



Taiwan Gomet Technology

GWD900 Weather Resistance Wireless Microphone System Owner's Manual

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General Specification

Modulation Mode: Bi-Directional DSS (Digital Spread Spectrum)
Frequency: 904 MHz~ 926MHz
Handset RF Power Output: 17dBm (Peak).
Base Station RF Power Output: 15dBm (Peak).
Operating Range: 1000 ft.
Battery: 3.6V Rechargeable Li-Ion battery (Handset)
12Vdc from Car (Base Station)
Air Time: 12 ~ 14 hours of continuous operation
Standby Time: 12 ~ 15 days
Microphone: Internal microphone without lavalier
Channels: 20 Channels with Automatic Synchronization

This GWD900T is protected against water splashes and dust.

GWD900R, the base station will transmit a signal to turn ON and shut OFF the GWD900T handset Microphone when recording is activated or deactivated through the camcorder.

GWD900T handset is also able to trigger camcorder by GWD900R base station to activate digital video recording.

Any GWD900T handset will work with any system that is equipped with GWD900R base station - Automatic Synchronization

Build-in Programmable Function Button, Panic Button & Mute Button

LCD indicators are used for status on mute, ON/OFF, signal, battery and panic functions.

GWD900T/R will automatically detect radio frequency noises, channel conflicts and cross talks with as many as 20 vehicles in close proximity, and perform auto switch to ensure clear communication and recording.



Hardware Overview

GWD900T
Handset



GWD900R
Base Station

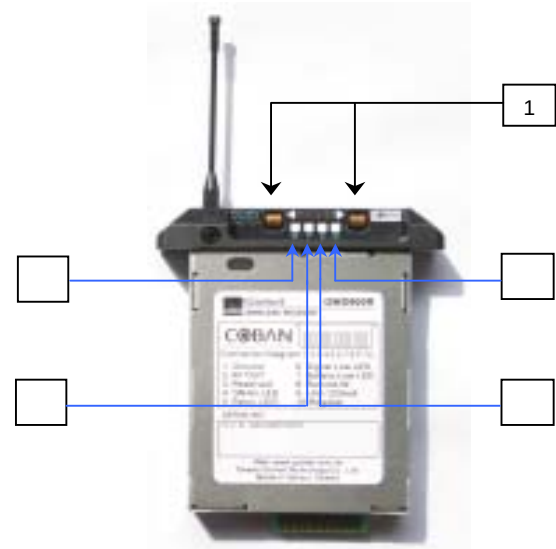


GWDCHG01 Charger
AC Wall Charger Cable & DC In-Car Charger Cable



System Overview

Base Station - GWD900R





System Overview

Base Station - GWD900R

1

Receiver's Register Contact

The register contact is used to synchronize the frequency of the receiver and the wireless microphone.

2

Green LED (Microphone)

Green LED OFF for Standby Mode
Green LED ON for Recording Mode
Green LED OFF for Function ON (Mute ON) under Recording Mode

3

Red LED (Panic)

Red LED OFF for Panic Mode OFF
Red LED ON for Panic Mode ON

4

Yellow LED (Signal level)

Yellow LED OFF for Strong Signal
Yellow LED ON for Signal is Marginal or Weak

5

Red LED (Battery)

Red LED OFF for Full Battery
Red LED ON for Low Battery with 1 Minute 1 time Buzzer Warning Tone



System Overview

Base Station - GWD900R



Antenna

To prevent damage, antenna for the Base Station is packaged separately. Remove the antenna from the package and tighten the antenna to the Base Station. Do not try to lengthen, shorten, or temper with the antennas, which might result in damage of the audio system and may violate FCC regulation

Power Connection

The Base Station has no ON / OFF switch. The Transceiver will become energized in standby mode whenever the system is ON.

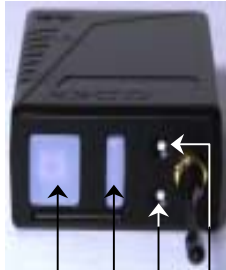
Register Contact

The register contact is used to synchronize the frequency of the Base Station and Handset.



