

# USER'S MANUAL

## WARNINGS

- ⚠ Please read the following precautions to prevent fire, personal injury or the radio destruction.
- ⚠ Do not attempt to adjust the radio while driving; is dangerous.
- ⚠ This radio is designed for power supply at 13.8V DC. Do not use a 24V battery to power the radio.
- ⚠ Do not place the station on an excessively dusty, damp or unstable surface.
- ⚠ Do not connect the antenna during transmission, risk of burning or electric shock.
- ⚠ Please keep distance from devices that cause interference (such as TV, generator, etc.)
- ⚠ People who use pacemakers are advised to keep distance from the antenna during transmission and especially not to touch it.
- ⚠ Do not connect metal objects to the internal electrical side; danger of electric shock.
- ⚠ Avoid exposing the radio to temperatures below -30°C and above + 60°C, the temperature on a vehicle may sometimes exceed 80°C, which can cause irreparable damage to electric devices. Do not expose the radio to sunlight.
- ⚠ Do not place anything on the radio, it will prevent it from cooling down.
- ⚠ Check to see if you have enough charged battery to avoid rapid discharge.
- ⚠ It is important to stop the radio before starting the engine, to avoid damage caused by high starting voltage.
- ⚠ You must use a 2A 250V fuse type F. Under no circumstances use a higher value.
- ⚠ If an abnormal odor or smoke is detected as coming from the radio, switch off the appliance immediately.
- ⚠ Do not transmit for a long time, the radio may warm up.
- ⚠ Keep the station away from children.

## INTRODUCTION

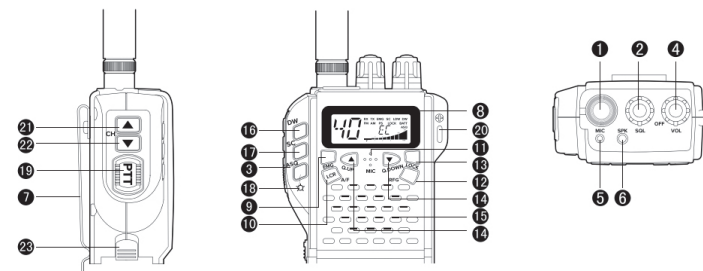
The PNI HP-62 is a small portable transceiver which guarantees great performance for many years of use. What is unique to this innovative transceiver is the capability to select any of European CB bands with an easy and quick procedure. The PNI HP-62 has built-in Channel Phase Loop synthesizer (PLL) circuit and an automatic battery economy circuit.

*Nota: The unit is preset at the factory on the "CE" band*

### Important Note!

Some countries may require you to own or purchase a CB license – please check with the relative authorities in your country.

## FUNCTION AND LOCATION OF THE CONTROLS



- 1. Antenna connection:** fix a compatible antenna (not included in the package). To get better performance, you can use an external antenna that plugs into the included adapter.
- 2. Squelch Control:** This function allows to reduce background noise of the station. By rotating the button to the right, the function becomes active. By rotating the button to the left, the function becomes inactive. The button should be set precisely to the position where the background noise disappears.
- 3. ASQ key:** briefly press this key to turn on the backlight of the screen. When the screen light is on, press again to turn off the backlight. By long pressing this key, enter the ASQ mode. While you are in ASQ mode, briefly press this key to enter the ASQ level adjustment mode, the current level of Squelch will blink. Use the Q.UP / Q.DOWN keys to change the ASQ level (there are 5 levels available). Also in ASQ mode, briefly press the ASQ key twice to turn off or turn on the backlight of the screen.

*Note: For Squelch, we recommend level 02 (or 03 for louder areas).*

### 4. ON/OFF and Volume Control key:

Rotate this knob to the right to turn on the radio. Turn slightly to the right to adjust the volume.

