



Resolutions up to 4096 x 2160 @ 60 Hz

30 bit (Deep Color), 4:2:2, no frame drops

Mix &amp; Match HDMI 2.0 with DP1.2 Input/Output

Combined video and audio transmission

Local output on CPU Unit

Local input on CON Unit

## PRODUCT INFORMATION

The Draco vario ultra HDMI 2.0 extender enables the operation of CPUs from a remotely located workstation including HDMI monitor, keyboard and pointing device over a duplex LC fiber connection. Transfer of fully-digital video is supported in 4K resolutions up to 4096 x 2160 and 3840 x 2160

at a real 60-Hz refresh rate and color depth (24 bit, 4:4:4 or 30 bit, 4:2:2). The KVM extender also supports audio transmission via the HDMI interface. Integration of optional Draco vario add-on modules for digital audio input and output as well as data signals, such as USB 2.0 and RS232 is also possible. For

a direct video access in the server room, the CPU Unit includes a local output to connect a control monitor. At the same time there is a local input on the CON Unit to connect a locally connected source (switchable).

## PRODUCT FEATURES

- Operation of CPUs from a remote workstation with a HDMI 2.0 monitor and USB HID devices
- Transmission of fully-digital video signals up to 4K DCI (4096 x 2160) and UHD (3840 x 2160)
- New lossless video codec (visually), no frame drops, 30 bit (Deep Color) 4:2:2
- PCM audio format can be transferred via the HDMI interface (up to 96 kHz)
- Local output on CPU Unit (Micro-HDMI)
- Local input on CON Unit (Micro-HDMI)
- Optional: Redundant data link for 24/7 availability
- Compatible\* with all:
  - major operating systems
  - chassis of the Draco vario series
  - IHSE Draco tera KVM matrix switches with XV interfaces
  - other main modules of Draco vario ultra extenders (49x series)
  - Draco vario upgrade modules for audio and data signals such as USB 2.0, balanced audio or RS232

## Next generation KVM extenders with integrated Fraunhofer IIS's lightweight coding technology

Lici® (Lightweight Image Coding technology)

- Compression up to mathematically lossless
- Low latency
- No frame drops
- RGB/YCbCr or raw data compression
- 2K/4K/8K possible or higher frame rates

Gefördert durch:



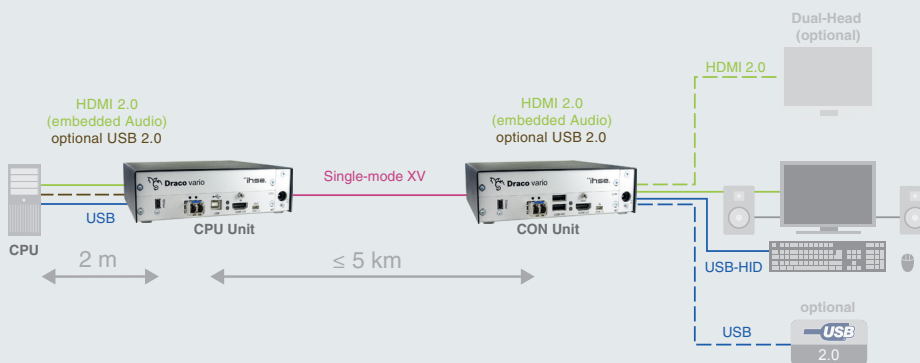
aufgrund eines Beschlusses  
des Deutschen Bundestages



\* Video transmission of the Draco vario ultra series 490, 492, 493 and 495 series is not compatible with the main modules of the Draco vario series 474, 481, 482, 483 and Draco compact 477 series.

TECHNICAL DATA		
Input	HDMI 2.0	
Output	HDMI 2.0	
Maximum Resolution	1920 x 1080 @ 240 Hz 1920 x 1200 @ 60 Hz 2048 x 2048 @ 60 Hz 2560 x 2048 @ 60 Hz 3840 x 2160 @ 60 Hz (30 bit, 4:2:2 or 24 bit, 4:4:4) - UHD 4096 x 2160 @ 60 Hz (30 bit, 4:2:2 or 24 bit, 4:4:4) - 4K DCI	
Audio	Standards	Stereo Linear Pulse Code Modulation (LPCM)
	Bit Depth	16 - 24 bit
	Sample Rate	32 - 192 kHz
Maximum Cable Distance	Single-mode XV (9 $\mu$ ) up to 5 km Cat XV (3G) up to 100m	
Optional Interfaces	USB 2.0 (high speed or full speed), analog audio with RS232 or RS422, digital audio, PS/2, USB embedded, balanced audio	
Keyboard/Mouse	USB-HID	

## FUNCTIONAL DIAGRAM



## ORDER NUMBERS

	L495-BHHXL		R495-BHHXL
	L495-BHHXLR		R495-BHHXLR
	L495-BHHCXL		R495-BHHCX
	L495-BHHCXLR		R495-BHHCXR

## ULTRA HD / 4K DCI

