

# VISIONVS-FIBER(S+)

KVM extenders, Article number A1110806



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
- Resolution up to  
2560 × 1600 @ 60 Hz,  
4096 × 2160 @ 30 Hz

### SIGNALS

- Embedded stereo audio (2 channel LPCM)

### TRANSMISSION

- The transmission distance is up to 10,000 meters over fiber singlemode+ 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

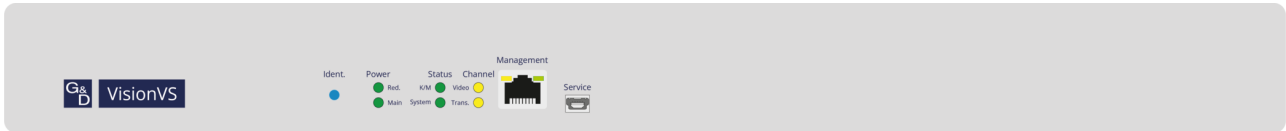
- External power supply via external 12V power pack or G&D-MultiPower, providing a central and redundant power supply

### 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.

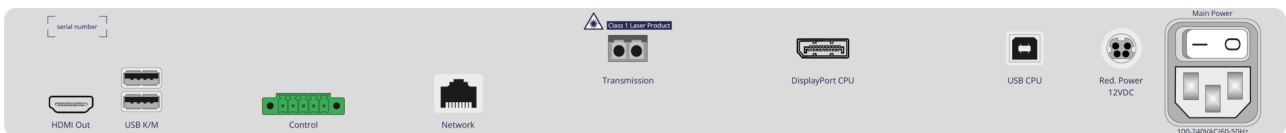
## PANELS AND CONNECTORS

### 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       | Product group                   | KVM extenders                     |
|               | Product Family                  | VisionVS                          |
|               | 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                           | 10,000 m (9/125µm, OS1)           |
|               | Laser class                     | Class 1                           |
|               | Type of interface               | LC-Duplex                         |
|               | Wavelength                      | 1,310 nm                          |
|               | Medium                          | Fiber SM+                         |
|               | Data rate                       | 2.5 Gbit/s                        |
| Video input   | Quantity                        | 1                                 |
|               | Format                          | DisplayPort 1.1 (HBR)             |
|               | Colour depth                    | 24 bit                            |
|               | 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                                                                                          |
|             | Width ca.         | 436 mm                                                                                                      |
|             | Height ca.        | 44 mm                                                                                                       |
|             | Depth ca.         | 284 mm                                                                                                      |

|                      |                                            |                 |
|----------------------|--------------------------------------------|-----------------|
| Operating conditions | IP protection class                        | IP20            |
|                      | Operating temperature                      | 5 °C to 45 °C   |
|                      | Operating air humidity, non-condensing     | 20 % to 80 %    |
|                      | Area of application                        | Indoor use      |
|                      | Maximum operating altitude above sea level | 3,048 m         |
|                      | Storage temperature                        | -20 °C to 60 °C |
|                      | 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 |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|----------------|
|    | <b>USB-Service-2 cable 2m</b><br>Cable for system updates and configuration                        | A6200103       |
|    | <b>Audio-M/M-3-ferrite cable 3m</b><br>Audio connection cable with ferrite core                    | A6300118       |
|    | <b>Audio-M/M-5-ferrite cable 5m</b><br>Audio connection cable with ferrite core                    | A6300085       |
|    | <b>DP-Cable-M/M-3 cable DP 3m</b><br>Single cable to connect a DisplayPort video channel           | A6300109       |
|    | <b>DP1.4-Cable-M/M-3 SK13358 3m</b><br>Single cable to connect a DisplayPort video channel (DP1.4) | A6300174       |
|  | <b>DP1.4-Cable-M/M-5 SK13359 5m</b><br>Single cable to connect a DisplayPort video channel (DP1.4) | A6300175       |
|  | <b>PowerCable-3 Standard cable 3m</b><br>Cable to connect the power supply type Germany            | A6300066       |
|  | <b>PowerCable-5 Standard cable 5m</b><br>Cable to connect the power supply type Germany            | A6300065       |
|  | <b>RS232-M/F-3 cable RS232 3m</b><br>Cable to connect a serial device                              | A6300024       |
|  | <b>RS232-M/F-5 cable RS232 5m</b><br>Cable to connect a serial device                              | A6300025       |
|  | <b>USB-AM/BM-3 cable USB 3m</b><br>USB cable, Type-A Plug/Type-B Plug                              | A6300114       |
|  | <b>USB-AM/BM-5 cable USB 5m</b><br>USB cable, Type-A Plug/Type-B Plug                              | A6300111       |

## RELATED PRODUCTS

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

## MORE VARIANTS

| Description                                                                                                                                   | Article number |
|-----------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| <b>VisionVS-CAT</b><br>Hybrid computer module to extend DisplayPort signals with G&D KVM matrix (CAT) and simultaneous streaming (CAT)        | A1110803       |
| <b>VisionVS-Fiber(M)</b><br>Hybrid computer module to extend DisplayPort signals with G&D KVM matrix (fiber) and simultaneous streaming (CAT) | A1110804       |
| <b>VisionVS-Fiber(S)</b><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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