Wireless Microphone Operating Manual

PTX-1000 (Transmit AUDIO (UHF), Receive TONE and DECODER (VHF)

1. FUN (Function) KEY
2. UP KEY
3. DOW KEY
4. In-use LED(Red)
5. Charge LED(Green and Red)
6. LCD DISPALY
7. Power Switch ON/OFF
8. Charge and Program Port
9. ANT
10. External Mic Jack
11. Inner Microphone
12. TX Inquiry Button

1. Power ON & OFF

    The power switch is used to turn on or turn off the device, after power on the radio, it will go to the RX standby & "Channel Lock" mode, the LCD display the "Key Lock" & "CH01" or last operating channel.
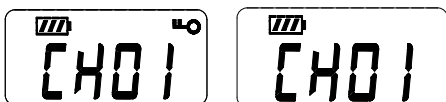

2. Channel Lock Function

    2.1 At "Channel Lock" mode, hold press the [Fun] + [Up] or press [Fun] + [Down] button 6 seconds, it will exit the "Channel Lock" function, the "key lock" icon of LCD display will be off.

    2.2 At "Channel Lock Off" mode, if 10 seconds don't press any button, it will go to the "Channel Lock" mode again.

    2.3 At "Channel Lock Off" mode, hold press [Fun] button more than 6 seconds, it will go the "Channel Lock" mode.

3. Choose Operating Channel

    Before choose a new operating channel, you have to exit the "Channel Lock" mode. Press [Up] or [Down] button to choose the desired channel from "CH01" to "CH99", hold press the [Up] or [Down] button to speed up the channel list, after release the button, if 10 seconds don't press any button, it will go to the [Channel Lock] mode automatically.

    Noted: In Transmit mode, the button will go to the [Channel Lock] function that do not allow to change the channel.

4．Device Status & LED indicator

4.1 Standby mode(RX)：The "In-use" LED off, all of the TX function are OFF.

4.2 Inquiry to "Transmit" & connecting status: The "In-use" LED is blinking each 0.2 second.

4.3 "Transmit ON" status: After connecting success, The "In-use" LED ON, it will transmit out the microphone voice signal.

5．Device Inquiry to "Transmit"

5.1 At standby status, press "TX Inquiry" button to transmit the inquiry code, it is in connecting status & wait RX to release the TX command.

5.2 When device receive the RX released code, it will go to the "Transmit ON" mode & transmit out the microphone voice signal.

5.3 When device wait 6 seconds & doesn't receive the released code from RX, it will re-send the inquiry code again, it will repeat this function 3 times, then go to the "standby" mode if doesn't receive the released code from RX.

5.4 When RX received the inquiry code from TX, RX will transmit the "released code" to TX & go to the connecting mode.

6. Charging & Low Battery Indicator

6.1 In low battery mode, the "Charging" Red LED will be blinking each 3 seconds, the LCD display "empty" icon will be blinking also.
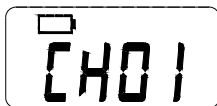
6.2 After connect the external charger from USB jack or drop into the charging device, the "CHARGE" LED will on, the LCD display "Battery Level" icon will be blinking. If at "Transmit ON" mode, the device will turn off the "Transmit" function automatically. If at power off mode, the LCD will display the "Battery Level" only.
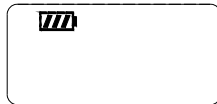
[Charging at power ON] [Charging at power OFF]

6.3 Charging finished: After battery charge fully, the LED indicator will change from "Red" to "Green".

7. LCD Back Light

Press any button will turn on the back light indicator, it will be "OFF" if 8 seconds don't press any button.

8. Battery Saving Function

At standby mode, if device doesn't receive any signal, it will go to the "Battery Save" mode, it will shut down & wake up every 500ms.

9. Out of Range Warning

9.1 At "Transmit Connecting" mode, if RX Unit doesn't receive TX signal more than 10 seconds, RX will send the "Out of Range code" to TX device.

