . . . . 1 set
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-446S PMR FM transceiver.

CAUTIONS

⚠️ 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 in.) 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.

DO NOT push the PTT when not actually desiring to transmit.

DO NOT modify the transceiver for any reason.

AVOID using or placing the transceiver in direct sunlight or in areas with temperatures below −20°C (−4°F) or above +55°C (+131°F). In an extreme low temperature environment (around −20°C), the capacity of Alkaline or dry cell batteries may exhaust quickly. In such case, we recommend to replace the batteries, when the “Low Battery Indicator” appears during transmission.

The use of non-Icom battery packs/chargers may impair transceiver performance and invalidate the warranty.
# TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>Section</th>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>FOREWORD</td>
<td>i</td>
</tr>
<tr>
<td>FEATURES</td>
<td>i–ii</td>
</tr>
<tr>
<td>SUPPLIED ACCESSORIES</td>
<td>ii</td>
</tr>
<tr>
<td>IMPORTANT</td>
<td>iii</td>
</tr>
<tr>
<td>CAUTIONS</td>
<td>iii</td>
</tr>
<tr>
<td>TABLE OF CONTENTS</td>
<td>iv</td>
</tr>
<tr>
<td>1 PANEL DESCRIPTION</td>
<td>1–3</td>
</tr>
<tr>
<td>■ Switches, controls, keys and connectors</td>
<td>1–2</td>
</tr>
<tr>
<td>■ Function display</td>
<td>3</td>
</tr>
<tr>
<td>2 ACCESSORIES</td>
<td>4</td>
</tr>
<tr>
<td>3 BATTERY PACKS</td>
<td>5–7</td>
</tr>
<tr>
<td>■ Installing batteries in the battery case</td>
<td>5</td>
</tr>
<tr>
<td>■ Battery pack charging</td>
<td>6</td>
</tr>
<tr>
<td>■ Battery pack life</td>
<td>6</td>
</tr>
<tr>
<td>■ Battery pack CAUTION</td>
<td>6</td>
</tr>
<tr>
<td>■ Charging connections</td>
<td>7</td>
</tr>
<tr>
<td>4 BASIC OPERATION</td>
<td>8–9</td>
</tr>
<tr>
<td>■ Power ON</td>
<td>8</td>
</tr>
<tr>
<td>■ Adjusting the volume</td>
<td>8</td>
</tr>
<tr>
<td>■ Selecting the operating channel</td>
<td>9</td>
</tr>
<tr>
<td>5 RECEIVE AND TRANSMIT</td>
<td>10</td>
</tr>
<tr>
<td>6 GROUP MODE (CTCSS)</td>
<td>11–13</td>
</tr>
<tr>
<td>■ Setting the group code</td>
<td>11</td>
</tr>
<tr>
<td>7 RING FUNCTION</td>
<td>14</td>
</tr>
<tr>
<td>■ Smart-Ring</td>
<td>14</td>
</tr>
<tr>
<td>■ Call-Ring</td>
<td>14</td>
</tr>
<tr>
<td>8 OTHER FUNCTIONS</td>
<td>15–19</td>
</tr>
<tr>
<td>■ Initial set mode</td>
<td>15–16</td>
</tr>
<tr>
<td>■ ATS (Automatic transponder system)</td>
<td>17</td>
</tr>
<tr>
<td>■ Low battery indicator</td>
<td>17</td>
</tr>
<tr>
<td>■ LCD backlight</td>
<td>18</td>
</tr>
<tr>
<td>■ Auto power save</td>
<td>18</td>
</tr>
<tr>
<td>■ Resetting the transceiver</td>
<td>18</td>
</tr>
<tr>
<td>■ Optional HM-75A functions</td>
<td>19</td>
</tr>
<tr>
<td>9 SPECIFICATIONS</td>
<td>20</td>
</tr>
<tr>
<td>10 OPTIONS</td>
<td>21</td>
</tr>
<tr>
<td>11 MEMO</td>
<td>22–24</td>
</tr>
<tr>
<td>■ Channel number and group number</td>
<td>22</td>
</tr>
<tr>
<td>12 CE</td>
<td>25–26</td>
</tr>
<tr>
<td>■ DECLARATION OF CONFORMITY</td>
<td>26</td>
</tr>
</tbody>
</table>
1 PANEL DESCRIPTION

- Switches, controls, keys and connectors

[Diagram of a walkie-talkie with labeled parts:
1. ANTENNA
2. [PTT]
3. [UP]
4. [DOWN]
5. SPEAKER
6. MIC
7. [MODE]
8. FUNCTION DISPLAY
9. [POWER]
10. [VOL]
11. SP/MIC JACKS]
1 ANTENNA
   Extend the antenna completely when using the transceiver.
   • The antenna collapses completely into the transceiver body for carrying purposes.
   • The antenna can be adjusted 90 degrees from the regular position when operating the transceiver in a horizontal position.

