# COM

INSTRUCTION MANUAL

VHF TRANSCEIVER

IC-H19s2

Icom Inc.



#### **IMPORTANT**

**READ THESE INSTRUCTIONS** carefully and completely before using the transceiver.

**SAVE THIS INSTRUCTION MANUAL.** This instruction manual contains important safety and operating instructions for the transceiver.

#### **CAUTIONS**

**WARNING:** The transceiver **DOES NOT** meet required intrinsically-safe ratings when an unauthorized option is used. Refer to p. 6 for details.

**NEVER** expose the transceiver to heavy rain, snow, or liquids of any kind.

**NEVER** disassemble the transceiver. Incorrect reassembly may result in a fire or explosion hazard.

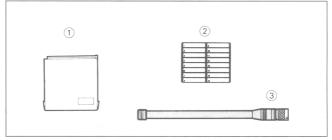
**NEVER** allow children to touch the transceiver.

#### **FOREWORD**

Thank you for purchasing the IC-H19S2 VHF TRANSCEIVER.

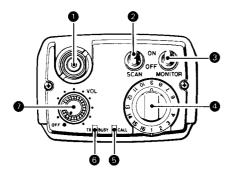
The transceiver is an intrinsically-safe type when used with the supplied CM-71 BATTERY PACK and also meets strict MIL (U.S.A. military) standards 810C and 810D.

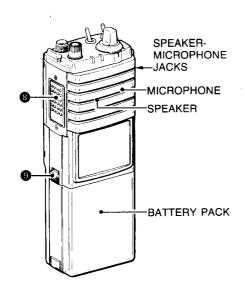
#### **UNPACKING**



Accessories included with the IC-H19S2:	Qty.
1) Battery pack (CM-71)	1
② Channel memo sticker	1
3 Flexible antenna (FA-155T)	1

#### **CONTROL FUNCTIONS**





- ANTENNA CONNECTOR
   Connects the supplied flexible antenna.
- SCAN SWITCH [SCAN] Turns scan function ON and OFF.
- MONITOR SWITCH [MONITOR]
  Allows you to monitor a signal on the selected channel.
- **4 CHANNEL SELECTOR**Selects an operating channel.
- **6** CALL INDICATOR [CALL]
  Lights up in red when a selected call is received.
- **6** TRANSMIT/BUSY INDICATOR [TX/BUSY]
  - Lights up in red while transmitting.
  - Lights up in green when the selected channel is busy.
- POWER SWITCH/VOLUME CONTROL [VOL] Turns the power ON and OFF, and adjusts the audio output level.
- 8 PTT SWITCH Push and hold to transmit and release to receive.
- BATTERY PACK RELEASE BUTTON
   Allows the battery pack to be removed from the transceiver.

### 2 PRE-OPERATION

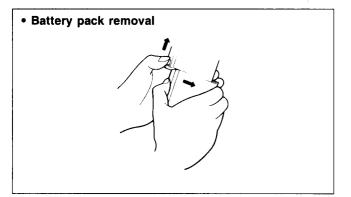
#### ■ Antenna connection

Connect the supplied flexible antenna into the antenna connector on the top panel of the transceiver. Screw down securely.

#### Battery pack replacement

The power **MUST** be turned OFF before replacing the battery pack. Rotate [VOL] counterclockwise until you hear a click to turn OFF the power.

Push upward and hold the battery pack release button, then slide the battery pack to the right with the transceiver facing you.



#### **■** Battery pack charging

Prior to using the transceiver for the first time, the battery pack MUST be fully charged using an optional BM-75 MULTI-CHARGER or BM-70/E AC BATTERY CHARGER.

**NOTE:** The transceiver power **MUST** be OFF if a battery pack is to be charged while it is attached to the transceiver.

- Connect the battery charger to a domestic AC outlet with the supplied AC power cable.
- 2) Insert the battery pack into the charging slot with the front of the battery pack facing you.
  - The charging indicator lights up in red.
- 3) Pull out the charged battery pack when
  - BM-75 : The yellow indicator lights.
  - BM-70/E : The charging indicator goes out.
  - Charging time

BM-70/E : Approx. 60 min.

BM-75 : Approx. 90 min. (up to 3 battery packs)

Approx. 180 min. (up to 6 battery packs)

Refer to the BM-75 or BM-70/E instruction manual for details.

#### ■ Battery pack cautions

**NEVER** expose the battery pack to fire, as internally generated battery gas may cause an explosion.

**NEVER** put the battery pack in water. If the battery pack becomes wet, be sure to wipe it dry.

**NEVER** short circuit the terminals of the battery pack as internal components may be damaged and current may flow into nearby metal objects.

**AVOID** charging the battery pack in extreme cold (under 0°C) or extreme heat (over + 40°C). The battery pack may not be charged fully at these extremes of temperature.

