

Metra Debuts 2nd Gen HDMI Correction Tool

Written by Frederick Douglas
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Metra Home Theatre Group (MHTG) launches the 2nd generation HDMI all-in-one correction tool-- the HDM-AIO2-- at the 2019 CEDIA Expo, an update featuring a smaller and more efficient design.



The first version of the correction tool, the HDM-AIO, allowed installers to fix the most common HDMI problems experienced in current home theatre systems. The update features a smaller footprint, the result of a redesigned circuit board promising both an increase in efficiency and faster input switching.

As MHTG puts it, when an HDMI signal is initiated a 5V trigger is sent from the source to the display to wake the display up. In turn the display responds with the hot plug return trigger to let the source know it is ready to negotiate. However a number of factors can sidetrack the process, such as too low voltage or current on either the 5V or hot plug return, the hot plug is not interrupted between source selection (necessary for EDID reset), insufficient voltage or current returned down the TMDS channel and a too high EDID (DDC) rise time due to the capacitive loading on the low speed data bus.

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The HDM-AIO2 provides a hot plug interrupt, fixes EDID startup issues, supplements voltage/current in the TMDS, 5V and hot plug feeds, and provides voltage matching for both device input and output. This ensures consistent common rail voltage from source to sink. EDID capacitive stripping corrects the most common EDID problems, including audio dropouts, "mode not supported" and "frequency out of range" error message. Once correctly installed and connected to a controlled relay, the HDM-AIO2 usually resolves all issues listed above.

The correction tool supports up to 24Gbps bandwidth and all versions of HDCP formats.

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