2 PTT SWITCH [PTT]
   • Push and hold to transmit; release to receive.

3 CHANNEL UP SWITCH [UP]/[\(\uparrow\)]
   • Push to increment the operating channel.
   • Push and hold to increment the operating channel continuously.

4 CHANNEL DOWN SWITCH [DOWN]/[\(\downarrow\)]
   • Push to decrement the operating channel.
   • Push and hold to decrement the operating channel continuously.

5 SPEAKER

6 MICROPHONE [MIC]

7 MODE SWITCH [MODE]
   • Push to toggle between Group mode and Normal mode. (p. 11)
   • Push and hold for 1 sec. to force the squelch open; push and hold for 1 sec. to close it again. (p. 8)

8 POWER SWITCH [POWER]
   • Push to turn the power ON.
   • Push and hold this key to toggle the key lock function ON/OFF. (p. 16)

9 FUNCTION DISPLAY (p. 3)

10 VOLUME CONTROL [VOL]
   Rotate clockwise to increase and counterclockwise to decrease volume.

11 EXTERNAL SPEAKER AND MICROPHONE JACKS
   Connect an optional speaker-microphone or headset, if desired.
1 PANEL DESCRIPTION

**Function display**

1. **TRANSMIT INDICATOR**
   Appears during PTT on.

2. **BUSY INDICATOR**
   Appears while receiving a signal or when the squelch is open.

3. **KEY LOCK INDICATOR**
   Appears during key lock function ON.

4. **AUTO POWER OFF INDICATOR**
   Appears while the auto power off function is ON. (see p. 15)

5. **LOW BATTERY INDICATOR**
   Appears or flashes when battery power has decreased to a specified level.

6. **GROUP NUMBER INDICATION**
   One of 01 to 38 appear while the Group function is turned ON.

7. **CHANNEL NUMBER INDICATOR**
   Indicates operating channel number.

8. **POWER ON INDICATOR**
   Appears while the power is ON.

9. **ANSWER BACK INDICATOR** (see p. 17)
   • Appears when you and your group are in the conversation area.
   • Blinks when you or your group is out of the conversation area.
ACCESSORIES

Accessory attachment

- **Antenna**
  Adjust the antenna position as shown at right.

  Keep the jack cover attached when jacks are not in use to avoid bad contacts.

- **Belt clip**
  Attach the belt clip using the supplied screws. Conveniently attaches to your belt.
3 BATTERY PACKS

Installing batteries in the battery case

Install 3 R6(AA) size alkaline, dry cell batteries or the BP-202 BATTERY PACK as illustrated below.

1. Remove the battery case cover from the transceiver.

2. Install 3 × R6(AA) size dry cell, alkaline batteries or the BP-202.
   • Be sure to observe the correct polarity.

NOTE: Keep battery contacts clean. It's a good idea to clean battery terminals once a week.
Battery pack charging

The optional BP-202 BATTERY PACK includes rechargeable Ni-Cd batteries and can be charged approx. 300 times. Charge the battery pack before first operating the transceiver or when the battery pack becomes exhausted.

If you want to be able to charge the battery pack more than 300 times, the following points should be observed:

1. Avoid overcharging. The charging period should be less than 48 hours.
2. Use the battery until it becomes almost completely exhausted under normal conditions. We recommend battery charging just after transmitting becomes impossible.

Battery pack life

If your battery pack seems to have no capacity even after being fully charged, completely discharge it by leaving the power ON all day. Then, fully charge the battery pack again.

If the battery pack still does not retain a charge (or very little), a new battery pack must be purchased.