### 5. Microphone jack:

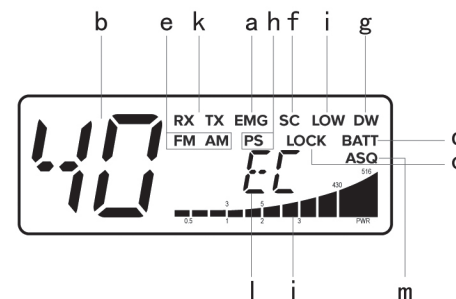
Connect a headset with a microphone

### 6. External speaker jack:

Connect a headset with a microphone

### 7. Belt clip

### 8. Multifunction backlighted display



This liquid crystal display has been projected to show the operative modality:

- a. The EMG function is active
- b. Selected channel number (1 to 40)
- c. Lock: The key lock function is active
- d. BATT: Low battery indicator
- e. AM / FM mode
- f. SC: The SCAN function is active

- g. DW: DUAL WATCH function
- h. PS: The Power Save function is active. If no key is pressed for 5 seconds, the radio enters the power saving mode.
- i. Low (Low Power) function is active
- j. The received signal strength and the power of the transmitting signal
- k. RX / TX: TX = transmit mode; RX=received mode
- l. Frequency band selected
- m. ASQ function available

- 9. EMG key:** briefly press this key to enter emergency mode 9/19; the EMG icon will blink
- 10. A / F-LCR key:** to select AM or FM mode; the modulation you are setting will be displayed on the screen. If you select a frequency that operates only in the FM band, the A/F-LCR key will activate the Last Channel Recall (LCR)
- 11. Microphone:** During the broadcast, hold the microphone at a distance of 4 cm from the mouth and speak using a normal tone of voice.
- 12. RFG Key:** briefly press this key, on the screen "R 00" will show up; "00" will flash. Press the Q.UP / Q.DONW keys to select one of the 9 levels (00, 06, 12 ... 54); press this button again to confirm and exit.

*Note: We recommend to disable RFG function (or level 06 for louder areas).*

- 13. Lock key:** It allows you to lock the keyboard, thus avoiding accidental use of the keys.
- 14. Q.UP-Q.DOWN keys:** To skip 10 channels up (Q.UP) or 10 channels down (Q.DOWN)
- 15. Loudspeaker**
- 16. Dual Watch:** This function allows the synchronization on two different channels at the same time. Thanks to this function, you can monitor a second channel. When a signal on the second channel is received, the conversation on the first channel is automatically interrupted and the receiver switches on the second channel. The monitoring starts again 4 seconds after the signal end.

TO activate this function, operate as follows:

- Select the desired channel through the channel selector
- Press the DW button
- Select the second channel
- Press the button DW again
- To cancel the function press again the DW button or the PTT button

- 17. SCAN key:** you can automatically search for a busy channel
  - Turn the squelch clockwise until the background noise is no longer heard.
  - Press the "SCAN" button: the transceiver will scan automatically all the channels until a carrier is being received.
  - When it finds the carrier, it stops and starts again some seconds after the end of the communication on the channel.
  - When the radio is transmitting, the scan function is deactivated.

- 18. Key ☆:** when in the SQ mode short press this button, turn on the background ligh, short press this button again, to turn off the ligh, long press this button will enter ASQ, in ASQ mode, short press the button to turn on the background ligh and short press again will turn off the light.

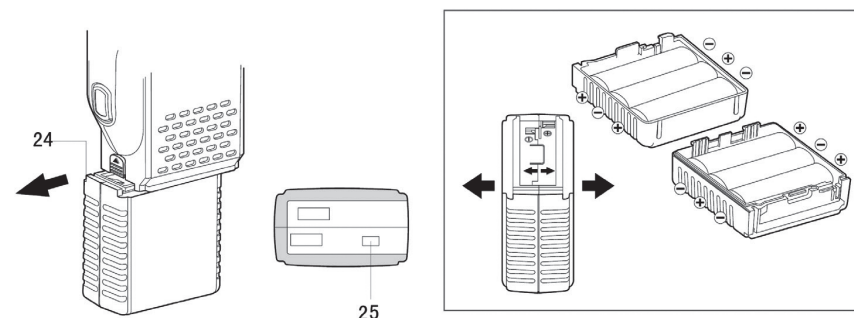
- 19. Push to talk button (PTT):** Its pressure activates the transmission. When it is released, the receiver is activated.

- 20. Hole for wrist belt**

- 21. Channel UP:** To skip to the next channel. Keeping this button pressed, the "auto-repeat" function is obtained.

- 22. Channel DOWN:** To skip to the previous channel. Keeping his button pressed, the "auto-repeat" function is obtained.

- 23. Contact for power adapter and external antenna.** Pull the button up to remove the adapter.



