



# INDIA

PMR446 Handheld transceiver



Model RP-106

## INSTRUCTION MANUAL

### Basic information

#### Parts list:

1	Radio	1	USB cable
1	Battery	1	Hand strap
1	Adapter	1	User manual
1	Belt clip		



#### Basic parameters

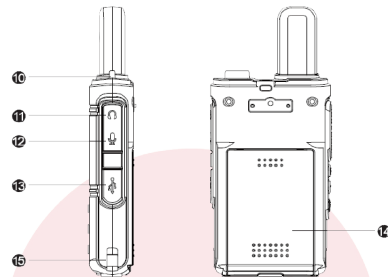
Size: 130 x 55 x 22

Weight: 97 gr. approx.

Channels: 16

Operating voltage: 3,3-4,2 V CC

Working temperature: -20 °C ~ +50 °C



- 1 PTT
- 2 Light
- 3 Mic
- 4 Speaker
- 5 Antenna
- 6 Side PTT button
- 7 Channel +

- 8 Channel -
- 9 Power ON / OFF
- 10 Volume
- 11 Earphone interface
- 12 Mic interface
- 13 USB interface
- 14 Battery cover
- 15 Charger contacts

### Indicator

The green light flashes when the radio is receiving. The red light flashes when the radio is transmitting.

### Channel switch

Select the desired channel to communicate from channel 1 to 16. Press the CHANNEL UP button to select the next channel. Press the CHANNEL DOWN button to select the previous channel.

### Power switch

Press the power switch key for about 2 seconds to turn on the radio. When the radio needs to be turned off, press the power switch key for about 2 seconds to turn it off.

### PTT

The radio has two PTT switches, one on the side and one on the front. Press PPT and speak into the microphone to communicate with others. The red light flashes. Release PTT to receive and the green light flashes.

### Monitor

Press and hold the CHANNEL UP key to activate reception and monitor the channel, press it again to deactivate the function.

### Squelch level

The purpose of squelch is to mute the speaker when no signals are present:

Lowest squelch level: high background noise, longer communication range, weaker anti-interference.

The default squelch level is 5 and can be programmed in levels 0-9 by software.

Level 0 is to open squelch. The higher the squelch level selected, the stronger the signals must be in order to be received..

### TOT

This function can prevent users from occupying the current channel for a long time and limit the transmission time to prevent the radio from being damaged by long-term transmission.

If the radio continues to transmit beyond the time limit (set by the programming software), the radio will stop transmitting and emit a warning sound. To stop the warning sound, release the PTT and the radio will return to the receiving state.

When the transmission exceeds the time, an early warning is given in advance (configurable by software)

### CTCSS

Using the programming software, a non-standard CTCSS tone can be programmed, which increases the privacy of communication.

### Voice selection

Select the desired language using the PC program software.

### Power saving function

Select whether to enable or disable the power saving function using the PC program software.

### Battery voltage alert

When the battery voltage is lower than a certain level, the voice "please charge" will sound and it cannot transmit.

### Busy channel lockout

If the radio is programmed with BCLO, it will not be able to transmit on a channel that is busy.

### High/Low power switch

The default setting of the radio is high power. You can switch high/low power by PC programming software.

### Narrow band selection

The default radio setting is narrow band 12.5 kHz.

### VOX

Enable or disable the VOX function using the programming software.

With the VOX function activated, speaking to the microphone will activate transmission. When you finish speaking, the radio will return to reception mode.

When using a headset, you must adjust the VOX level to an appropriate level. If the microphone is too sensitive, noise will trigger transmission; if the microphone is not sensitive enough, your voice will not trigger transmission. To communicate properly, set an appropriate level.

### Scrambler

Enable or disable the scrambler function using the programming software.

The scrambler function is a form of communication encryption that makes communications unlistenable to transceivers outside your user group. To listen to the

communication, all transceivers in your group must have the function enabled.

## QT/DQT

You can set CTCSS/DCS by PC programming software. When configuring channels, CTCSS/DCS can be set. When channels are set to CTCSS/DCS, squelch can be activated when a signal with the same CTCSS/DCS is received. If the same channel uses a different QT/DQT, squelch cannot be activated and the light will be green.