Battery pack CAUTION

NEVER short terminals of the battery pack (or charging terminals of the transceiver). Also, current may flow into nearby metal objects, so be careful when placing battery packs (or the transceiver) in handbags, etc. Simply carrying with or placing near metal objects such as necklace, etc. causes shorting. This will damage not only the battery pack but also the transceiver.
3 BATTERY PACKS

Charging connections

◊ Rapid charging with the BC-119L/BC-119+AD-89

1. Insert the optional AD-89 DESKTOP CHARGER ADAPTER into the charging slot of the BC-119.
   • The BC-119L comes preinstalled with the AD-89 CHARGING ADAPTER.

2. Insert the battery pack, either by itself or attached to the transceiver, into the charger.
   (See BC-119/L instructions.)

*NOTE: Put the Ni-Cd battery adapter into the AD-89 rear slot when the BP-202 is attached to the transceiver.
BASIC OPERATION

■ Power ON
- Push [POWER] for 1 sec. to turn the power ON.
  • The power on indicator and operating channel number appear on the display.

■ Adjusting the volume
1. Push and hold [MODE] for 1 sec. to open the squelch.
   • Busy indicator appears on the display while the squelch is open.
2. Adjust the audio to a suitable level using [VOL].
3. Push and hold [MODE] for 1 sec. to close the squelch.

✔ What is squelch?
A squelch circuit allows you to mute undesired noise while receiving no signal and emit audio while receiving signals. This provides quiet standby. The [MODE] key changes the squelch setting. This is useful to listen to weak signals that do not open the squelch.
4 BASIC OPERATION

Selecting the operating channel

Push [UP][▲] or [DOWN][▼] keys several times until the desired operating channel number appears on the display.

- While pushing and holding [UP][▲] or [DOWN][▼] keys, the displayed channel changes continuously until channel number “1” appears. If you want to keep the automatic selection, release the [UP][▲] or [DOWN][▼] keys then push and hold them again.
- When displayed channel stops at channel number “1”, a warning beep is emitted.

NOTE:
- The transceiver has 8 operating frequency channels.
- The selected channel is memorised when you turn off the transceiver.
- The transceiver has an auto power save function to conserve the battery power. The power save function activates automatically when no signal is received for 5 sec.
RECEIVE AND TRANSMIT

1. Push and hold [MODE] 1sec. to open the squelch.
   • Adjust volume to the desired audio level. (See p. 8)
2. Select a desired operating channel.
   When a signal is received:
   • Squelch opens and audio is emitted from the speaker.
   • Further adjustment of [VOL] may be necessary at this point.
   • “BUSY” indicator appears on the display.
3. Push and hold [PTT] to transmit then speak into the microphone.
   • Do not hold the transceiver too close to your mouth or speak too loudly.
   This may distort the signal.
   • The transmit indicator “ ” appears on the display.
4. Release [PTT] to return to receive.

Time-Out Timer (TOT)
The transceiver has time-out timer function. This function prevent continuous, extend transmissions. This timer turns a transmission OFF 3 min. after it starts.
A warning beep sounds 10 sec. before the limit is reached and the time-out timer turns OFF the transmission automatically. The end beep emits to announce the end of the transmission.
GROUP MODE (CTCSS)

Setting the group code

The IC-446S is equipped with 38 group codes. Group mode operation provides communication with silent standby since you will only receive calls from group members using the same group number.

First of all, set the same group code number for all group member’s transceivers.

Turn ON the group mode operation:

1. Push [MODE] to enter set mode.
   - “---” (group mode OFF) appears on the display.
2. Push [UP]/[▲] or [DOWN]/[▼] to select the desired code number.
3. Push [MODE] to set the group code number.

Cancel the group mode operation:

1. Push [MODE] to enter set mode.
   - Code number disappears on the display.
3. Push [MODE] to cancel the group mode.

NOTE: Only stations with the same group channel number can be heard during group mode operation, even when the busy indicator appears on the display.
What is CTCSS (Continuous Tone Coded Squelch System) GROUP MODE?

CTCSS (Continuous Tone Coded Squelch System) GROUP MODE allows communication with silent standby. Only signals containing your group code can open the squelch. This conveniently eliminates unwanted audio and is useful in group activities or security related activities where unwanted output can be a problem. Note that CTCSS group mode is not private—anyone can receive your calls.

