

# DL-VISION(S)-MC2-AR-CPU

KVM extenders, Article number A1210070



The KVM extenders of the DL-Vision series extend keyboard, video, and mouse signals, as well as other peripheral data (e.g., audio and USB), via a dedicated fiber connection (up to 10,000 m) uncompressed, pixel-perfect and without any latency or loss. An extender system consists of a computer module (CPU) and a console module (CON). The DL-Vision series supports DualLink-DVI for high-resolution video up to 2560 × 1600 (60 Hz) or 4096 × 2160 (30 Hz).

## SCOPE OF DELIVERY

| Quantity | Description                             | Article number |
|----------|---|----------------|
| 2        | PowerCable-2 Standard cable 2m          | A6300057       |
| 2        | DVI-D-DL-M/M-2 cable DVI-D 2m           | A6300100       |
| 1        | USB-AM/BM-2 cable USB 2m                | A6300113       |
| 2        | RS232-M/F-2 cable RS232 2m              | A6300023       |
| 2        | Audio-M/M-2-ferrite cable 2m            | A6300083       |
| 1        | 19" RM-Set-436-1RU-Type2                | A7000011       |
| 1        | Twin-PS/2-M/M-2 cable PS/2 2m           | A6300102       |
| 1        | Safety instructions flyer - FCC class B | A9100371       |

## DETAILS

### VIDEO

- EDID data utilization from the workplace monitor
- Flexible EDID profile options for optimized monitor settings
- Resolution up to  
2560 x 1600 @ 60 Hz

### SIGNALS

- Transparent audio signals (stereo, analog)
- Transparent RS232 (max. 230,400 bps)

### 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
- MultiChannel variants (MC): Modules for multi-monitor workplaces with multi-channel video
  - MC mode uses the full bandwidth for each video channel, whereby a separate transmission line is required for each channel

### WARRANTY

- A 3-year, free of charge product guarantee
- For an additional fee guarantee extension possible

## FEATURES

### SECURITY FEATURES

- Early detection of security incidents or unusual activities through continuous monitoring via Syslog, monitoring, and SNMP
- Comprehensive rights management and user administration, allowing precise control over which user can access which resources
- Option for activatable access protection (default operating mode in matrix systems), in which authentication is required before accessing computer sources
- Support for external directory services (Active Directory, Radius, LDAP) to meet company security policies
- Freeze function: If the video signal is lost, the last displayed image is frozen and highlighted with a colored frame and timer
- Redundant internal power packs
- Redundant network interface

### OPERATION FEATURES

- Ready for operation out of the box, no additional configuration required
- Permanent keyboard/mouse emulation ensures a stable system
- Operation via multilingual on-screen display (OSD) and hotkeys
- Support of DDC/CI (Display Data Channel / Command Interface) to enable centralized software-side control of monitor settings such as brightness
- Local console at the computer module allows on-site operation, including all video channels
- Exclusive or concurrent operation: The KVM extender allows computer control both remotely and locally. When an input is detected, the extender automatically locks the competing console. The lock is lifted after a preset timeout if no further input is detected. A key combination can activate exclusive operation, immediately disabling the competing console. Another key combination restores shared control.

## TECHNICAL DATA

|               |                                 |                                   |
|---------------|---------------------------------|-----------------------------------|
| General       | Product group                   | KVM extenders                     |
|               | Product Family                  | DL-Vision                         |
|               | Power Supply                    | Redundancy without load balancing |
| Input options | USB mouse                       | yes                               |
|               | USB keyboard                    | yes                               |
|               | PS/2 mouse                      | yes                               |
|               | PS/2 keyboard                   | yes                               |
| Transmission  | Number of transmission channels | 2                                 |
|               | 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                       | 10 Gbit/s                         |
| Video input   | Quantity                        | 2                                 |
|               | Format                          | DualLink DVI                      |
|               | Colour depth                    | 24 bit                            |
|               | Pixel rate ca.                  | 25 MPixel/s to 330 MPixel/s       |

