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HT-COMALERT-KIT
Wireless Mic Receiver with Wireless Microphone & Charging Station

USER MANUAL

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Introduction

OVERVIEW

The HT-COMALERT-KIT, when combined with the HT-OSIRIS-DSP, is a cutting-edge solution for enhancing communication and safety in conference rooms, classrooms, and other settings requiring microphone systems. This innovative system includes a wearable wireless microphone with a panic button (HT-OSIRIS-DSP needed for panic button feature), a wireless receiver, and a charging station. The HT-COMALERT-KIT can also be used standalone, connecting it directly into an amplifier or other digital signal processor system.

Designed for seamless integration and user-friendly operation, the HT-COMALERT system ensures clear and reliable audio reinforcement, while its advanced digital safety features provide an added layer of security. The wearable wireless microphone allows presenters and speakers to move freely while maintaining excellent audio quality. The built-in panic button offers instant access to emergency alerts, enhancing personal safety in critical situations, complete with silent alarm compliant with Alyssa's Law.

The system's audio DSP automated controller offers sophisticated mixing and DSP control of all connected microphones, ensuring optimal audio performance. Additionally, it can send customized safety signal messages to a home office and broadcast alert messages to safety and emergency systems, facilitating rapid response and communication during emergencies.

Whether for educational environments, corporate settings, or any space requiring robust audio and safety solutions, the HT-COMALERT system is designed to deliver exceptional performance and peace of mind. Experience the perfect blend of audio clarity and advanced safety with the HT-COMALERT Audio Reinforcement and Digital Safety System.

WIRELESS MICROPHONE FEATURES (HT-COMALERT-WM)

- Wireless mic is transmitted on two different channels, automatically.
- Built-in rechargeable battery provides 8 hours of continuous use and can be re-charged in one hour.
- Microphone levels are controlled by the local microphone volume buttons.
- The innovative magnetic lanyard design makes wearing a wireless microphone more friendly and convenient.
- Wireless range over 100ft, line of sight.
- Built-in automatic range alarm notifies users when the microphone is moved outside of the 100ft line-of-sight radius.
- Wireless frequency is 2.4GHz
- Low audio delay (<50 ms)
- Supports noise reduction and echo cancellation

WIRELESS RECEIVER FEATURES (HT-COMALERT-WR)

- When used with the HT-OSIRIS-DSP, power to the receiver is from the DSP controller over a USB-C cable
- Can simultaneously receive 2 different wireless microphones after each one is paired to the receiver.
- Provides analog outputs from either microphone, or a mix of both microphones.
- S.O.S. message is transmitted over USB-C to the HT-OSIRIS-DSP controller.

CHARGING BASE STAND FEATURES (HT-COMALERT-BASE)

- Can charge two microphones at the same time.
- Has an integrated USB-C Charging Cable that requires a minimum of a 10W USB-C charger.
- Indicator on charger shows status of the microphones
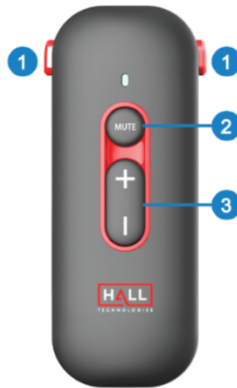- Metal base holds the charger at the correct angle.

Package Contents

- 1 x HT-COMALERT-WM Wireless Microphone

- 1 x HT-COMALERT-WR Wireless Receiver

- 1 x HT-COMALERT-BASE Charging Base Station

- 1 x USB-C Cable for connection to HT-OSIRIS-DSP

- 1 x USB-C Cable and charging block for charging Base Station

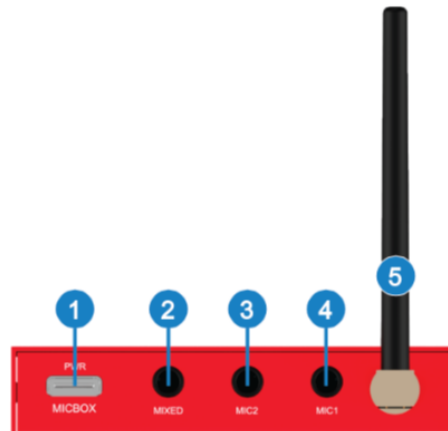- 1 x Magnetic Lanyard with Safety Cord

Panel Description

HT-COMALERT-WM

ID	Name	Description
1	S.O.S.	Press and hold side S.O.S. buttons simultaneously for 3 seconds to trigger S.O.S. feature in the HT-OSIRIS-DSP.
2	MUTE	Button used to mute/unmute microphone volume.
3	+ / -	Buttons used to increase/decrease microphone volume.

