



Resolution up to 4K30

HDMI Interface

Optional: Local HDMI-Access

Optional: KVM Switch in CON Unit

Compatible with all Draco devices

Prepared for HDCP support

PRODUCT INFORMATION

Use the Draco vario HDMI 4K30 Extender to extend video signals without entailing any loss of quality up to 10 km. Pictures are displayed without delay, brilliantly clear and in highest resolutions, including 4K30.

Support of 3D and audio

Even 3D formats can be transmitted fast and without difficulty. Experience excellent sound data with finest details by digital audio transmission via HDMI. Take advantage of highest flexibility: For interconnections both, Cat X and fiber, can be used.

Various add-ons available

For additional peripheral connectivity, a wide range of interfaces and protocols can be embedded into the datastream of HDMI and USB-HID. Choose from analog and digital audio options or data transmission such as RS-232/422 and USB2.0.

The online available Draco System Designer dsd.ihse.com provides all options with plausibility check and mounting options.

Product variants

The Draco vario HDMI 4K30 Extender is also available as a Draco vario ultra Extender (Series 491) with the Lici® (Lightweight Image Coding technology). The ultra series normally is used for applications where no frame drops are allowed or synchronized multi-signal transmission is required.

HDCP Support

The extenders are prepared for transmitting HDCP content transmission. With future firmware updates this functionality will be added at no extra charge.

PRODUCT FEATURES

- High resolution video can be transmitted via HDMI interface
- Lockable HDMI port with local feed-through at CPU and local input at CON module
- The interface is compatible with 3D technology. Side-by-Side and Top-and-Bottom formats can be transmitted
- Simple keyboard commands (hot keys) for transmission of remotely connected EDID information; including permanent storage in the CPU Unit
- HDCP support for integrating media receivers or other or other sources requiring HDCP compliant signal transmission (DVD players etc.)
- HDMI embedded audio is cross compatible with digital audio upgrade modules
- Redundant data link options with auto-fail-over
- Compatible with all IHSE Draco KVM switches as well as Draco vario extenders (add-on modules included)



TECHNICAL DATA													
Input	HDMI up to 4K30												
Output	HDMI up to 4K30												
Audio (embedded)	Stereo Linear Pulse Code Modulation (LPCM)												
Maximum resolution	4K30 / 2K60												
Keyboard / mouse	USB HID (support of keyboard/ mouse with additional module USB 2.0 transparent)												
Optional interfaces	USB 2.0 (high speed or full speed), analog audio with RS232 or RS422, digital audio, USB embedded, balanced audio												
Maximum transmission range for video and USB-HID signals (end-to-end connection)	<table border="0"> <tr> <td></td> <td>Video and USB-HID signal</td> </tr> <tr> <td>Cat X:</td> <td>140 m (459 ft)</td> </tr> <tr> <td>Single-Mode 9µm:</td> <td>10,000 m (32,808 ft)</td> </tr> <tr> <td>Single-Mode 9µm XV:</td> <td>5,000 m (16,404 ft)</td> </tr> <tr> <td>Multi-Mode 50µm (OM3):</td> <td>1,000 m (3,280 ft)</td> </tr> <tr> <td>Multi-Mode 50µm:</td> <td>400 m (1,312 ft)</td> </tr> </table>		Video and USB-HID signal	Cat X:	140 m (459 ft)	Single-Mode 9µm:	10,000 m (32,808 ft)	Single-Mode 9µm XV:	5,000 m (16,404 ft)	Multi-Mode 50µm (OM3):	1,000 m (3,280 ft)	Multi-Mode 50µm:	400 m (1,312 ft)
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Power supply	Power supply via the used Draco vario chassis*												
Current draw	Max. 1.990 mA per extender module (power input via the used Draco vario chassis)*												
Dimensions	20 x 129 x 143 mm												
Weight	approx. 130 g												
Chassis / mounting accessories	Suitable Draco vario chassis and mounting accessories under the following link: https://www.ihse.com/chassis-accessoires/ or dsd.ihse.com												
Upgradable	Onboard Flash												

* For detailed information refer to the user manual.

NOTICE: Transmission ranges for transparent USB when using add-on modules

When using L474/R474 add-on modules with transparent USB, the binding specifications stated in the data sheets of the add-on modules apply.

ORDER NUMBERS

DRACO VARIO SERIES 481/491	PART NO. DRACO VARIO (481)	PART NO. DRACO VARIO ULTRA (491)
Draco vario / Draco vario ultra HDMI 4K30 CPU module, Cat X 1G	L481-BUHCL	L491-BUHCL
Draco vario / Draco vario ultra HDMI 4K30 CPU module, Cat X 1G, redundant	L481-BUHCLR	L491-BUHCLR
Draco vario / Draco vario ultra HDMI 4K30 CPU module, Fiber 1G	L481-BUHSL	L491-BUHSL
Draco vario / Draco vario ultra HDMI 4K30 CPU module, Fiber 1G, redundant	L481-BUHSLR	L491-BUHSLR
Draco vario / Draco vario ultra HDMI 4K30 CPU module, Fiber 3G	L481-BUHXL	L491-BUHXL
Draco vario / Draco vario ultra HDMI 4K30 CPU module, Fiber 3G, redundant	L481-BUHXLR	L491-BUHXLR
Draco vario / Draco vario ultra HDMI 4K30 CON module, Cat X 1G	R481-BUHCL	R491-BUHCL
Draco vario / Draco vario ultra HDMI 4K30 CON module, Cat X 1G, redundant	R481-BUHCLR	R491-BUHCLR
Draco vario / Draco vario ultra HDMI 4K30 CON module, Fiber 1G	R481-BUHSL	R491-BUHSL
Draco vario / Draco vario ultra HDMI 4K30 CON module, Fiber 1G, redundant	R481-BUHSLR	R491-BUHSLR
Draco vario / Draco vario ultra HDMI 4K30 CON module, Fiber 3G	R481-BUHXL	R491-BUHXL
Draco vario / Draco vario ultra HDMI 4K30 CON module, Fiber 3G, redundant	R481-BUHXLR	R491-BUHXLR



IHSE offers an online tool for free configuration of your KVM projects. It enables documentation and verification of individual extenders up to complete matrix applications. All KVM switches and extenders are available for selection, including add-on modules, chassis variants and special accessories: [dsd.ihse.com](https://www.ihse.com/dsd)