Microphone Hub

COM-MIC-HUB

WyreStorm.

Quickstart Guide

💡 WyreStorm recommends reading through this document in its entirety to become familiar with the product's features prior to starting the installation process.
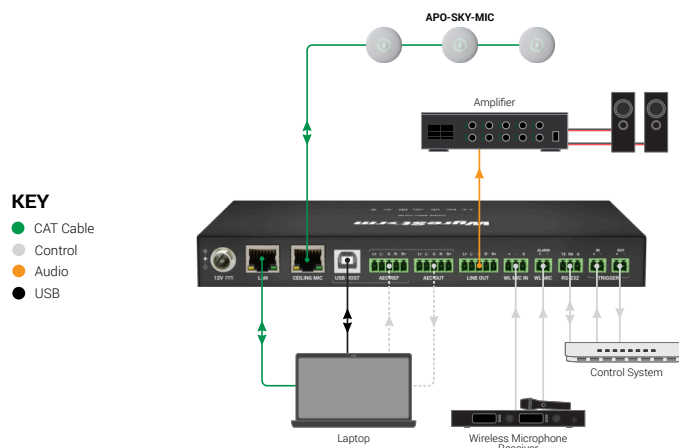
⚠️ **IMPORTANT! Installation Requirements**

- Visit the product page to download the latest firmware, document version, additional documentation, and configuration tools.
- Read through the Wiring and Connections section for important wiring guidelines before creating or choosing pre-made cables.
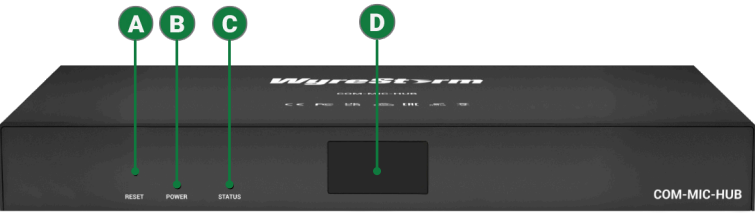
In the Box

1x COM-MIC-HUB
1x DC 12V 2A Power Supply (US/EU/UK/AU)
3x 5-pin Phoenix Male Connector
2x 3-pin Phoenix Male Connector
3x 2-pin Phoenix Male Connector
4x Mounting Brackets
1x Quickstart Guide (This Document)
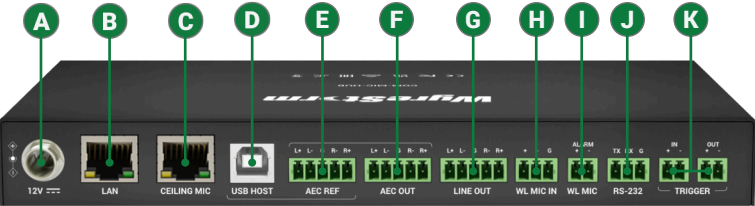
Basic Wiring Diagram

KEY
- 🟢 CAT Cable
- ⚪ Control
- 🟠 Audio
- ⚫ USB

COM-MIC-HUB (Front)

A	RESET	Use a PIN to reset to factory settings
B	Power LED	**Solid:** The unit is powered On **Off:** The unit is powered Off
C	Status LED	**On:** The device is working properly. **Blinking:** The device is being upgraded / The device is reset to factory defaults. **Off:** The device is powered off.
D	LCD Display	Displays the device's IP address and firmware version.

COM-MIC-HUB (Rear)

A	Power Input	12V 2A Screw Down Jack
B	LAN	8-pin RJ-45 female Connect for Web UI and Telnet control
C	Ceiling Mic	8-pin RJ-45 female Connect to one or multiple cascading ceiling microphones. **Note:** The device allows up to five microphones to be cascaded together.
D	USB Host	USB 2.0
E	AEC REF	5-pin Phoenix: Connect to a audio device for receiving reference signal.
F	AEC OUT	5-pin Phoenix: Connect to a audio device for transmitting reference signal.
G	LINE OUT	5-pin Phoenix: Connect to audio amplifier
H	WL MIC IN	3-pin Phoenix: Connect to wireless microphone for capturing sound
I	WL MIC	2-pin Phoenix: Connect to wireless microphone for alarm signal input
J	RS-232	3-pin Phoenix: Bidirectional serial input
K	TRIGGER IN/OUT	2-pin Phoenix: Input and Output port for signal to and from a third-party control system.

