PRODUCTS › CABLES

TC-AOC-HDMI-8K

HDMI AOC Cable (8K)

Up to 8K @ 60 Hz and 4K @ 120 Hz at 48 Gbps, over fibre

48 Gbps	HDCP 2.3	12-bit	20 m
8K @ 60 Hz 4:4:4 · 4K @ 120 Hz	HDR10 · HDR10+ · Dolby Vision · HLG	deep colour, within the 48 Gbps	the longest of three lengths

TC-AOC-HDMI-8K is an active optical HDMI cable for long runs: up to 48 Gbps over a hybrid of optical fibre and tinned copper, for up to 8K @ 60 Hz 4:4:4, 8K @ 30 Hz or 4K @ 120 Hz, with 8-, 10- or 12-bit colour within that bandwidth. HDCP 2.3, HDR10, HDR10+, Dolby Vision and HLG pass through, with CEC, and VRR, ALLM, QMS, QFT and SBTM are supported.

Audio travels with the picture — LPCM to eight channels at 192 kHz / 24-bit, Dolby TrueHD, DTS-HD Master Audio and DSD. The cable needs no external power, its construction protects the signal against electromagnetic interference, and at 4.8 mm across it is thin and light. It is directional: the Source end goes to the source and the Display end to the display. It is offered in 10, 15 and 20 m lengths.

01 KEY CAPABILITIES

- Hybrid fibre–copper construction: no external power, thin and light, and protected against electromagnetic interference
- VRR, ALLM, QMS, QFT and SBTM supported



SIGNAL PATH · DIRECTIONAL, THE SOURCE END AT THE SOURCE; NO POWER NEEDED AT EITHER END

02 VIDEO

HDCP	Passes HDCP 2.3-protected signals
Maximum resolution	Up to 8K @ 60 Hz 4:4:4 · 8K @ 30 Hz · 4K @ 120 Hz
Bandwidth	Up to 48 Gbps
Colour depth	8/10/12-bit — resolution, refresh rate and depth together within 48 Gbps
HDR	HDR10, HDR10+, Dolby Vision, HLG pass-through
CEC	CEC supported

03 AUDIO

HDMI audio formats	LPCM (8-channel, 192 kHz / 24-bit), Dolby TrueHD, DTS-HD Master Audio, DSD

04 CONNECTIVITY

Connectors	HDMI Type A male at both ends · directional — Source end to the source, Display end to the display

05 ELECTRICAL & PHYSICAL

Power supply	No external power
Operating temperature	0 to 40 °C
Storage temperature	−20 to 60 °C
Humidity	Operating 20–80 % · storage 10–90 % RH, non-condensing
ESD protection	±8 kV air · ±4 kV contact (IEC 61000-4-2)
Cable construction	Optical fibre + tinned-copper hybrid · 4.8 mm OD · PVC jacket · metal connector shells, gold-plated
Installation limits	Pull no more than 10 kg · hold the connector body, never the cable

06 COMPLIANCE & ASSURANCE

Certification statement	Designed for global compliance — CE, FCC, RoHS, and regional certifications, as applicable.
Warranty	3 years

07 ORDERING

Order codes	**TC-AOC-HDMI-8K-10** · **TC-AOC-HDMI-8K-15** · **TC-AOC-HDMI-8K-20**
Lengths / order variants	10 · 15 · 20 m

PRODUCT PAGE

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signal · engineered.