



ARCHITECTURAL AND ENGINEERING SPECIFICATION

PRODUCT: DA2HDMI-4K-PLUS

FUNCTIONAL OVERVIEW

The DA2HDMI-4K-Plus is a 1x2 HDMI 1.4 distribution amplifier for duplicating a single DVI/HDMI source to two mirrored HDMI outputs. It supports up to 4K UHD video, HDCP 1.4 content, and HDMI embedded audio. The unit provides Advanced EDID Management (emulation/learning) to improve source–display compatibility and uses Pixel Accurate Reclocking with input equalization to stabilize signals and reduce jitter for reliable transmission over longer cables. Video processing adds no latency.

VIDEO INPUT AND OUTPUT SPECIFICATIONS

- Video I/O standard: DVI 1.0, HDMI 1.4
- HDMI input: 1x 19-pole HDMI Type A receptacle (with screw lock)
- HDMI outputs: 2x 19-pole HDMI Type A receptacles (mirrored) (with screw lock)
- HDCP compliance: HDCP 1.4 (input HDCP can be enabled/disabled)
- Color space: RGB, YCbCr
- Video delay: 0 frame
- Supported resolutions (8 bits/color): up to 4096x2160@30Hz (4:4:4) or up to 4096x2160@60Hz (4:2:0)
- Supported timings: all standard VESA, CEA and other custom resolutions up to 300MHz (HDMI 1.4)
- Reclocking: Pixel Accurate Reclocking
- 3D support: yes
- Input cable equalization: yes, +12 dB fixed
- Maximum input cable length: 20 m (4Kp30) or 30 m (1080p60)
- CEC: passthrough supported; HDMI out 1: no CEC control; HDMI out 2: transparent

AUDIO CAPABILITIES

- HDMI embedded audio support: 8 channel PCM / Dolby TrueHD / DTS-HD Master Audio 7.1

POWERING (HOW THE DEVICE CAN BE POWERED)

- External supplied power adaptor (recommended): 5V DC, 3A (from 100–240 V

AC, 50/60 Hz source)

- USB port powering (via USB mini-B control port; can be enabled/disabled in software)
- HDMI input port powering from source (requires 5V, 500 mA capability; can be enabled/disabled in software)

CONTROL (HOW THE DEVICE CAN BE CONTROLLED)

- USB control (USB mini-B) via Lightware Device Controller (LDC)
- Front-panel control for EDID selection (rotary switches)
- Front-panel LEARN button functions including EDID learning, HDCP enable/disable, and factory default restore
- Firmware update via Lightware Device Updater (LDU) over USB

GENERAL

- Dimensions: 100.4 W x 67.6 D x 26 H (mm)
- Enclosure: 1 mm steel
- Weight: 250 g (0.55 lbs)
- Mounting options (compatibility):
 - 1U High Rack Shelf (4x devices)
 - UD Mounting Kit (1x device)
 - UD Mounting Plate F110 (1x device)
- LVD / electrical safety compliance: EN 62368-1:2024
- Other compliance: CE, UKCA; EMC EN 55032:2015+A1:2020 (emission), EN 55035:2017+A11:2020 (immunity); RoHS EN 63000:2018
- Cooling: Passive
- Supplied accessories (box contents for DA2HDMI-4K-Plus):
 - 5V DC power adaptor with interchangeable plugs
 - USB cable (USB-A to USB mini-B)
 - Safety & Warranty Info; Quick Start Guide
- Warranty period: 3 years
- Packaging: the product has full paper / green packagingDocument revision history

Document	Release Date	Changes	Checked by
v1	2026-07-03	Initial version	Nikolett Keindl