

# Users Manual MIP-200

Motorcycle-PMR-Intercom with hands free feature for cell phones as well as audio connection

Thank you very much for buying our Motorcycle-PMR-Intercom.

## **1. Correct Using**

The MIP-200 is designed for mobile communication for motorcyclists. Using this unit in other ways than described is not allowed.

## **2. Security Information**      ***! IMPORTANT ! PLEASE READ !***

Any damages resulting out of using this unit in another way than described in this users manual, will lead into lost of warranty. We are not responsible for any damage resulting out of wrong using of this unit.

Attention ! The Multi-Function-Box as well as all connected cables need to be installed in that way, that they do not hinder the drivers safety.

Do not pull the cables of the Multi-Function-Box as it can lead into malfunction of the unit or the water resistance might be damaged.

## **3. Deliverd With**

- 1 pc. Multi-Function-Box with cables and 12 V power cable with standard power plug
- 2 pcs. Helmet speaker set with extension cable (6 pin)
- 2 pcs. Ear pads for helmet speaker set
- 1 pc. Audio connection cable with 3,5 mm angle-entry-plug on 3,5 mm plug (straight)
- 1 pc. Telephone connection cable with 2,5 mm angle-entry-plug on 3,5 mm connection
- 1 pc. Mini magnet antenna with SMA-plug (fixed) for PMR-function
- 1 pc. Extension cable with PTT-switch and Volume/UP/DOWN (for intercom and audio function) on Mini-DIN-Connection (4 pin)

## **4. Installation Note**

To activate the unit, please use the 12 V jack of your motorbike.

**NOTE: Please first follow all below described steps before you connect the unit to the 12 V jack !**

**ATTENTION: The multi connector at the Multi-Function-Box is waterproof fixed. DO NOT DISTURB !!!**

### **4.1. Connections**

#### **4.1.1. Connection to the telephone (3,5 mm plug)**

Connect the 3,5 mm connection with the 3,5 mm plug of the Multi-Function-Box. Next connect the 2,5 mm angle-entry-plug of the telephone connection cable either direct with your cell phone or in an optional available cell phone headset adapter.

**According to legislation it is not allowed to do outgoing calls while driving!**

**NOTE:**

Cell phones equipped with a 2,5 mm universal jack, can be connected directly with the 2,5 mm angle-entry-plug of the telephone connection cable. If your cell phone is not equipped as described before, an optional available cell phone headset adapter is required.

4.1.2. Audio Connection (3,5 mm plug)

Connect the 3,5 mm plug of the audio cable with the 3,5 mm jack at the Multi-Function-Box. Next connect the 3,5 mm angle-entry-plug of the audio cable to the unit (e.g. MP3-Player, Radio, Walkman).

4.1.3. PTT Connection (4 pin Mini-DIN-Plug)

Connect the 4 pin Mini-DIN-Jack of the PTT-cable to the 4 pin Mini-DIN-Plug of the Multi-Function-Box.

4.1.4. Helmet Speaker Set Connection (6 pin Mini-DIN-Jack)

Driver without blind plug/ passenger with attached blind plug

Connect the helmet speaker set extension cable and the helmet set to your MIP 200. In case you don't need the set for a passenger, you can cover the plug with the blind plug to avoid water to come in.

4.1.5. Antenna Connection

The antenna is equipped with a magnet mount for installation on the motorbike. Due to regulations the antenna plug is fix connected with the Multi-Function-Box. It is not allowed to disconnect this connection.

NOTE: Please pay attention to the driving speed. The magnet mount is not designed for higher speed, we don't give warranty for malfunction if speed is too high.

4.1.6. 12 V Power Supply Connection

Connect the 12 V plug with the 12 V power supply jack of your motorcycle.

**NOTE: Attention ! To avoid that the battery will get weak please disconnect the 12 V plug from the motorcycle jack.**

4.1.7. Changing Fuse

In the fuse holder of the cable is a 2,5 Ampere fuse (6x30 mm) for the 12 V connection. In case of replacing the fuse, please only use fuses of the before named size and value.

Changing the fuse:

Press the fuse holder and turn it until it opens up. Take out the defective fuse and replace it by a new one. Close the fuse holder.

**4.2. Functions**

4.2.1. PMR-Function

The PMR function can be switched on and off by pressing the button. When PMR function switched off, all other functions are still available. PMR function is directed automatically through the Multi-Function-Box. There are 8 channels available.

Originally channel 2 is selected. For changing to an other channel, follow these steps:

- Disconnect the unit from the power supply.
- Open up the two crews of the metal cover at the backside of the unit.
- Push the push-buttons as described as follows.

1	2	3	4	Push-button
0	0	0	0	CH 1 – 446.00625 MHz
1	0	0	0	CH 2 – 446.01875 MHz
0	1	0	0	CH 3 – 446.03125 MHz
1	1	0	0	CH 4 – 446.04375 MHz
0	0	1	0	CH 5 – 446.05625 MHz
1	0	1	0	CH 6 – 446.06875 MHz
0	1	1	0	CH 7 – 446.08125 MHz
1	1	1	0	CH 8 – 446.09375 MHz

**0 = OFF    1 = ON (marked at the button)**

**ATTENTION: Changerments are only stored, if the unit was disconnected from the power supply.**

- Close the metal cover at the backside of the unit again.
- Connect the unit with the power supply.

Receiving an incoming signal is automatically controlled by the Multi-Function-Box. For sending a message, press the PTT-switch. As long as the PTT-switch is pressed, there will be no possibility to receive any signal.

Only the person (driver or passenger) who is using the helmet speaker set with the marked cable, can use the PMR function completely. The user of the second helmet speaker can listen, but talking is not constantly possible.

**NOTE:** If you are using PMR and audio at the same time, the audio signal will be switched off automatically. After 15 seconds when the conversation is finished or there is nothing said, the audio signal will be automatically be switched on again.

#### 4.2.2. Telephone Function

After you have done the above described connections choose out of your cell phone menue the function that automatically accepts a phone call (like hands-free use in car). The referring symbol will be shown in the display. Choose the best volume level at your cell phone. When you get a call, it will automatically be accepted.

Only the person (driver or passenger) who is using the helmet speaker set with the marked cable can use the telephone function completely. The user of the second helmet speaker can listen, but talking is not constantly possible.

**NOTE:** If you are using telephone and audio at the same time, the audio signal will be switched off automatically. After 15 seconds when the conversation is finished or there is nothing said, the audio signal will be automatically be switched on again.

#### 4.2.3. Intercom Function

The intercom function is automatically controlled by the Multi-Function-Box.

NOTE: Intercom and audio signal volume are regulated both with the UP/Down switches (Up – left, Down – right, switch is located over the PTT switch).

#### 4.2.4. Audio Function

As soon as the audio cable is connected, driver and passenger can use the audio function.

NOTE: Volume regulation see point 4.2.3.

### 5. Technical Data

Necessary Power	12 V
Consumption	max. 770 mA
Good Conversation Quality (depends on helmet)	up to 140km/h – 86 miles/hour
Range (depends on the area)	ca. 3 km – ca. 1,8 miles
Connections for helmet head set	waterproof

#### PMR:

Power Output	500 mW
Sensitivity	0,22uV at 12 dB/Sinad
Channels	8
Modulation	max. +/- 2,5 KHz (F3E)

CE 0678(!)

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