Note: "AEC REF" and **"AEC OUT"** are designed to be used together. You can select either **AEC REF** & **AEC OUT** ports or **USB HOST** port to connect to the PC. When both are connected to the PC, only one option is available.

Note: When the **"WL MIC (ALARM)"** detects an alarm signal, the device will show an alarm on the web UI, and can send the alarm to an external control system through the LAN, RS-232 or TRIGGER OUT port. The **"WL MIC (ALARM)"** is designed to be used in conjunction with **"WL MIC IN"**.
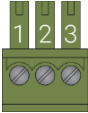
Wiring and Connections

WyreStorm recommends that all wiring for the installation is run and terminated prior to making connections to the switcher. Read through this section in it's entirety before running or terminating the wires to ensure proper operation and to avoid damaging equipment.

⚠ **IMPORTANT! Wiring Guidelines**

- The use of patch panels, wall plates, cable extenders, kinks in cables, and electrical or environmental interference will have an adverse effect on signal transmission which may limit performance. Steps should be taken to minimize or remove these factors completely during installation for best results.
- WyreStorm recommends using pre-terminated USB cables due to the complexity of these connector types. Using pre-terminated cables will ensure that these connections are accurate and will not interfere with the performance of the product.

RS-232 Wiring

The COM-MIC-HUB uses a 3-pin RS-232 with no hardware flow control. Most control systems and computers are DTE where pin 2 is RX, this can vary from device to device. Refer to the documentation for the connected device for pin functionally to ensure that the correct connections can be made.

WyreStorm Connector			3rd Party Device
Pin 1	TX (Transmit)	---> To --->	RX (Receive)
Pin 2	RX (Receive)	---> To --->	TX (Transmit)
Pin 3	G (Ground)	---> To --->	G (Ground)

Troubleshooting

No Audio
- Verify that power is being supplied to the device.
- Verify that all connections are not loose and are functioning properly.

No or Intermittent 3rd party Device Control
- Verify that the RS-232 cables are properly terminated following the Wiring and Connections section.

💡 **Troubleshooting Tips:**
- WyreStorm recommends using a cable tester or connecting the cable to other devices to verify functionality.

Specifications

Audio	
Host	1x USB-B Female | connect to PC host

Audio Input Port	
Ceiling Mic	1x RJ45 | connect and power the ceiling microphone
AEC Ref	1x 5-pin Phoenix Female | connect to PC or other device | balanced | Left and Right channels input
WL MIC in	1x 3-pin Phoenix Female | connect to Wireless Mic, Balanced Input
WL MIC (Alarm)	1x 2-pin Phoenix Female | alarm signal

Audio Output Port	
AEC Out	1x 5-pin Phoenix Female | connect to PC or other device | balanced | Left and Right channels output
Line Out	1x 5-pin Phoenix Female | connect to AMP | balanced | left and right channels output

Communication and Control	
Ethernet	1x LAN: RJ-45 Female | Web UI | Matrix Control and Ethernet | Telnet commands supported
RS-232	1x RS-232: 3-pin Phoenix Female Routable RS-232 Device Control
Trigger In	1x 2-pin Phoenix Female | Connect to external alarm system | Contact closure or voltage input with 3.3V or 5V
Trigger Out	1x 2-pin Phoenix Female | Connect to external alarm system | Contact closure or voltage input with 5V

Power	
Power Supply	12V DC 2A

Environmental	
Operating Temperature	0 to + 45°C (32 to + 113 °F), 10% to 90%, non-condensing
Storage Temperature	-20 to +70°C (-4 to + 158 °F), 10% to 90%, non-condensing

Dimensions	
Height	25mm / 0.98in
Width	215mm / 8.46in
Depth	120mm/ 4.72in

Regulatory	
Safety and Emission	CE | FCC | RoHS | RCM | EAC | UKCA

Note: WyreStorm reserves the right to change product specification, appearance or dimensions of this product at any time without prior notice.

Warranty Information
WyreStorm Technologies LLC warrants that its products to be free from defects in material and workmanship under normal use for a period of five (5) years from the date of purchase. Refer to the Product Warranty page on wyrestorm.com for more details on our limited product warranty.