



**KANEMATSU CORPORATION**

BS HH1 6

Users Manual

## **INTRODUCTION**

This Manual describes the operation for the Kanematsu Handheld radio. This Handheld is full-featured FM transceiver designed for flexible mobile business communications in the VHF or UHF Land mobile bands.

This Land mobile radio can be programmed with 16 channels. Important channel frequency data is stored in EEPROM and flash memory on the CPU, and easily programmable by dealers using personal computer and PC EDITER software.

### **FCC Requirements**

Your radio must be properly licensed Federal Communications Commission prior to use. Your Wireless dealer can assist you in meeting these requirements. Your dealer will program each radio with your authorized frequencies, signaling codes, etc., and will be there to meet your communications needs as your system expands.

This device complies with part 15 of the FCC Rules. Operation is subject to the Condition that this device does not cause harmful interference.

NOTE: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

## **SAFETY WARNING INFORMATION**

READ THIS IMPORTANT INFORMATION ON SAFE AND EFFICIENT OPERATION BEFORE USING YOUR LAND MOBILE RADIO

Only qualified technicians are allowed to repair this product. Do not operate the radio without a proper antenna attached. As this may damage the radio and may also cause to exceed FCC RF exposure limits.

Typical electronic systems that may malfunction due to the lack of protection from radio frequency energy present when transmitting. If the vehicle contains such equipment, consult the dealer.

Just as it is dangerous to fuel a vehicle with motor running, similar hazard exist when operation a mobile radio. Be sure to turn the radio off while fueling a vehicle. 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.

Do not transmit for more than 50% of total radio use time. Transmitting more than 50% of the time can cause FCC RF exposure compliance requirements to be exceeded.

Always Keep at least 25cm (10inches) between the antenna and operator while transmitting. Always use authorized accessories. Dynamite blasting caps may be caused to explode by operating a radio within 500 feet of the blasting caps. Always obey the "Turn Off Two –Way radios" signs posted where dynamite is being used. Do not install the radio in the closed compartment that contains an LP gas container or its fitting.

No changes or adjustments shall be made to the equipment except by an authorized or certified electronic technician. Using your radio to send personal messages is a violation of FCC rules.

# Control and Connectors

## FRONT PANEL



### **1 VOL/PWR Knob (3)**

Turn this control clockwise to turn the radio on and increase the volume. Turn it counterclockwise into the click-stop to the radio off.

### **2 BUSY/TX Indicator**

Indicate transceiver Transmit/Receive Status

Steady Red: Transmitting in progress

Steady Green: Busy Channel

### **3 Channel Selectable Knob (2)**

Selectable channel Knob.

### **4 UDC Terminal (7)**

Connect the microphone or speaker.

An external loudspeaker may be connected to this 2-contact.

Caution: Do not connect either wire of this line to ground, and be certain that the speaker has adequate capability to handle the audio output (4W) from the radio.

### **5 Monitor Buttons (6)**

All channel activity can be monitored by pressing the button.

### **6 SCAN Button (5)**

Switches the Scan Mode on and off.

### **7 Antenna Connector ( 1)**

The 50-ohm to the antenna must be connected here, using a SMA plug.

### **8 7.2V DC Input**

The supplied Battery must be connected to this 2-contact.

## **BASIC OPERATION**

Important! – Before turning on the radio the first time, confirm that the power connections have been made correctly and that a proper antenna is connected to the antenna jack.

Overview -Your authorized Dealer can program your radio for Conventional format.

### **RECEIVE**

#### **Switching Power ON**

Turn power on by the VOL/PWR knob. The radio will beep.

#### **Setting the volume**

Turn the VOL/PWR knob clockwise to increase the volume, and counterclockwise to decrease it.

### **Select a Channel**

Use the rotary switch (channel knob) to select the operating channel.

### **Transmitting**

Press the Monitor button to listen for channel activity

When receiving a call, transmit only after the incoming call ends. The radio cannot receive a call and transmit simultaneously.

#### **Press PTT switch.**

If the channel is clear, the BUSY/TX indicator will glow red. The radio is now transmitting. While holding in the PTT switch, speak across the face of the microphone in a clear and normal voice. For best transmission, hold the microphone about 1-1/2 to 2 inches away from your mouth. Release the PTT switch to receive.

If the Busy Channel Lockout feature has been programmed on a channel, the radio will not transmit when a carrier is present. Instead, the radio will generate a continuous low-pitched tone while PTT switch is pressed. Release the PTT switch and wait for the channel to be clear of activity.

If CTCSS or Digital Code Squelch (DCS) Lockout has been programmed on a channel, the radio can transmit only when there is no carrier being received or when the carrier being received includes the correct CTCSS tone or DCS code.

#### **Time-Out Timer**

If the selected channel has been programmed for Time-Out timer, you must limit the length of each transmission. While transmitting, a beep will sound 10 seconds before time-out. Another beep will sound just before the deadline; The TX indicator will disappear the transmission will cease soon thereafter. To resume transmitting, you must release the PTT switch and wait for the "penalty timer" to expire (if you press the PTT switch before this timer expires, the timer restarts, and you will have to wait another "penalty" period)

## **ADVANCED OPERATION**

### **MONITOR**

Press the monitor button hears background noise (unmute the audio); the BUSY/TX indicator will glow green.

### **SCAN**

The Scanning feature is used to monitor multiple channels programmed into the transceiver. While scanning, transceiver will check each channel for the presence of a signal, and will stop on a channel if a signal is present.

Press the SCAN button to active scanning. The scanner will search the each channels, looking for active ones; it will pause each time if finds a channel on which someone is speaking.

Press the SCAN button again to disable scanning. Operation will revert to the before scan start channel.