Specifications

	APO-100-UC	APO-200-UC	APO-210-UC
Audio and Video			
Video Resolutions (Max)	USB-A Display Link 1920x1080p @60Hz 8bit Native USB-C 3840x2160 @30Hz 8bit 4:4:4	USB-A Display Link 1920x1080p @60Hz 8bit Wireless Casting 1920x1080p @30Hz 8bit Native USB-C & HDMI 3840x2160 @30Hz 8bit 4:4:4 HDMI 15m	USB-A Display Link 1920x1080p @60Hz 8bit Wireless Casting 1920x1080p @30Hz 8bit Native USB-C & HDMI 3840x2160 @30Hz 8bit 4:4:4 HDMI: 15m HDBaseT: 40m/13ft Cat6 or higher
Inputs	1x USB-C 1x USB 3.0 Female Device Port	1x USB-C 1x HDMI: 19-pin type A 1x USB 3.0 Female Device Port 1x USB 2.0 Mini USB-B Host Port (for HDMI input devices)	1x USB-C 1x HDMI: 19-pin type A 1x USB 3.0 Female Device Port 1x USB 2.0 Mini USB-B Host Port (for HDMI input devices)
Outputs	1x HDMI: 19-pin type A	1x HDMI: 19-pin type A	1x HDMI: 19-pin type A 1x HDBT: 8-pin RJ-45 Female
Supported Standards	RGB | USB		
Maximum Pixel Clock	300Mhz		
Speakerphone			
Microphone	4x omni-directional mic array with echo cancellation Pick-up Range: 5m/16.4ft Frequency Response: 100Hz ~ 20KHz Sample Rate: 16 bit 48KHz		
Speaker	10 watts 78 dB @ 1.5m/4.9ft Sample Rate: 24bit 48Khz		
Control	Capacitive touch volume +/- and microphone mute buttons	Capacitive touch volume +/- and microphone mute buttons | Telnet API	
Communication and Control			
HDMI	NA	HDMI 2.0 | HDCP 2.2 | EDID | CEC	
HDBaseT	NA	NA	Class B Spec 2.0
USB	USB-C: USB 3.2 Gen 1 Max bandwidth: 5Gbps (60w max charging) USB-A 3.0 | Max Bandwidth 5Gbps	USB-C: USB 3.2 Gen 1 | Max Bandwidth: 5Gbps (60w max charging) USB-A 3.0 | Max Bandwidth 5Gbps USB-B 2.0 Mini: 480Mbps (USB over HDBT is limited to 190Mbps)	
LAN	NA	1 x 8-pin RJ45	
RS-232	NA	NA	Passthrough over HDBaseT (requires compatible HDBaseT receiver)
Power			
Power Supply	24V DC 5A		
Power Consumption	Max: 10w Max with USB-C charging: 70w	Max: 20w Max with USB-C charging: 80w	
Environmental			
Operating Temperature	32°F ~ 113°F (0°C ~ 45°C), 10% ~ 90%, non-condensing		
Storage Temperature	-4°F to ~ 158°F (-20°C ~ +70°C), 10% ~ 90%, non-condensing		
Maximum BTU	Standard: 34 BTU/hr	Standard: 68 BTU/hr	
Dimensions and Weight			
Length x Width x Height	Corner to corner (widest point): 266.7mm/10.5in Height: 106.6mm/4.2in		
Weight	1.08kg/2.4lbs	1.47kg/3.25lbs	
Regulatory			
Safety and Emission	CE | FCC | RoHS | RCM | EAC		

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

Apollo Series Integrated Conference Speakerphone and Presentation Switcher

APO-100-UC | APO-200-UC | APO-210-UC

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.
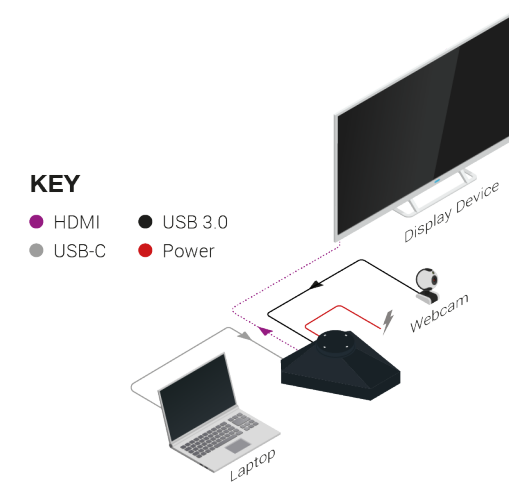
4K UHD | HDBT | HDMI | HDCP 2.2 | SUPERSPEED USB | Teams | ZOOM

⚠️ **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 premade cables.

