# VISIONVS-FIBER(M)

KVM extenders, Article number A1110804



Front



Back

The VisionVS is a hybrid computer module featuring a dual encoder that transmits KVM signals with virtually zero latency and lossless quality via a dedicated G&D KVM matrix to the workplace. At the same time, it enables remote access to the computer via web interface or low-latency streaming to VuWall PAK devices for flexible video wall management.

## SCOPE OF DELIVERY

| Quantity | Description | Article number |
|---|---|---|
| 1 | 19" RM-Set-436-1RU | A7000003 |
| 1 | PowerCable-2 Standard cable 2m | A6300057 |
| 1 | USB-AM/BM-2 cable USB 2m | A6300113 |
| 1 | DP1.4-Cable-M/M-2 SK13357 2m | A6300173 |
| 1 | RS232-M/F-2 cable RS232 2m | A6300023 |
| 1 | Audio-M/M-2-ferrite cable 2m | A6300083 |
| 1 | Safety instructions flyer - FCC class A | A9100377 |

# DETAILS

## VIDEO

- bluedec™ – advanced developed multi-stage compression for best video quality and practically latency-free transmission. This method enables pixel-perfect video transmission with efficient bandwidth use.
- The end devices can be flexibly combined with each other, even if they process different video signals (Mix & Match)
- Resolution up to
  2560 × 1600 @ 60 Hz,
  4096 × 2160 @ 30 Hz
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  2560 × 1600 @ 60 Hz,
  4096 × 2160 @ 30 Hz

## SIGNALS

- Embedded stereo audio (2 channel LPCM)

## TRANSMISSION

- The transmission distance is up to 400 meters over fiber multimode optics, incl. transmission module(s)/SFP transceiver(s)

## DEVICE

- Improved security through physical separation between workplaces and computers
- Access to standard interfaces of the computer, with no software installation required
- The devices are compatible with the ControlCenter-Digital and ControlCenter-Compact series (matrix operation) and other end devices for computer and workplace connections (extender operation)
- Internal power pack for main power supply

# FEATURES

## OPERATION FEATURES

- Video wall processing and KVM combined in one appliance
  The combination of powerful image processing and KVM functionality reduces the number of required devices.
- Direct streaming to G&D KVM matrix systems and VuWall PAK nodes
  Flexible use in hybrid environments with both centralized and decentralized access to computing resources.
- Reduced system complexity, lower cabling effort, and minimal rack space requirements
  A more efficient infrastructure with fewer hardware components saves costs, conserves space, and simplifies installation.

# EXTENSIONS

## TRANSMISSION

- A VuWall TRx appliance with version 3.11 or higher is required for the VuWall streaming application.

## DEVICE

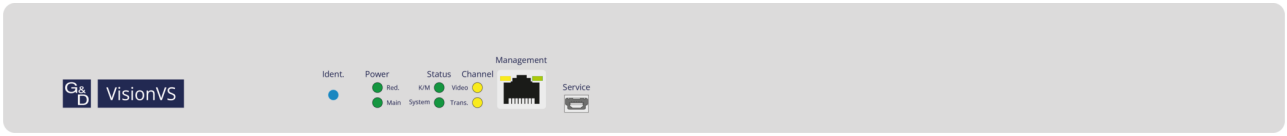
- External power supply via external 12V power pack or G&D-MultiPower, providing a central and redundant power supply

## SYSTEM EXTENSION

- You can integrate the matrix-compatible extenders into a complete installation with a ControlCenter-Compact or ControlCenter-Digital, even at a later point in time. This provides you with even greater flexibility through the possibility of distributed access – and the existing components can continue to be used.