9.2 When TX device received the code, the "In-use" LED willing be blinking every 0.8 second, the TX device will go to the standby mode after 60 seconds unless RX transmit the new command.
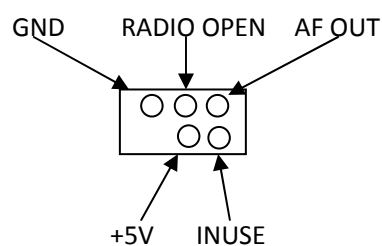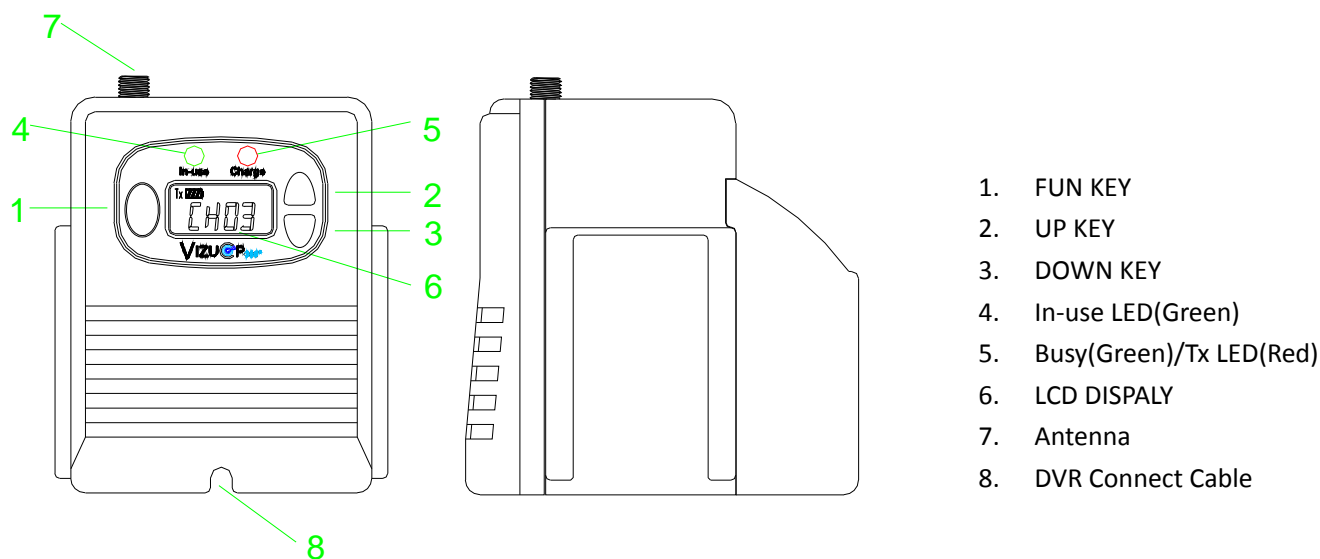
10. PC Program the parameter

8.1 All of the operating channel both TX & RX have to pre-program by PC before using.

8.2 There are three microphone levels is able to choose by PC before using, the default setting is "Hi".

8.3 The TOT (time out timer) is used to limit the TX transmit time, it has to program before using.

PRX-1000 (Transmit TONE (VHF), Receive AUDIO And TONE DECODER (UHF)

1. FUN KEY
2. UP KEY
3. DOWN KEY
4. In-use LED(Green)
5. Busy(Green)/Tx LED(Red)
6. LCD DISPALY
7. Antenna
8. DVR Connect Cable

DVR connector pin defined

Pin	Name	Description
1	DC+5V	Power supply DC 5V
2	Ground	
3	Audio output	100mV Line level
4	In use	In use = Low standby = Hi
5	Radio open	REC = Low Live = High

1. Power ON & OFF

The power switch is used to turn on or turn off the device, after power on the radio, it will go to the RX standby & "Channel Lock" mode, the LCD display the "Key Lock" & "CH01" or last operating channel.

2. Channel Lock Function

   2.1 At "Channel Lock" mode, hold press the [Fun] + [Up] or press [Fun] + [Down] button 6 seconds, it will exit the "Channel Lock" function, the "key lock" icon of LCD display will be off.

   2.2 At "Channel Lock Off" mode, if 10 seconds don't press any button, it will go to the "Channel Lock" mode again.

   2.3 At "Channel Lock Off" mode, hold press [Fun] button more than 6 seconds, it will go the "Channel Lock" mode.

3. Choose Operating Channel

   Before choose a new operating channel, you have to exit the "Channel Lock" mode. Press [Up] or [Down] button to choose the desired channel from "CH01" to "CH99", hold press the [Up] or [Down] button to speed up the channel list, after release the button, if 10 seconds don't press any button, it will go to the [Channel Lock] mode automatically.

