



- Support for SST and MST
- Less cabling necessary
- Saves hardware costs
- 24 bit (True Color), 4:4:4
- Lossless transmission
- No frame drops
- Redundant power supply

## PRODUCT INFORMATION

The Draco vario ultra MST (Multi Stream Transport) Extender enables the remote operation of spatially separated computers and dual-screen workstations with two DisplayPort monitors, keyboard and mouse over a single fiber optic or Cat connection.

The multi-stream transport protocol allows two screens on a personal workstation to be connected to a remote computer using just one cable connection. The video signal

is passed from the first monitor to the second over a daisy-chained link. Both monitors are recognized and operated by the computer separately. Alternatively, the MST video signal can be split by MST hubs and sent directly to any DisplayPort monitor.

The MST extender allows 4K resolution on both monitors at a frame rate of 30 Hz or 60 Hz for 1080p and 2560x1600 resolutions. It supports true color depth (24 bit) and an optimal color sampling

of 4:4:4. Additional connections can be integrated using optional additional modules, including audio, USB 2.0 and RS232.

The MST extender transmits all signals in the same data stream and does not require an additional connection cable. For a single monitor workstation, the extender also supports the Single Stream Transport Protocol (SST) with resolutions up to 4K60.

## PRODUCT FEATURES

- Operation of CPUs from a remote workstation with a DisplayPort monitor and USB HID devices
- New lossless video codec (visually), no frame drops, full color depth, 24 bit (True Color) 4:4:4
- Transmission of monitor EDID information by hotkey; including permanent storage in the CPU Unit
- Embedded mode for lower video resolutions allows instant switching via Draco tera
- Optional: Redundant data link for 24/7 availability
- Compatible\* with all:
  - major operating systems
  - chassis of the Draco vario series
  - IHSE Draco 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)

- Mezzanine compression up to mathematically lossless
- Low latency
- No frame drops

Gefördert durch:



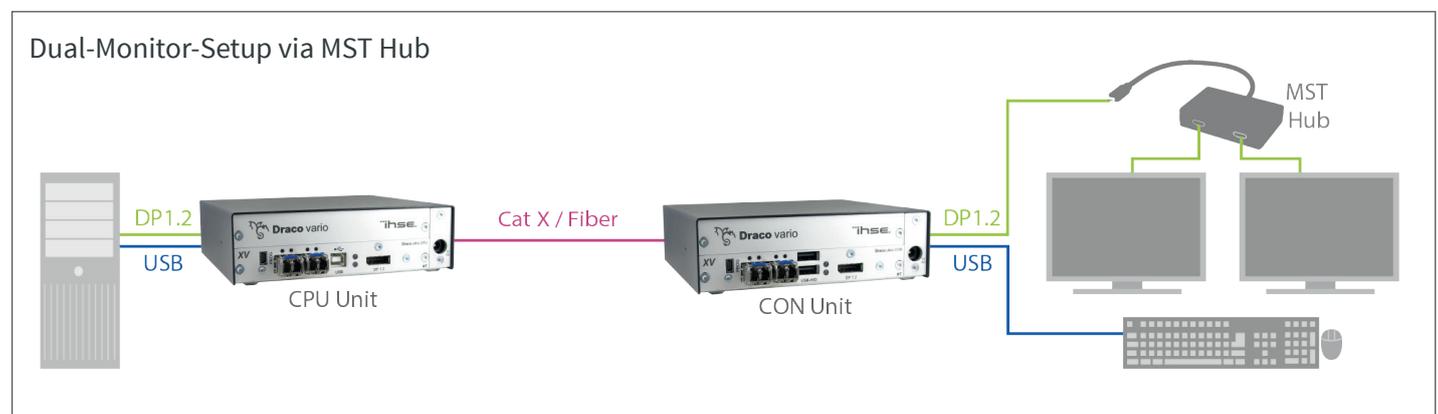
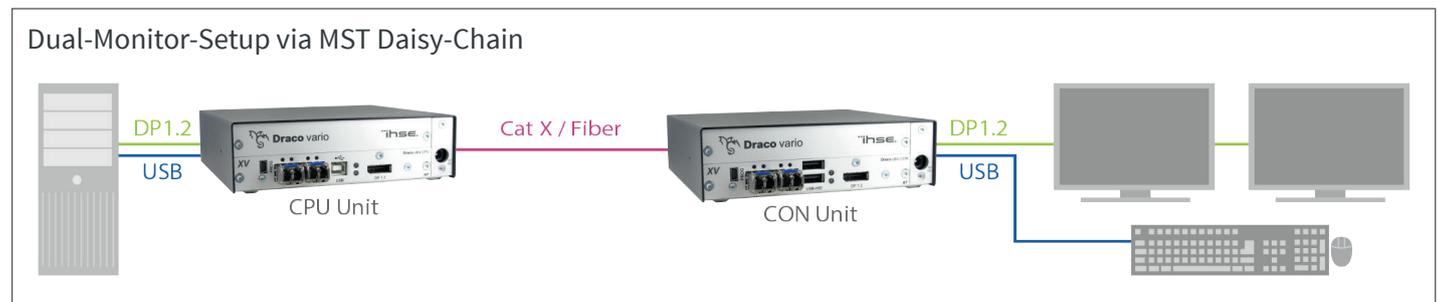
aufgrund eines Beschlusses des Deutschen Bundestages



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

TECHNICAL DATA	
Input	DisplayPort 1.2
Output	DisplayPort 1.2
Maximum Resolution <small>(* resolution might depend on future firmware update)</small>	2x 1920 x 1080 @ 60 Hz 2x 3840 x 2160 @ 30 Hz (24 bit) - UHD* 2x 1920 x 1080 @ 120 Hz* 2x 4096 x 2160 @ 30 Hz (24 bit) - 4K DCI*
Maximum Cable Distance	Single-mode XV (9 μ) up to 5 km Multi-mode upon request
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

Draco vario ultra DisplayPort 1.2 MST	PART NO.
Draco vario ultra DisplayPort 1.2 MST, CPU module, fiber	L490-BPHX-M
Draco vario ultra DisplayPort 1.2 MST, CPU module, fiber, redundant	L490-BPHXR-M
Draco vario ultra DisplayPort 1.2 MST, CPU module, Cat X	L490-BPHCX-M
Draco vario ultra DisplayPort 1.2 MST, CPU module, Cat X, redundant	L490-BPHCXR-M
Draco vario ultra DisplayPort 1.2 MST, CON module, fiber	R490-BPHX-M
Draco vario ultra DisplayPort 1.2 MST, CON module, fiber, redundant	R490-BPHXR-M
Draco vario ultra DisplayPort 1.2 MST, CON module, Cat X	R490-BPHCX-M
Draco vario ultra DisplayPort 1.2 MST, CON module, Cat X, redundant	R490-BPHCXR-M