

# UHD4K 101 • Setup Guide

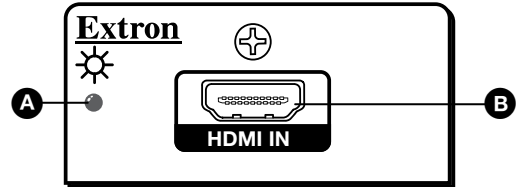
**IMPORTANT:**  
Go to [www.extron.com](http://www.extron.com) for the complete user guide and installation instructions before connecting the product to the power source.

## Overview

The Extron UHD4K 101 is a cable equalizer that actively conditions incoming HDMI signals to compensate for signal loss when long HDMI cables, low quality HDMI cables, or source devices with poor HDMI signal output are used. It extends Ultra High Definition (UHD) and 4K signals up to 50 feet (15 meters).

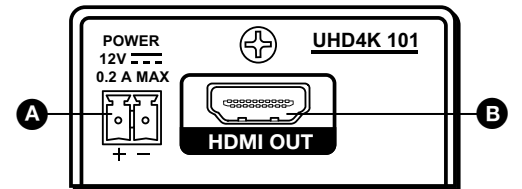
## Front Panel

- A Power and signal status LED** — This LED lights amber when power is connected and lights green when there is an active HDMI signal.
- B HDMI input** — Connect the source device to this input.



## Rear Panel

- A Power input** — Connect the 12 VDC, 1 A power supply to this power input.  
Alternatively, the UHD4K 101 can draw power from the source device over the HDMI cable but this reduces the maximum cable length (see [the table](#) on the next page).
- B HDMI output** — Connect the display to this output.



## Installation

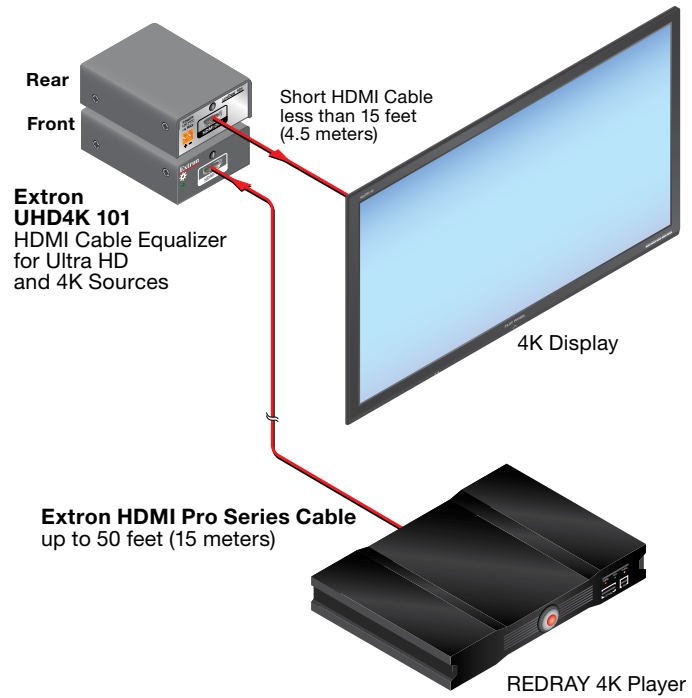
1. Mount the UHD4K 101 in a suitable location. The unit should be at the end of a long cable run from the source device and close to the output device.  
The unit can be placed on a table top or, with the appropriate kit, mounted on a rack, or mounted under or through furniture. Follow the instructions provided with the kit.
2. Connect the source device to the input of the equalizer. See [the table](#) on the following page for the maximum cable distances.
3. Connect the display device to the output of the equalizer. This cable should be a maximum of 15 feet (5 meters).

**NOTE:** Use the provided LockIt™ HDMI lacing brackets to secure the HDMI connectors (see the *UHD4K 101 User Guide* at [www.extron.com](http://www.extron.com)).

4. If required, connect the power supply (provided) to the 2-pole captive screw connector.

**ATTENTION:**

- Do not power on the touchpanels or control processors until you have read the Attention in the Power Supply section of the UHD4K 101 User Guide.
- Ne branchez pas les écrans tactiles ou les contrôleurs avant d'avoir lu la mise en garde dans la section « sources d'alimentation » du Guide de l'utilisateur UHD4K 101.



**NOTE:** If all the devices are correctly cabled and powered on and you do not see an image on the display device, you may need to buffer the DDC signal (see the *UHD4K 101 User Guide*).

## Maximum Cable Distances

The maximum cable distance depends on resolution, frequency, and, for PC resolutions, the power of the graphics card (when powered by the source). When the source is a PC, Extron recommends the UHD4K 101 be powered by an external power supply.

Resolution	Refresh (Hz)	Maximum Distance	
720p	24, 30, or 60	100 feet	(30.5 meters)
1080i	30 or 60	100 feet	(30.5 meters)
1080p	30	100 feet	(30.5 meters)
1080p (8, 10, or 12 bit)	60	75 feet	(22.9 meters)
3840x2160 (UHD)	30	50 feet	(15.2 meters)
3840x2160 (UHD)	60 (4:2:0)	50 feet	(15.2 meters)
4096x2160 (4k)	30	50 feet	(15.2 meters)

For additional resolutions refer to the *UHD4K 101 User Guide* (available at [www.extron.com](http://www.extron.com)).

## Internal Settings

### ATTENTION:




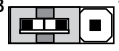





- Use electrostatic discharge (ESD) precautions (be electrically grounded) when making connections.
- Prenez des précautions contre les décharges électrostatiques (soyez électriquement relié à la terre) lorsque vous effectuez des connexions.

Under most conditions, the UHD4K 101 works without adjustments. However, the quality of the image displayed may be affected by a combination of the source, display, and cable length. If so, use the three sets of internal jumper switches to adjust DDC buffer, Equalization (EQ), and Pre-emphasis.

1. Remove the cover of the unit, as described in the *UHD4K 101 User Guide*.
2. Position the UHD4K 101 with the front panel (status LED) furthest from you and the rear panel (power input) closest to you.

In that orientation, the EQ jumpers are furthest from you and the Pre-emphasis jumpers are closest to you.

3. Set the jumper switches as shown in the table below and replace the cover to the unit.

Jumper	Function	Jumper Pins 2 and 3	Jumper Pins 1 and 2	No Jumper
J4 (EQ)	Adjusting this jumper can improve the image for some applications with longer cable runs, image artifacts, or both.	 8.6 dB	 4.3 dB	 12.4 dB <b>Default</b>
J5 (DDC Buffer)	Some applications require that the DDC be buffered for proper operation.  The Active setting for this jumper (connecting pins 1 and 2) is required for proper operation only for applications in which a source has a weak or no pull up resistor.	 Active, no pull up	 Active	 Pass-through <b>Default</b>
J6 (Pre-emphasis)	Adjusting this jumper can compensate for signal degradation in applications with higher data rate, higher resolution, or both. This adjustment is recommended for resolutions of 2560x1600 @ 60 Hz or higher.	 2.5 dB	 1.6 dB	 None <b>Default</b>

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