



madVR Envy

# HDMI Cabling Requirements

[www.madvrenvy.com](http://www.madvrenvy.com)

Revision 1.01

## Requirements For Reliable HDMI Handshaking

This document explains common pitfalls and issues that can lead to HDMI issues within an A/V system and includes troubleshooting steps to help with for a timely resolution for HDMI related issues.

Please check the following requirements to make sure your HDMI cabling is ideally suited for use with the Envy.

1. **Use only HDMI 18Gbs (or higher) “Premium Certified” HDMI cables.** Premium Certified cables have an official hologram logo and have passed HDMI formal testing.
2. **Use only HDMI cables at least 6 feet (2m) in length.** Some integrators prefer to use short cables for interconnects in the rack to help keep things tidy. And perhaps counter-intuitive, cables shorter than 6 feet can result in too strong of a signal. For interconnects we recommend using high quality *cooper* cables.
3. **Please do not use active fiber cables from source devices** such as Apple TV, Blu-ray players, media players etc. – such devices often do not provide sufficient power for the cable.
4. **Use only active fiber HDMI cables for any runs over 25 feet which come pre-terminated.** We highly recommend using active fiber HDMI cables for long lengths that are pre-terminated at the factory (and not running your own fiber and terminating it yourself). We do not recommend using HDBaseT solutions such as HDMI over CAT6 with baluns. This can lead to intermittent or other signal issues. Keystones and Punch-downs can cause a high probability of failure in some installations. And further, these cables cannot handle the transmission of Envy’s upscaled 5K and 8K resolutions (which will require HDBaseT 3.0 later).
5. **Make sure that any directional cable is installed in the right direction.** Active fiber HDMI cables are directional, meaning that there is a designated Source end, and a designated Display end. Please make sure that the Source end is connected to your AVR, sources or HDMI switch that feeds the Envy. And the Display end should be connected into the Envy port labeled “Input”.
6. **Make sure that all cables are plugged in tight and firmly seated.** To be sure, remove the cable and plug it back in.
7. **Make sure that the HDMI cables are plugged into the right Envy ports.** The AVR or HDMI switch should be plugged into the Envy port labeled Input, and the display/projector should be plugged into the port labeled Output.