The IC-446S is equipped with 38 tone codes for CTCSS GROUP MODE use. Selecting a code applies it to all 8 operating channels. Each push of [PTT] superimposes your group code over your transmit signal; and, only signals containing the same code can open your squelch. To temporarily hear all signals (including noise) push and hold [MODE]. Do not use CTCSS GROUP MODE if you want to be able to hear signals on all channels.
6 GROUP MODE (CTCSS)

CTCSS code table

<table>
<thead>
<tr>
<th>CH</th>
<th>Freq.</th>
<th>CH</th>
<th>Freq.</th>
<th>CH</th>
<th>Freq.</th>
<th>CH</th>
<th>Freq.</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>67.0</td>
<td>11</td>
<td>97.4</td>
<td>21</td>
<td>136.5</td>
<td>31</td>
<td>192.8</td>
</tr>
<tr>
<td>02</td>
<td>71.9</td>
<td>12</td>
<td>100.0</td>
<td>22</td>
<td>141.3</td>
<td>32</td>
<td>203.5</td>
</tr>
<tr>
<td>03</td>
<td>74.4</td>
<td>13</td>
<td>103.5</td>
<td>23</td>
<td>146.2</td>
<td>33</td>
<td>210.7</td>
</tr>
<tr>
<td>04</td>
<td>77.0</td>
<td>14</td>
<td>107.2</td>
<td>24</td>
<td>151.4</td>
<td>34</td>
<td>218.1</td>
</tr>
<tr>
<td>05</td>
<td>79.7</td>
<td>15</td>
<td>110.9</td>
<td>25</td>
<td>156.7</td>
<td>35</td>
<td>225.7</td>
</tr>
<tr>
<td>06</td>
<td>82.5</td>
<td>16</td>
<td>114.8</td>
<td>26</td>
<td>162.2</td>
<td>36</td>
<td>233.6</td>
</tr>
<tr>
<td>07</td>
<td>85.4</td>
<td>17</td>
<td>118.8</td>
<td>27</td>
<td>167.9</td>
<td>37</td>
<td>241.8</td>
</tr>
<tr>
<td>08</td>
<td>88.5</td>
<td>18</td>
<td>123.0</td>
<td>28</td>
<td>173.8</td>
<td>38</td>
<td>250.3</td>
</tr>
<tr>
<td>09</td>
<td>91.5</td>
<td>19</td>
<td>127.3</td>
<td>29</td>
<td>179.9</td>
<td>---</td>
<td>OFF</td>
</tr>
<tr>
<td>10</td>
<td>94.8</td>
<td>20</td>
<td>131.8</td>
<td>30</td>
<td>186.2</td>
<td>---</td>
<td></td>
</tr>
</tbody>
</table>

(unit: Hz)

✔ Talk Range

The IC-446S is designed to maximize performance and improve transmission range in the field. However, the single most important factor in transmit range (talk power) is your surrounding environment. These radios are "line of sight" radios and as such, transmission range is influenced by the degree to which you can "see" the other communicating party. Large concrete structures and heavy foliage or transmission from inside a building or vehicle will reduce your talk power.

• Optimal range: wide, open areas free of obstructions.
• Medium range: large buildings or trees blocking your line of sight.
• Minimum range: mountainous areas or areas of heavy foliage.
**RING FUNCTION**

**Smart-Ring**

The ring function has an answer back feature. This allows you to confirm whether or not a call has reached the receiving party even if the operator is temporarily away from the transceiver.

1. Set the same group channel number for all of your group transceivers. (See left.)
2. While pushing [PTT], push [UP]/[▲].
   - A beep is emitted and "▲" blinks on the display.
3. Release the [PTT].
   - When a member of your group answers your call, the transceiver emits beep tones for 10 sec. and blinks "▲".
   - When no answer comes back, the transceiver emits short faint beep tones.
4. Push [PTT] to answer and to stop the beeps and flashing.

**NOTE:** This function is available only when the called station has set the same group number and the same operating channels as you.

**Call-Ring**

Sends the ring tones during transmit mode.

- While pushing [PTT], push [DOWN]/[▼] to send a ring tone.
  - The ring tone is emitted while pushing [DOWN]/[▼].
  - The microphone signal is automatically cut while pushing [DOWN]/[▼].
8 OTHER FUNCTIONS

■ Initial set mode

Initial set mode is accessed at power ON and allows you to set seldom changed settings. In this way you can “customize” transceiver operations to suit your preferences and operating style.