4. Device Status & LED indicator

   4.1 Standby mode(RX)：The "In-use" LED off, the device mute the "Audio Out" pin, "In-use" pin is "high" level.

   4.2 Signal connecting status: When device receive TX inquiry signal, the "Busy/Tx" LED is blinking each 0.2 second, "In-use" pin is high level.

   4.3 "Transmit ON" status: After connecting success, the "In-use" LED ON, "Busy/TX" green LED ON, the "Audio Out" pin is un-mute that will send out the voice signal, the "In-use" pin is "Low" level & "Radio Open" pin goes "Low".

   4.4 Device dis-connecting status: When "Radio Open" pin change from "Low" to "High", the "Busy/Tx" LED change from Red to Green.

   4.5 Device "dis-connect" status, the "In-use" LED off, "Busy/TX" LED off, the "In-use" pin goes high, "Radio Open" pin goes "high" also, the "Audio Out" pin goes to mute.

5. RX Connect Command

   5.1 At standby status, "Radio Open" pin change from "High" to "Low", RX will send the "Transmit" code to TX device, it goes to the "connecting" status.

   5.2 When RX received the confirmed code from TX device, RX device goes to the "Transmit ON" status.

   5.3 If RX doesn't received the confirmed code from TX within 6 seconds, RX will re-send the "Transmit" code that be repeat 3 times, then the "Radio Open" pin could change to "High" & device go to the "standby" mode.

6. RX Dis-connect Command

   6.1 At "Transmit ON" status, "Radio Open" pin change from "Low" to "High", The RX device will send the "Transmit OFF" code to TX device, it will go to the dis-connecting status.

   6.2 When RX received the confirmed code from TX, it will go to the standby mode.

   6.3 If RX do not received the confirmed code from TX within 6 seconds, RX will re-send the "Transmit OFF" code that be repeat 3 times, then goes to standby mode.

7. LCD Back Light

   Press any button will turn on the back light indicator, it will be "OFF" if 8 seconds don't press any button.

8. PC Program the parameter

   8.1 All of the operating channel both TX & RX have to pre-program by PC before using.

   8.2 There are three Audio output levels is able to choose by PC before using, the default setting is "Mid".

   FCC Caution:

   Any Changes or modifications not expressly approved by the party responsible for compliance could void the

user's authority to operate the equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, Including interference that may cause undesired operation.

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.

Specific Absorption Rate (SAR) information (For TX Unit)

This device has been tested and meets the FCC RF exposure guidelines. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

FCC Radiation Exposure Statement (For RX Unit)

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Compliance with RF Exposure Standards

IVS, Inc. (AngelTrax Video Surveillance)'s 2-way radio complies with the following RF energy exposure standards and guidelines:

· United States Federal Communications Commission, Code of Federal Regulations; 47

CFR §§ 1.1307, 1.1310 and 2.1093

• American National Standards Institute (ANSI) / Institute of Electrical and Electronic

Engineers (IEEE) C95. 1-1992

• Institute of Electrical and Electronic Engineers (IEEE) C95.1-1999 Edition

RF Exposure Compliance and Control Guidelines and

Operating Instructions

To control your exposure and ensure compliance with the occupational/controlled environment exposure limits always adhere to the following procedures.

Guidelines:

• Do not remove the RF Exposure Label from the device.

• User awareness instructions should accompany device when transferred to other users.

• Do not use this device if the operational requirements described herein are not met.

Operating Instructions:

• Transmit no more than the rated duty factor of 50% of the time. To transmit (talk), push the Push-To-Talk (PTT) button. To receive calls, release the PTT button. Transmitting 50 % of the time, or less, is important because this radio generates measurable RF energy exposure only when transmitting (in terms of measuring for standards compliance).

• Hold the radio in a vertical position in front of face with the microphone (and the other parts of the radio, including the antenna) at least one inch (2.5 cm) away from the nose. Keeping the radio at the proper distance is important because RF exposures decrease with distance from the antenna. Antenna should be kept away from eyes.