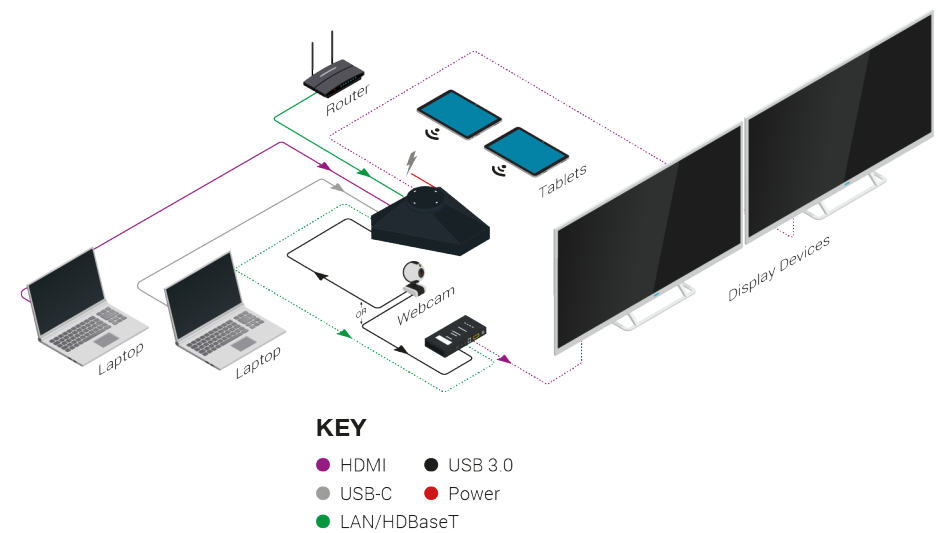**In the Box**
1x Apollo Speakerphone
1x 24V DC 5A PSU (US/UK/EU/AU)
1x 1.5m USB-C cable (with USB-A adapter)
1x 2m Mini USB-B 2.0 cable (200 and 210 models only)
1x Quickstart Guide (this document)

APO-100-UC Basic Wiring Diagram

KEY
- ● HDMI
- ● USB-C
- ● USB 3.0
- ● Power

APO-200/210-UC Basic Wiring Diagram

KEY
- ● HDMI
- ● USB-C
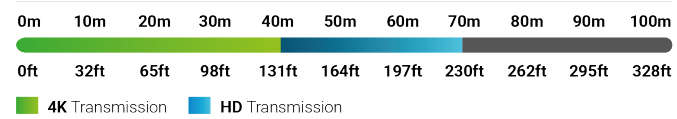- ● USB 3.0
- ● Power
- ● LAN/HDBaseT

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 the use of shielded category cable to minimize signal noise and interference.
- WyreStorm recommends using pre-terminated HDMI 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.
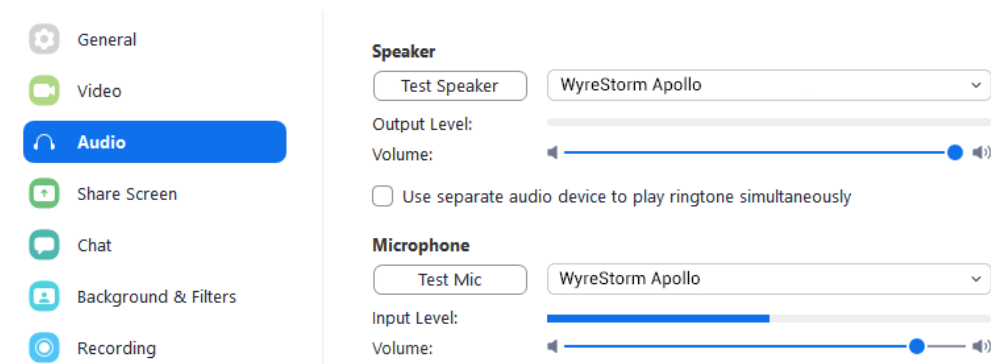
Cat6 Cable Performance Guide

0m	10m	20m	30m	40m	50m	60m	70m	80m	90m	100m
0ft	32ft	65ft	98ft	131ft	164ft	197ft	230ft	262ft	295ft	328ft

🟩 **4K** Transmission   🟦 **HD** Transmission

WyreStorm recommends the use of shielded cable to minimize signal noise and interference

*Only applicable on the APO-210-UC
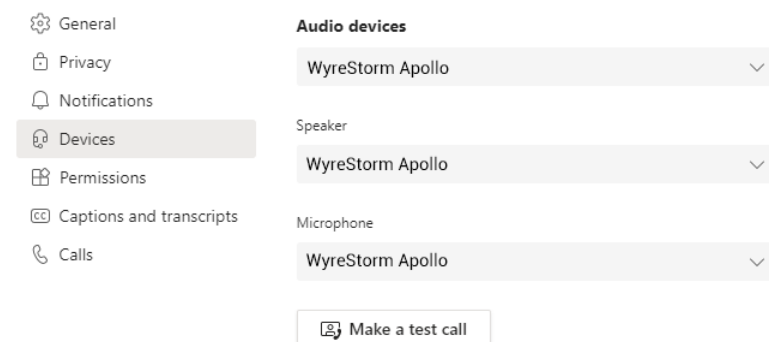
Software Device Setup