System Overview

Handset - GWD900T



LED Indicators (Within the Button 1 &2)

Green LED (Within Button 2)

Green LED OFF for *Standby Mode*
Green LED ON for *Recording Mode*
Green LED Blinking for *Low Battery*
(With every Minute Buzzer Warning Tone)

Red LED (Within Button 1)

Red LED OFF for *Panic Mode OFF*
Red LED ON for *Panic Mode ON*
Red LED Blinking for *Mute (Function)*
(With every 4 Sec. Buzzer Warning Tone)

Yellow LED (Within Button 2)

Yellow LED OFF for *Strong Signal*
Yellow LED ON for *Signal is Marginal or Weak*

1

Button One:

Audio ON (Press Button 1 once)

This action will initiate the wireless microphone from standby mode to recording mode. To stop recording, press the stop button on the Coban VMDT monitor module. This is to prevent accidental shut off of the wireless microphone recording.

Panic ON (Press and hold Button1 for 3 second)

When Panic Button is held down for 3 seconds while the wireless microphone is on the standby or recording mode, the wireless microphone will automatically send a panic signal to



System Overview

Handset - GWD900T

the Coban VMDT system; the signal will be relayed back to the Base Station for process. *(This function is only available if the wireless communication is established)*

The Panic Mode may be deactivated by holding down the Panic button for another 3 seconds.

2

Button Two: **Programmable Button**

Mute ON (Press Button 2 once During Recording Mode)

This action will mute the audio recording, however it will not stop the video recording. Press Button Two again to Un-Mute.

Warning Features (Press Button 2 During Standby Mode)

Warning cycle: Tone, Vibrate, Tone & Vibrate, and LED Only
(Press one time) for Tone only
(Press two times) for Vibration only
(Press three times) for Tone & Vibration together
(Press four times) for LED warning only
(Press five times) repeat warning cycle again to Tone only

3

Buzzer Produce Warning Tone

4

Microphone Audio Input



System Overview

Handset - GWD900T



Battery Selection and Installation

The GWD900T is powered by a rechargeable lithium-ion cellular phone battery. It is lightweight and environmental friendly. The handset housing is designed to prevent incorrect installation of the battery. Do not force the battery in to the housing. Reversed batteries may cause damage to the wireless microphone. The battery compartment is located at the bottom of the wireless microphone. Slide off the battery cover and remove the silicon seal, at this point the battery is free to slide out.



System Overview

Handset - GWD900T



Antenna

The GWD900T Handset includes a flexible antenna, which is package separately to prevent damage. Remove the antenna from the package and tighten the antenna to the Handset. Do not attempt to remove, replace or change the length of the antenna, which might result in damage of the audio system and may violate FCC regulation



Register Contact

The Handset contact is used to synchronize the frequency of the wireless microphone and the receiver. It is also the contact for the battery charger.



Operating Procedure

The GWD900T is designed to eliminate unnecessary hassle of pairing a receiver with a particular wireless microphone. With the latest technologies, the GWD900T is able to synchronize the frequency of any GWD900T Handset with any GWD900R Base Station.

Just follow these few simple instructions to ensure maximum performance:

1. Check out any GWD900T handset and make sure it is fully charged before operation.
2. Please be sure the System is ON before proceeds any further.
3. Slide the Handset contact directly on top of the Base Station register contact until a confirmation tone has sound. This indicates the register contact has synchronized the frequency of the Base Station and the Handset is now on standby



Operating Procedure

mode and is ready for use.

4. Please only synchronize one Handset to one Base Station.
5. There are two methods to activate recording on the wireless microphone:
 - a. Press the ON or Panic Button once on the wireless microphone for recording.
 - b. Activate video recording at the System
This action will automatically trigger wireless microphone recording.
6. To prevent accidental audio shut off. The only way to return Handset to standby mode from recording mode is to stop the video recording from the System.
7. During recording mode, if the warning sounds and the yellow LED flash, this means the signal is marginal or weak. At this time, please step closer to the Base Station or reposition the Handset until the warning stops. However, if the warning persists and exceeds 30 seconds, the Handset will automatically shut off and return to standby mode. If user returns within the signal range again while the video is still recording, the Base Station will re-initiate the wireless microphone automatically.
8. For charging, simply place the wireless microphone to the charger (GWDCHG01) and leave it charging for at lease 6 (six) to maximize battery capacity.



Federal Communications Commission (FCC) Statement

You are cautioned that changes or modifications not expressly approved by the part responsible for compliance could void the user's authority to operate the equipment.

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.

You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.



FCC RF Radiation Exposure Statement:

1. This Transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
2. This equipment (Base Station)complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

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