- QT:(total 50 )
- DQT:(total104\*2 )

## Charging indicator

The battery is charged via the USB connector located on the side of the radio. During charging, the indicator LED lights up red.

## Channel locking function

Press and hold the CHANNEL DOWN key until you hear 2 “beeps” and activate the channel lock function on the current operating channel. Press and hold the CHANNEL DOWN key to unlock the channel, you will hear a “di”, and the channel selection keys will work normally.

## Troubleshooting

Problem	Solution
No power	The battery may be run out. Replace or recharge it. The battery may not be installed correctly. Remove and reinstall it.
The battery lasts a short time after charging	The battery life has ended. Please replace the battery with a new one.
Cannot talk to other group members	Verifique la frecuencia y que sus ajustes QT/DQT sean los mismos que los otros miembros del grupo. Verifique que la distancia está dentro del rango de cobertura
Listen to conversations from other groups in a channel	Change the QT/DQT settings of all radios in this group.
Radio continue squeak	There is no transmission on the selected channel. Reprogram the squelch level, select another channel or program a frequency.

**NOTE:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

## Specifications

GENERAL	
Frequency range	446.00625 ~ 446.19375 MHz
Channels	16
Channel spacing	12.5 KHz
Frequency stability	± 5 ppm.
Voltage	DC 3.7V
Antenna impedance	50 Ω
Working temperature	-20 °C ~ 50 °C
Battery capacity	1200 mAh
Dimensions	130 x 55 x 22 mm.
Weight	97 grs.
TRANSMITTER	
Output Power	0.5 W
Modulation	2.5KHz@12.5KHz
FM Noise	≤ 45 dB
Max. Freq. Deviation	≤ ± 5 KHz
RECEIVER	
Sensitivity	0.2uV/121dBm (24db SINAD)@ 25 KHz
Adjacent channel selectivity	50db@2.5KHz 55db@20/25KHz
Audio output power	1 W
Audio distortion	≤ 5%



### EU STATEMENT OF COMPLIANCE

FALCON RADIO & ACCESSORIES SUPPLY, S.L.U. ID no.: B-60565314,  
C/ Vallespir, nº 13, Poligono Industrial FontSanta,  
08970 San Joan Despi - Barcelona (SPAIN)

#### Product description:

**Equipment:** PMR446 HANDHELD TRANSCEIVER  
**Brand:** ESCOLTA  
**Model:** INDIA RP-106  
**Manufacturer:** FALCON RADIO & A.S., S.L.U.  
**Made in:** China  
**Accessories:** Li-Ion battery B03HF10E01  
AC Adapter D-C501

We, FALCON RADIO & A.S., S.L.U. declare under our sole responsibility that this product is in conformity with the provisions of Directive 2014/53/EU of the European Parliament and of the council of 16 April 2014 on the harmonization of the laws of the member States relating to the making available on the market of radio equipment and repealing Directive 1999/05/EC.

The standards granting the conformity of this product are:

EN IEC 62368-1:2020+A11:2020  
EN 50566:2017  
EN IEC/IEEE 62209-1528:2021  
ETSI EN 301 489-1 V2.2.3 (2019-11)  
ETSI EN 301 489-5 V2.2.1 (2019-04)  
ETSI EN 303 405 V1.1.1 (2027-05)

LGA1 Technological Center, SA – NB No. 0370 (APPLUS) has issued the EU-Type Examination Certificate number: 0370 RED 7285.



Sant Joan Despi-Barcelona (Spain), October 15, 2024

Xavier Falcón Vilaplana, CEO-General Manager  
FALCON RADIO & A.S., S.L.U.

## General information



This product bears the symbol for selective sorting of waste electrical and electronic equipment as it may be hazardous to the environment and public health. At the end of its useful life, all its components must be delivered to selective collection centres in accordance with Directive 2012/19/EU. For more information, consult your dealer or Local Administration. Deposit unusable packaging in containers intended for recycling.



This product complies with Directive 2017/2102/EU amending Directive 2011/65/EU restricting the use of certain hazardous substances in electrical and electronic equipment.



This device is free use.

European Union states of permitted use:

AT	BE	BG	HR	CY	CZ	DK
EE	FI	FR	DE	EL	HU	IE
IT	IV	LT	LU	MT	NL	PL
PT	RO	SK	SI	ES	SE	