



HDMI 1.3 Interface

Optional: Local HDMI-Access

Optional: KVM Switch in CON Unit

Compatible with all Draco devices

Fraunhofer IIS' Lici® codec included

## PRODUCT INFORMATION

Use the Draco vario HDMI 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 full HD and 2K.

### 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

In case you don't need USB transmission we optionally offer a less expensive, half-sided HDMI extra

module. This module can be used for mere video extension as well as for realization of multi head applications. Furthermore we offer an optional CPU unit with local access to connect an HDMI monitor as well as a CON Unit with switchable HDMI input for local sources, e.g. computers.

## PRODUCT FEATURES

- > The standard version allows operation of a remote workstation with a HDMI/DVI-D monitor and two USB-HID devices (keyboard and mouse)
- > High resolution video via HDMI interface
- > Lockable HDMI port
- > 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
- > Compatible with all major operating systems
- > Compatible with IHSE Draco KVM switches and Draco vario ultra extenders (add-on modules included)
- > HDMI embedded audio is cross compatible with digital audio add-on modules
- > Redundant data link
- > Fits into one 19"/1U rack

## Fraunhofer IIS' technology inside

Lici® (Lightweight Image Coding technology)

- Compression up to lossless
- Low latency
- No frame drops
- RGB/YCbCr or raw data compression

Gefördert durch:



aufgrund eines Beschlusses  
des Deutschen Bundestages



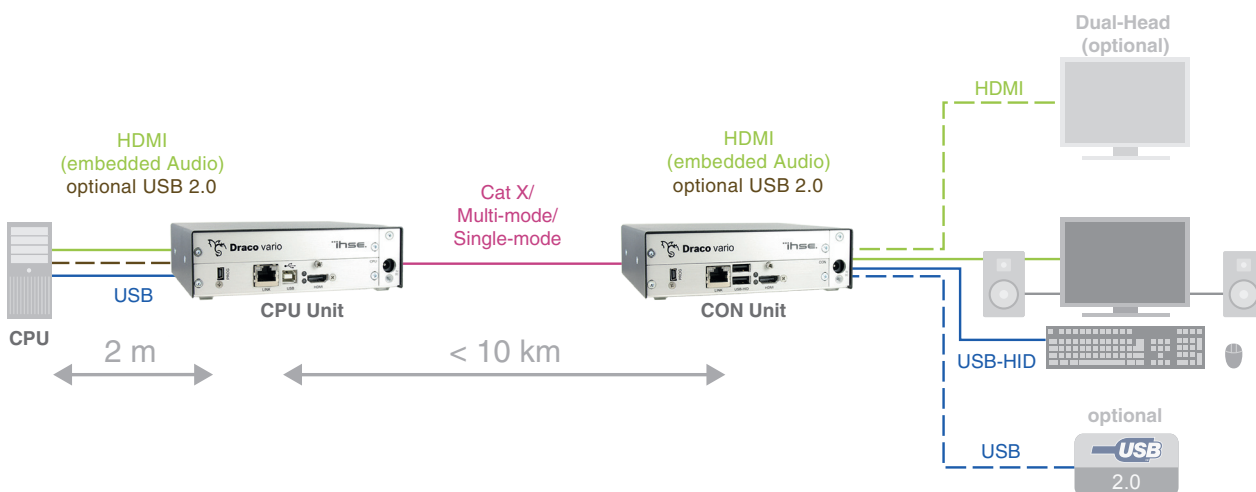
TECHNICAL DATA																											
Input Interface	HDMI																										
Output Interface	HDMI																										
Audio	Linear Pulse Code Modulation (LPCM), DTS, DTS-HD (5.1), Dolby Digital, Dolby Digital Plus (5.1)																										
Resolution (max.)	1920 x 1200 @ 60 Hz, Full HD (1080p) or 2 K HD (up to 2048 x 1152 @ 60 Hz)																										
Maximum transmission range for video and USB-HID signals (end-to-end connection)	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)																										
Keyboard / Mouse	USB HID (support of keyboard/ mouse with additional module USB 2.0 transparent)																										
Power Supply	International power supply unit (90-240V Input)																										
Mounting accessories	19" Rackmount-Kit and brackets available																										
Upgradable	Onboard Flash																										
Part No.	<table border="0"> <tr> <td><b>CPU Unit (Local)</b></td> <td><b>CON Unit (Remote)</b></td> </tr> <tr> <td>L491-1HHC</td> <td>R491-1HHC</td> </tr> <tr> <td>L491-1HHS</td> <td>R491-1HHS</td> </tr> <tr> <td>L491-1HHCR</td> <td>R491-1HHCR</td> </tr> <tr> <td>L491-1HHSR</td> <td>R491-1HHSR</td> </tr> <tr> <td>L491-1HHCL (With integrated Local-Video-Access)</td> <td>---</td> </tr> <tr> <td>L491-1HHSL (With integrated Local-Video-Access)</td> <td>---</td> </tr> <tr> <td>L491-1HHCLR (With integrated Local-Video-Access)</td> <td>---</td> </tr> <tr> <td>L491-1HHSLR (With integrated Local-Video-Access)</td> <td>---</td> </tr> <tr> <td>---</td> <td>R491-1HHCW (KVM switch functionality included)</td> </tr> <tr> <td>---</td> <td>R491-1HHSW (KVM switch functionality included)</td> </tr> <tr> <td>---</td> <td>R491-1HHCWR (KVM switch functionality included)</td> </tr> <tr> <td>---</td> <td>R491-1HHSWR (KVM switch functionality included)</td> </tr> </table>	<b>CPU Unit (Local)</b>	<b>CON Unit (Remote)</b>	L491-1HHC	R491-1HHC	L491-1HHS	R491-1HHS	L491-1HHCR	R491-1HHCR	L491-1HHSR	R491-1HHSR	L491-1HHCL (With integrated Local-Video-Access)	---	L491-1HHSL (With integrated Local-Video-Access)	---	L491-1HHCLR (With integrated Local-Video-Access)	---	L491-1HHSLR (With integrated Local-Video-Access)	---	---	R491-1HHCW (KVM switch functionality included)	---	R491-1HHSW (KVM switch functionality included)	---	R491-1HHCWR (KVM switch functionality included)	---	R491-1HHSWR (KVM switch functionality included)
<b>CPU Unit (Local)</b>	<b>CON Unit (Remote)</b>																										
L491-1HHC	R491-1HHC																										
L491-1HHS	R491-1HHS																										
L491-1HHCR	R491-1HHCR																										
L491-1HHSR	R491-1HHSR																										
L491-1HHCL (With integrated Local-Video-Access)	---																										
L491-1HHSL (With integrated Local-Video-Access)	---																										
L491-1HHCLR (With integrated Local-Video-Access)	---																										
L491-1HHSLR (With integrated Local-Video-Access)	---																										
---	R491-1HHCW (KVM switch functionality included)																										
---	R491-1HHSW (KVM switch functionality included)																										
---	R491-1HHCWR (KVM switch functionality included)																										
---	R491-1HHSWR (KVM switch functionality included)																										

**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.

## FUNCTIONAL DIAGRAM



## DIY YOU KNOW?

- > The HDMI extender is fully compatible to monitors and computers with DVI-D or DisplayPort interfaces by just using a passive adapter cable
- > Using any balanced or digital audio add-on module on the HDMI CON Unit allows the parallel audio output at both the add-on module