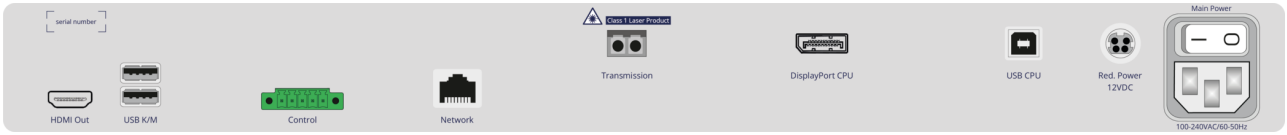
# INTERFACES

## FRONT




| Aperture designation | Design | Description |
|---|---|---|
| Network Management | RJ45 socket | Port for IP network |
| Service | Mini-USB socket | Port for service purposes |

## BACK




| Aperture designation | Design | Description |
|---|---|---|
| HDMI Out | HDMI socket | Port for monitor |
| USB K/M | USB-A socket 2.0 | Port for keyboard and mouse |
| Control | Clamp block - 5 pins | Port for external remote control |
| Network | RJ45 socket | Port for IP network |
| Transmission | SC-Duplex socket | Data transmission to console module or matrix switch (FIBER) |
| DisplayPort CPU | DisplayPort socket | Connection to computer - Video |
| USB CPU | USB-B socket 2.0 | Connection to computer - USB |
| Red. Power 12VDC | Mini-DIN 4 socket | Power supply DC redundant |
| Main Power | IEC plug 320 C14 | Power supply AC |

# TECHNICAL DATA

| | | |
|---|---|---|
| General | Brand | G&D |
| | Product group | KVM extenders |
| | Product Family | VisionVS |
| | Country of origin | Germany |
| | KVM matrix system component | Computer module (digital) |
| | Power Supply | Redundancy without load balancing |
| Input options | USB mouse | yes |
| | USB keyboard | yes |
| Transmission | Number of transmission channels | 1 |
| | Redundant transmission channels | no redundant KVM transmission |
| | Range | 100 m (62.5/125µm)<br>200 m (50.0/125µm, OM2)<br>400 m (50.0/125µm, OM3)<br>70 m (62.5/125µm)<br>150 m (50.0/125µm)<br>400 m (50.0/125µm, OM4 - 4700MHz*km) |
| | Laser class | Class 1 |
| | Type of interface | LC-Duplex |
| | Wavelength | 850 nm |
| | Medium | Fiber MM |
| | Data rate | 2.5 Gbit/s |

| | | |
|---|---|---|
| **Video input** | Quantity | 1 |
| | Format | DisplayPort 1.1 (HBR) |
| | Colour depth | 24 bit |
| | Pixel encoding | RGB 4:4:4 (24 bpp / 8 bpc) |
| | Pixel rate ca. | 25 MPixel/s to 300 MPixel/s |
| | Vertical frequency | 24 Hz to 120 Hz |
| | Horizontal frequency | 25 kHz to 185 kHz |
| | Exemplary resolutions | 4096 × 2160 (30 Hz)<br>4096 × 2160 (25 Hz)<br>4096 × 2160 (24 Hz)<br>3840 × 2160 (30 Hz)<br>3840 × 2160 (25 Hz)<br>3840 × 2160 (24 Hz)<br>2560 × 1600 (60 Hz)<br>2048 × 2048 (60 Hz)<br>1920 × 1200 (60 Hz)<br>1920 × 1080 (60 Hz) |
| | General Notes | Further VESA and CTA standardised resolutions possible within pixel rate and horizontal/vertical frequency. |
| | Supported industry standards | Display Data Channel Command Interface (DDC/CI)<br>Extended Display Identification Data (EDID) |
| **Video output** | Quantity | 1 |
| | Format | HDMI 1.4 |
| | Colour depth | 24 bit |
| | Pixel rate ca. | 25 MPixel/s to 297 MPixel/s |

| | | |
|---|---|---|
| | Exemplary resolutions | 4096 × 2160 (24 Hz)<br>4096 × 2160 (25 Hz)<br>4096 × 2160 (30 Hz)<br>3840 × 2160 (24 Hz)<br>3840 × 2160 (25 Hz)<br>3840 × 2160 (30 Hz)<br>2048 × 2160 (60 Hz)<br>2048 × 2048 (60 Hz)<br>2560 × 1600 (60 Hz)<br>1920 × 1200 (60 Hz)<br>1920 × 1080 (60 Hz) |
| | General Notes | Further VESA and CTA standardised resolutions possible within pixel rate and horizontal/vertical frequency. |
| Audio | Transmission type | Stereo<br>2-channel LPCM |
| | Resolutions | 16 bit |
| | Sampling rate | up to 48 kHz |
| | Audio support | Digital Embedded |
| Network 1 | Quantity | 1 |
| | Medium | CAT5<br>CAT6<br>CAT7 |
| | Data rate | 10 Mbit/s<br>100 Mbit/s |
| Network 2 | Quantity | 1 |
| | Medium | CAT5<br>CAT6<br>CAT7 |
| | Data rate | 1 Gbit/s<br>100 Mbit/s<br>10 Mbit/s |