◊ Auto power OFF

This function sets the transceiver to automatically turn OFF after 2 hours elapse.

1. While pushing [MODE], push [POWER] ON to toggle the function ON or OFF.
2. “[ ]” appears on the display.
   • “Auto power OFF” function retains its setting after power OFF.

◊ Ring tone type

You can select the ring tone from one of 10 sounds.

1. While pushing [UP]/[▲], push [POWER] ON.
2. Push [UP]/[▲] or [DOWN]/[▼] to select the ring sound.

◊ Beep tones ON/OFF

Confirmation beep tones normally sound when you push a key. These can be turned ON or OFF.

1. While pushing [DOWN]/[▼], push [POWER].
◊ **Lock function**  
This function electronically locks all keys and switches to prevent accidental channel changes and function access.

- Push and hold [POWER] for 2 sec. to turn the lock function ON and OFF.  
  - A “ ” appears on the display.  
  - Only [POWER], [MODE] and [PTT] are functional.  
  - The Ring function is also available. (See p. 14)
8 OTHER FUNCTIONS

■ ATS (Automatic Transponder System)

This allows you to confirm whether or not a call has reached the receiving party even if the operator is temporarily away from the transceiver. No “Ring” tone is emitted with this function.

Push [MODE], while [PTT] is ON to turn the function ON/OFF.

• “ annunciates on the display.

• The transceiver starts to send a searching signal every 60 sec.

• When the transceiver receives an answer back signal, “" stays on the display until the next search transmit.

• If no reply is received, “" blinks until the next search transmit.

NOTE: Above setting is for the calling station only. A called party automatically sends an answer back signal without any presettings. All IC-446S’s operating on the same operating channel will answer back to your call in your communication area.

■ LCD backlight

• Automatically turns ON for 5 sec. when you push any key, except [PTT].

■ Auto power save

• The power save function reduces the current drain to conserve battery power.

- The function automatically turns ON when no operation is performed or no signal is received for 5 sec.
■ Low Battery indicator

- Appears when the battery is nearing exhaustion.
  - A warning beep is emitted while turning the power ON.
- Appears and blinks when battery replacement is necessary.

In an extreme low temperature environment (around –20°C), the capacity of Alkaline or dry cell batteries may exhaust quickly. In such case, we recommend to replace the batteries, when the “Low Battery Indicator” appears during transmission.

■ Resetting the transceiver

Initialize the operating conditions before using the transceiver for the first time, or if the function display shows erroneous information.

- While pushing [DOWN]/[▼] and [MODE], push [POWER] ON to initialize the transceiver.

**CAUTION:** Resetting the transceiver returns all settings to their defaults.
8 OTHER FUNCTIONS

■ Optional HM-75A functions

The optional HM-75A allows you to remotely select operating channels, open the squelch, etc. The switches on the HM-75A function as follows.

**CAUTION:** When connecting the HM-75A to the transceiver, make sure that power to the transceiver is turned OFF, otherwise the transceiver may malfunction.

<table>
<thead>
<tr>
<th>SWITCH</th>
<th>NORMAL</th>
<th>While holding [PTT]</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Smart-Ring</td>
<td>No function</td>
</tr>
<tr>
<td>B</td>
<td>Open squelch</td>
<td>No function</td>
</tr>
<tr>
<td>UP</td>
<td>Change the operating channel number up.</td>
<td>Smart-Ring</td>
</tr>
<tr>
<td>DOWN</td>
<td>Change the operating channel number down.</td>
<td>Call-Ring</td>
</tr>
</tbody>
</table>

PTT switch

Lock switch: Locks all switches except [PTT]

Earphone jack
### SPECIFICATIONS

#### GENERAL
- **Frequency coverage**: 446.00625–446.09375 MHz
- **Mode**: F3E (FM)
- **No. of operating ch.**: 8 (simplex)
- **Frequency stability**: ±2.5 kHz (-20°C to +55°C), ±1.5 kHz (0°C to +30°C)
- **Frequency resolution**: 12.5 kHz
- **Power supply requirement**: 4.5 V (R6 × 3) or BP-202
- **Current drain**: Less than 500 mA
- **Operating temp. range**: -20°C to +55°C (-4°F to +131°F)
- **No. of CTCSS freq.**: 38
- **Dimensions**: 55.5(W)×102.5(H)×26.5(D) mm (projections not included)
- **Weight**: 180 g (including 3 R6 batteries)