Connecting To Zoom

To connect the WyreStorm Apollo device to your Zoom software, first navigate to your settings pane which can be found by clicking the gear icon in the top right hand corner, then click on the audio tab. Here you can change both the Speaker and Microphone device by using the dropdown menus. Select WyreStorm Apollo under all options.

| General |
| Video |
| **Audio** |
| Share Screen |
| Chat |
| Background & Filters |
| Recording |

Speaker
Test Speaker | WyreStorm Apollo
Output Level:
Volume:
☐ Use separate audio device to play ringtone simultaneously

Microphone
Test Mic | WyreStorm Apollo
Input Level:
Volume:

Connecting To Microsoft Teams

To connect the WyreStorm Apollo device to your Microsoft Teams software, first navigate to your settings pane which can be found by clicking on your display image in the top right hand corner, then click on the devices tab. Here you can change both the Speaker and Microphone device by using the dropdown menus. Select WyreStorm Apollo under all options.

Settings

| General |
| Privacy |
| Notifications |
| Devices |
| Permissions |
| Captions and transcripts |
| Calls |

Audio devices
WyreStorm Apollo

Speaker
WyreStorm Apollo

Microphone
WyreStorm Apollo

Make a test call

Setup and Configuration

Accessing the Web UI

By default the IP address is set to DHCP and will pull the IP address from a connected DHCP server. Should the network not contain a DHCP server the IP address will be generated based on the units mac address. The above operation will occur unless the IP Address setting in the web UI is set to static.

1. Connect the Apollo to the same network as a PC.
2. Using a 3rd party network scanner, scan the network for the IP address of the Apollo.
3. Open a web browser and enter the IP Address of the Apollo.
4. Enter the password for the matrix. Default Password: admin

IP Address Notes

- WyreStorm recommends changing the password for installer login to avoid any unwanted changes being made to the Apollo configuration.
- Web UI is only applicable on the APO-200-UC and APO-210-UC models

Default IP Address	DHCP	Default IP Port	23

Troubleshooting

No or Poor Quality Picture (snow or noisy image)

- Verify that WyreStorm Apollo has been selected in your software's device settings
- Verify that A/V mute is not enabled. Check Web UI for status on the selected output
- Verify that the device is not in standby
- Verify that power is being supplied to the device
- Verify that all HDMI and HDBaseT connections are not loose and are functioning properly
- Verify that the HDBaseT cable is properly terminated following EIA568B standard
- Verify that the output resolution of the source and display is supported by this device
- If transmitting 4K, verify that the HDMI cables used are 4K rated

No Audio Input or Output

- Verify that WyreStorm Apollo has been selected in your software's audio input/output settings
- Verify that the volume on your PC/Mac is not muted
- Verify that the microphone settings on your PC/Mac are not muted

💡 **Troubleshooting Tips:**

- WyreStorm recommends using a cable tester or connecting the cable to other devices to verify functionality.

FC

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.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

The distance between user and products should be no less than 20cm.

CE

We declare that this device is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU. The power adapter shall be installed near the equipment and shall be easily accessible.

Manufacturer: Shen Zhen Proitav Technology Co.,Ltd
Address: 301-401, Building 16, Hejing Industrial Park, No.87, Hexiu west Road,Heping Community, Fuhai street, Baoan District, Shenzhen, China

Accessory: USB-C cable
Manufacturer: Dongguan YIZE Electronics C0., Ltd.
Address: 27 Wusha Haibin Road, Chang'an Town, Dongguan City, Guangdong, China

Accessory: Power cord (UK/US/EU/AU)
Manufacturer: Shenzhen Hong Yun Electron Co., Ltd
Address: 3th Floor, B Bld., Sanmin Ind. park, 518108 Shiyan Town, Shenzhen, Guangdong, China

Accessory: Power Supply
Manufacturer: Dongguan NB Power Electronic Limited
Address: No.365, South Dongkeng Road, Dongkeng Town, Dongguan City, 523443, China

Accessory: USB-B cable
Manufacturer: Shenzhen Yishenghua Electronics Co., Ltd
Address: 307, 3rd Floor, Building C, Kaihuimao Industrial Zone, Heping Community, Fuhai Street, Baoan District, Shenzhen, China

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.

5 YEAR WARRANTY™