| | | |
|---|---|---|
| Maintenance | Update via | WebIF (Network) |
| Housing | Material | Anodised aluminium |
| | Active cooling (fan) | no |
| | Width ca. | 436 mm / 17.17 in |
| | Height ca. | 44 mm / 1.73 in |
| | Depth ca. | 284 mm / 11.18 in |
| | IP protection class | IP20 |
| | Weight ca. | 2.99 kg / 6.59 lb |
| Operating conditions | Operating environment temperature | 5 °C to 45 °C / 41 °F to 113 °F |
| | Operating air humidity, non-condensing | 20 % to 80 % |
| | Area of application | Indoor use |
| | Maximum operating altitude above sea level | 3,048 m |
| | Storage environment temperature | -20 °C to 60 °C / -4 °F to 140 °F |
| | Storage air humidity, non-condensing | 15 % to 85 % |
| Power supply 1 | Quantity | 1 |
| | Type | Internal |
| | Input voltage | 100-240 VAC |
| | Input frequency | 60-50 Hz |
| | Current consumption | 0.4-0.2 A |

| Power supply 2 | | |
|---|---|---|
| | Quantity | 1 |
| | Type | External |
| | Input voltage | 12 VDC |
| | Current consumption | 1.65 A |

## ACCESSORY PRODUCTS

| Image | Description | Article number |
|---|---|---|
| | **USB-Service-2 cable 2m**<br>Cable for system updates and configuration | A6200103 |
| | **Audio-M/M-3-ferrite cable 3m**<br>Audio connection cable with ferrite core | A6300118 |
| | **Audio-M/M-5-ferrite cable 5m**<br>Audio connection cable with ferrite core | A6300085 |
| | **DP-Cable-M/M-3 cable DP 3m**<br>Single cable to connect a DisplayPort video channel | A6300109 |
| | **DP1.4-Cable-M/M-3 SK13358 3m**<br>Single cable to connect a DisplayPort video channel (DP1.4) | A6300174 |
| | **DP1.4-Cable-M/M-5 SK13359 5m**<br>Single cable to connect a DisplayPort video channel (DP1.4) | A6300175 |
| | **PowerCable-3 Standard cable 3m**<br>Cable to connect the power supply type Germany | A6300066 |
| | **PowerCable-5 Standard cable 5m**<br>Cable to connect the power supply type Germany | A6300065 |
| | **USB-AM/BM-3 cable USB 3m**<br>USB cable, Type-A Plug/Type-B Plug | A6300114 |
| | **USB-AM/BM-5 cable USB 5m**<br>USB cable, Type-A Plug/Type-B Plug | A6300111 |

## RELATED PRODUCTS

| Description | Article number |
|---|---|
| **TS-LED-blue-R-2**<br>LED to tag the active console of a TradeSwitch configuration of a matrix | A6100173 |
| **TS-LED-blue-R-3**<br>LED to tag the active console of a TradeSwitch configuration of a matrix | A6100172 |
| **TS-LED-blue-R-5**<br>LED to tag the active console of a TradeSwitch configuration of a matrix | A6100171 |

# MORE VARIANTS

| Description | Article number |
|---|---|
| **VisionVS-CAT**<br>Hybrid computer module to extend DisplayPort signals with G&D KVM matrix (CAT) and simultaneous streaming (CAT) | A1110803 |
| **VisionVS-Fiber(S)**<br>Hybrid computer module to extend DisplayPort signals with G&D KVM matrix (fiber) and simultaneous streaming (CAT) | A1110805 |

# CONTACT

## WE ARE HERE FOR YOU!

If you have any further questions, we are looking forward to advising you on your individual project requirements.


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