#### TRANSMITTER
- **Output power**: Less than 500 mW ERP
- **Maximum deviation**: ±2.5 kHz
- **Spurious emissions**: Less than 250 nW
- **Ext. mic. connector**: 3-conductor 2.5 (d) mm/2.2 kΩ

#### RECEIVER
- **Receive system**: Double-conversion superheterodyne
- **Sensitivity**: Less than 26.5 dBµV/m (20 dB SINAD)
- **Selectivity**: More than 8.5 kHz/-6 dB
- **Spurious and image rejection**: Better than 91.29 dBµV/m
- **Adjacent ch. rejection**: Better than 81.29 dBµV/m
- **Intermodulation rejection**: Better than 86.29 dBµV/m
- **Audio output power**: More than 100 mW at 10% (at 4.5 V DC) distortion with an 8 Ω load
- **Ext. speaker connector**: 2-conductor 3.5 (d) mm/8 Ω

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

◊ Battery packs
BP-202 Ni-Cd BATTERY PACK
3.6V/ 700 mAh rapid charge battery pack. (p. 6–7)

◊ Chargers
BC-119 DESKTOP CHARGER + AD-89 DESKTOP CHARGER ADAPTER
Rapidly charge battery packs in 1 to 1.5 hrs. An AC adapter is packed with the BC-119. The AD-89 must be used with the BC-119 for charging the battery pack. The CP-17L or OPC-515 can be used instead of the supplied AC adapter. (p. 7)

BC-119L DESKTOP CHARGER
AD-89 BATTERY PACK ADAPTER attached to BC-119 DESKTOP CHARGER. (p. 7)

◊ Speaker-microphones

HM-46
HM-75A
HM-54
HS-85 HEADSET
PTT switch
VOX
One-touch PTT for hands-free operation
Remote control capability.
(see p. 17 for details)
**Channel number and group number**

Use this page to record your group operating channel number (see p. 9) and group channel number (p. 11) for your reference.

<table>
<thead>
<tr>
<th>Operating channel number</th>
<th>Group code number</th>
</tr>
</thead>
</table>

**Channel frequency list**

<table>
<thead>
<tr>
<th>ch</th>
<th>Freq.(MHz)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>446.00625</td>
</tr>
<tr>
<td>2</td>
<td>446.01875</td>
</tr>
<tr>
<td>3</td>
<td>446.03125</td>
</tr>
<tr>
<td>4</td>
<td>446.04375</td>
</tr>
<tr>
<td>5</td>
<td>446.05625</td>
</tr>
<tr>
<td>6</td>
<td>446.06875</td>
</tr>
<tr>
<td>7</td>
<td>446.08125</td>
</tr>
<tr>
<td>8</td>
<td>446.09375</td>
</tr>
</tbody>
</table>
CE Versions of the IC-446S which display the “CE” symbol on the serial number seal, comply with the essential requirements of the European Radio and Telecommunication Terminal Directive 1999/5/EC.

This warning symbol indicates that this equipment operates in non-harmonised frequency bands and/or may be subject to licensing conditions in the country of use. Be sure to check that you have the correct version of this radio or the correct programming of this radio, to comply with national licensing requirement.
DE declaration of conformity

We Icom Inc. Japan
1-1-32, Kamiminami, Hirano-ku
Osaka 547-0003, Japan

Declare on our sole responsibility that this equipment complies the essential requirements of the Radio and Telecommunications Terminal Equipment Directive, 1999/5/EC, and that any applicable Essential Test Suite measurements have been performed.

Kind of equipment: PMR446 FM TRANSCEIVER

Type-designation: IC-446S

Version (where applicable): IC-446S

This compliance is based on conformity with the following harmonised standards, specifications or documents:

i) ETSI 300 279 v1.2.1 (1999-02) (EMC product standard)

ii) EN 50360 August 1992 (Safety of information technology equipment)

iii) ETS 300 296 December 1994 (Radio equipment for analogue speech)

We Icom (Europe) GmbH
Himmelgeister Straße 100
D-40225 Düsseldorf

Authorized representative name

T. Acki
General Manager

Signature

Düsseldorf 25th Sept. 2000

Place and date of issue

Icom Inc.