**24. Battery compartment (optional accessory, not included): Add 6 Ni-Cadmium alkaline batteries**

## HOW TO OPERATE

1. Attach the included car adapter. Connect the PL259 plug to an external antenna, and the cigarette lighter socket on the vehicle
2. Turn the ON / OFF button clockwise. Adjust the volume to a level of comfort.
3. Adjust the SQUELCH level
4. Select the desired channel using the UP/DOWN keys or the QUICK UP QUICK/DOWN keys

*Note: If you can not change the channel, check if the EMG or LOCK key has not been pressed.*

**To transmit:** press and hold the PTT button, then talk into the microphone

**To receive:** simply release the PTT button

## FREQUENCY BAND SELECTION

The frequency bands must be chosen according to the country you are in.

Procedure:

1. Switch off the unit.
2. Turn it on while pushing the "Q.UP" and "SC" buttons.
3. By pushing the CH ▲ CH ▼ buttons, select the desired frequency band (see the chart here below)
4. To fix your selection press the "Q.UP" button.

*Notes:*

*In the UK frequency band, you can directly select the CE band by pressing the AM / FM key for 2 seconds.*

## FREQUENCY BAND CHART

Symbol	Country
EC (CE)	CEPT 40 CH FM 4Watt
EU	Europe 40 CH AM/FM 4Watt
D4	80 CH FM 40 CH AM
D3	80 CH FM 40 CH AM
D2	40 CH FM 12 CH AM
D	80 CH FM 12 CH AM

<b>I2</b>	Italy 34 CH AM/FM 4Watt
<b>I</b>	Italy 40 CH AM/FM 4Watt
<b>In</b>	Europe 27 CH AM/FM 4Watt
<b>PC</b>	50CH FM/AM
<b>HD (HU)</b>	Russia 400 CH AM/FM 4Watt (nu este permis in Europa)
<b>PD (PU)</b>	Russia 400 CH AM/FM 4Watt (nu este permis in Europa)
<b>RD (RU)</b>	Russia 400 CH AM/FM 4Watt (nu este permis in Europa)
<b>UK</b>	England 40 CH FM 4Watt English frequencies + CE 40 CH FM 4Watt CEPT frequencies
<b>PL</b>	Poland 40 CH AM/FM 4Watt
<b>F (FR)</b>	France 40 CH FM/AM
<b>E</b>	Europe 40 CH

Frequency range: 26.965MHz-27.405MHz

#### ATTENTION!

The frequency band allowed in Europe is 40 CH FM 4W (EC).

#### TECHNICAL SPECIFICATIONS

Channels	40FM (see the frequency band chart)
Frequency range	26.965~27.405MHz
Operation mode	F3E (FM), A3E (AM)
Antenna impedance	50 Ohm
Loudspeaker	8 Ohm 0.5W
Supply voltage	7.2÷13.2 nom 12V
Dimensions	107 x 108 x 28 mm
Weight	424 gr
<b>RECEIVER</b>	
Sensitivity at 10dB S/N	0.5uV (AM) 0.25uV (FM)
Selectivity	> 60dB
Squelch range	0.25V-500uV
Audio output power	0.5W 8 ohm (10% distortion)
Distortion at 1000uV	3%
Audio frequency response	400-2400Hz
Intermediate frequency	I°10.695MHz / II° 455KHz
Spurious response	More than 60 dB
Current drain at standby	100mA when the power save mode is off 45mA when the power save mode is on
<b>TRANSMITTER</b>	
RF Output Power	duty cycle 10% 4W AM/FM

Frequency Tolerance	0.005%
Harmonic Suppression	> 70dB
Current Drain	900mA
Modulation	AM 90% (±5%) FM dev.2.0 KHz

#### CB ANTENNA PNI EXTRA 48

PNI EXTRA 48 is a small CB radio antenna suitable for cars and trucks, compatible with all CB radio transceivers on the market. It is very easy to install with the magnetic mount included in the package.

#### MOUNTING INSTRUCTIONS

Fix the antenna on the magnetic base and position it in the center of the car dome.  
Connect the antenna to the CB transceiver.

*Note: The antenna is tuned from the factory.*

#### TECHNICAL SPECIFICATIONS

<b>Frequency</b>	26 - 28Mhz	<b>Whip length</b>	440 mm
<b>Gain</b>	>5dbi	<b>Cable</b>	RG174, L=4000 mm
<b>S.W.R.</b>	<1.2:1	<b>Polarity</b>	Vertical
<b>Power</b>	max. 150W	<b>Material</b>	Fiberglass
<b>Impedance</b>	50 Ohm	<b>Magnetic mount</b>	103 x 66 x 40 mm