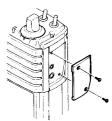
When the operating time between successive charges becomes much shorter than that for a new battery pack, the battery pack may be reaching the end of its operating life. At this time, a new battery pack should be purchased.

#### **■** Low battery condition

When [TX/BUSY] goes out or fails to light up during transmission, the battery pack should be recharged or replaced with a fully charged battery pack.

# ■ Speaker-microphone connection

- Unscrew 2 screws on the right side cover.
- 2) Remove the cover.
- 3) Tighten 2 screws on the EM-49 SPEAKER MICROPHONE plug.



#### ■ Intrinsically safe type

The transceiver is intrinsically safe when operating under the conditions described below.

In Class I, division 1, groups C and D atmospheric conditions. Max. temperature range is T4A.

#### ■ Nonincentive type

The transceiver is nonincentive when operating under the conditions described below.

In Class I, division 2, groups A, B, C and D atmospheric conditions. Max. temperature range is T4A.

# 3 OPERATION

**NOTE:** When an optional UT-59 DTCS UNIT is installed, operation differs from the following procedure. Ask your lcom Dealer for details.

#### Receiving

1 Set switches as follows:

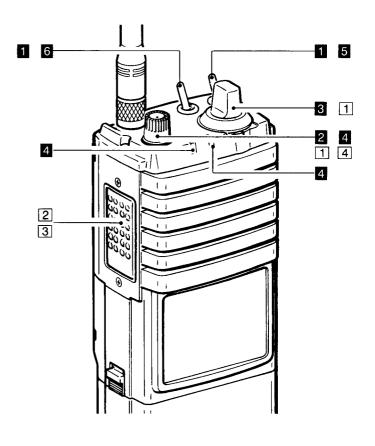
- [MONITOR] : OFF position

- [SCAN] : OFF position

Ø.

2 Set [VOL] to the 10 o'clock position.

- · Power comes ON.
- 3 Set the channel selector to the desired channel position.
- 4 When receiving a call, adjust [VOL] to the desired audio output level, if needed.
  - [TX/BUSY] lights up in green and [CALL] lights up in red.
- 5 When [TX/BUSY] lights up in green and no audio is heard, turn ON [MONITOR] to monitor the channel, if needed.
- 6 To search a programmed channel automatically, turn ON [SCAN].



## OPTIONS 4

#### **■** Transmitting

**CAUTION:** Transmitting without an antenna may damage the transceiver.

**NOTE: DO NOT** transmit when [TX/BUSY] lights up in green. Your transmission may interfere with another station.

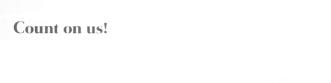
- 1 Turn ON power and set the channel selector to the desired channel position.
- 2 Push and hold the PTT switch, and speak into the microphone.
  - [TX/BUSY] lights up in red.
  - DO NOT hold the transceiver too close to your mouth or speak too loudly. This may distort the signal.
- 3 Release the PTT switch to return to receive.
- 4 To turn OFF the power, rotate [VOL] counterclockwise until you hear a click.

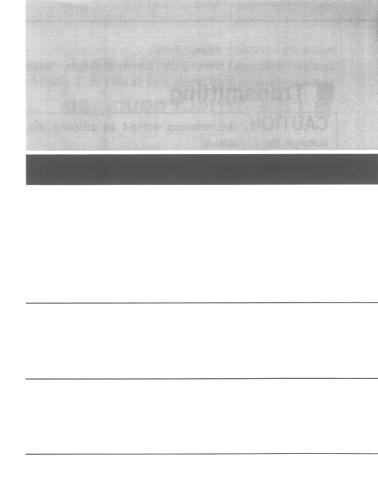
**WARNING:** When the optional CM-72 or CM-73 BATTERY PACK is used, the transceiver is **NOT** an intrinsically-safe type.

- BM-70/E AC BATTERY CHARGER Desktop type. Rapidly charges the CM-71 within approx. 60 min.
- BM-75 MULTI-CHARGER Charges up to 6 separate CM-71 ~ CM-73 within approx. 180 min. Only approx. 90 min. charging time for 1 ~ 3 separate CM-71 ~ CM-73.
- CM-71, CM-72, CM-73 BATTERY PACKS

CM-7	1	Intrinsically safe. 7.2 V, 1000 mAh
CM-7	'2	8.4 V, 1000 mAh
CM-7	'3	13.2 V, 1000 mAh

- EM-49 SPEAKER-MICROPHONE Combination speaker and microphone.
- **HG-1 CHARGER HANGER** Mounts the BM-75 on a wall.
- **UT-42 DTMF ENCODER UNIT** Provides repeater control and autopatch operation.
- UT-59 DTCS UNIT Ensures advanced, quiet standby and selective calling with a 3-digit code. A total of 177 codes are available.





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