HT-COMALERT-WR

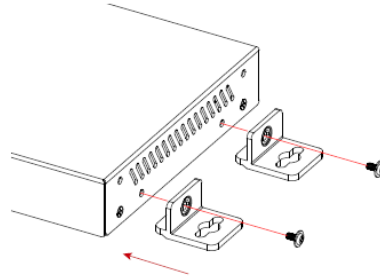| ID	Name	Description
1	USB-C	Connect directly to a USB-C charging block, or to the HT-OSIRIS-DSP for power. Also, when connected to HT-OSIRIS-DSP, audio signals are transmitted over USB-C cable.
2	MIXED	Line-level output with mixed microphone signals.
3	MIC2	Line-level output for microphone #2
4	MIC1	Line-level output for microphone #1
5	ANTENNA	Microphone antenna for receiving the wireless signal.

Installation

INSTALLATION

Note: Before installation, please ensure the device is disconnected from the power source.

1. Position and install the mounting brackets (two at each side) using the mounting screws provided.

2. Repeat above step for the other side of the device.
3. Attach the brackets to the desired location.

Application Wiring

There are various different application methods with wiring examples; two are shown below.

INTEGRATION WITH AMP-7040 AND SPK-IC6

INTEGRATION WITH DISCOVERY, HT-CAM-4K-DUAL & HT-OSIRIS-DSP

Microphone Use

PAIRING MICROPHONES

1. Connect the HT-COMALERT-WM to power using either a USB power block or powered by the HT-OSIRIS-DSP, using the included USB-C to USB-C cable.
2. On the HT-COMALERT-WR, press and hold the pairing button for more than 3 seconds to enter pairing status. The LED will go green with fast flashing on the receiver.
3. On the HT-COMALERT-WM, Press and hold the volume up and down buttons at the same time for more than 3 seconds to enter pairing status. The LED on the microphone will turn green with fast flashing.
4. When successfully paired, the status LED on the receiver will be solid green.

CONNECTING DIRECTLY TO AMPLIFIER

1. Connect the HT-COMALERT-WM to power using a USB power block and using the included USB-C to USB-C cable.
2. Connect each microphone's individual line-level output, or the mix microphone line-level output, directly to the amplifier's line-level input.
3. Adjust volume using either the volume buttons on the microphone, or at the amplifier.

USING THE S.O.S. FEATURE

1. To trigger the S.O.S. feature, hold the side buttons at the same time for more than 3 seconds. When triggered, the alarm status will be red with fast flashing.
2. To turn off the trigger, either:
   a. Hold the side buttons again at the same time for more than 3 seconds to return to previous status.
   b. Return the wireless microphone to the charging base station.

MICROPHONES OUT OF RANGE

1. When a wireless microphone is taken outside of the rated 100ft line-of-sight range, the S.O.S. alarm will be triggered.
2. Return the wireless microphone to the area within the range to turn off the alarm.

CHARGING MICROPHONES

1. Using the included USB-C charging cable and block, connect cable to the USB-C port on the back of the HT-COMALERT-BASE.
2. Set the wireless microphone on either charging port and ensure it is sitting properly.
3. When charging, the wireless microphone's status LED will be orange.
4. When charging is complete and full, the status LED will turn off.

MICROPHONE LANYARD

1. The lanyard and microphone are both magnetic. Simply press the two together to connect the microphone to the lanyard.
2. Adjust the lanyard around your neck with the goal of bringing the microphone as close to the presenter's mouth as possible.
   a. NOTE: the lanyard has a break-away safety cord.

Specifications

Wireless System	
Wireless Frequency	2.4GHz
Number of RF Frequency Bands	2402M ~ 2480M, 1M per channel
RF Channel Scanning	Auto Scan
Diversity	Frequency division system
Wireless Max Operating Range (Point-to-Point)	100ft (30m) line-of-sight
Dynamic Range	100 dB
Signal-to-Noise Ratio	>58 dB
Max Transmitters per Band	2
Built-in Recorder	No
USB Support	USB 2.0 Full Speed, Max 12 Mbps

General	
Operating Temperature	0°C ~ 50°C (32°F to 122°F), 10% to 90%, non-condensing
Storage Temperature	-20°C ~ 70°C (-4°F to 158°F), 10% to 90%, non-condensing
Certifications	FCC (Class B), CE (Class B), RoHS (CE), ICES-003 62368-1
Warranty	3 Years
WM Dimension (W x H x D)	2.57" x 1.12" x 0.58" (65.3mm x 28.4mm x 14.7mm)
WM Net Weight	0.11 lbs. (0.05kg)
WR Dimension (W x H x D)	2.83" x 0.51" x 2.09" (72mm x 13mm x 53mm)
WM Net Weight	0.22 lbs. (0.1kg)

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