|        |                              |   |
|--------|------------------------------|---|
|        | Vertical frequency           | 20 Hz to 120 Hz   |
|        | Horizontal frequency         | 25 kHz to 185 kHz   |
|        | Exemplary resolutions        | 2560 × 1600 (60 Hz)<br>4096 × 2160 (30 Hz)<br>2048 × 2160 (60 Hz)<br>2048 × 2048 (60 Hz)<br>3840 × 2160 (30 Hz) |
|        | General Notes                | Further VESA and CTA standardised resolutions possible within pixel rate and horizontal/vertical frequency.     |
|        | Supported industry standards | Enhanced Display Data Channel (E-DDC)<br>Display Data Channel Command Interface (DDC/CI)                        |
| Audio  | Transmission type            | Stereo<br>Transparent   |
|        | Resolutions                  | 24 bit digital  |
|        | Sampling rate                | up to 96 kHz  |
|        | Bandwidth                    | 22 kHz  |
|        | Audio support                | Analog  |
| Serial | Standard                     | RS232   |
|        | Transparent transmission     | yes   |
|        | Data rate                    | max. 230,400 bps  |

|                      |  |   |
|----------------------|--|---|
|                      | Signals                                | TxD<br>RxD<br>DTR<br>DSR<br>RTS<br>CTS<br>DCD |
| Network              | Quantity                               | 2   |
|                      | Medium                                 | CAT5<br>CAT6<br>CAT7                          |
|                      | Data rate                              | 10 Mbit/s<br>100 Mbit/s<br>1 Gbit/s           |
| Maintenance          | Update via                             | ConfigPanel (Network)                         |
|                      | Serviceport settings                   | 230400bps (8/N/1)                             |
| Housing              | Material                               | Anodised aluminium                            |
|                      | Width ca.                              | 436 mm  |
|                      | Height ca.                             | 44 mm   |
|                      | Depth ca.                              | 284 mm  |
|                      | IP protection class                    | IP20  |
|                      | Weight ca.                             | 3.2 kg  |
| Operating conditions | Operating environment temperature      | 5 °C to 45 °C                                 |
|                      | Operating air humidity, non-condensing | 0 % to 80 %                                   |
|                      | Area of application                    | Indoor use                                    |

|              |  |   |
|--------------|--|---|
|              | Maximum operating altitude above sea level | 3,048 m   |
|              | Storage environment temperature            | -10 °C to 55 °C   |
|              | Storage air humidity, non-condensing       | 0 % to 85 %   |
|              | MTBF                                       | 150,000 h at 25°C   |
|              | Conformities                               | CE compliant (see downloads)<br>UKCA compliant (see downloads)<br>FCC compliant (see manual)<br>TAA compliant (see downloads)<br>EAC compliant (see downloads)<br>RoHS compliant (see downloads)<br>WEEE (reg. no. DE30763240)<br>REACH compliant (see downloads) |
| Power supply | Quantity                                   | 2   |
|              | Type                                       | Internal  |
|              | Input voltage                              | 100-240 VAC   |
|              | Input frequency                            | 60-50 Hz  |
|              | Current consumption                        | 0.7-0.3 A   |
|              | Power consumption max.                     | 28.2 W  |
|              | Heat output max.                           | 25.2 W  |

## ACCESSORY PRODUCTS

| Image | Description   | Article number |
|-------|---|----------------|
|       | <b>USB-Service-2 cable 2m</b><br>Cable for system updates and configuration                           | A6200103       |
|       | <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>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       |
|       | <b>RS232-M/F-5 cable RS232 5m</b><br>Cable to connect a serial device                                 | A6300025       |
|       | <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>DVI-D-DL-M/M-3 cable DVI-D 3m</b><br>Single cable for connecting a digital dual-link video channel | A6300164       |
|       | <b>DVI-D-DL-M/M-5 cable DVI-D 5m</b><br>Single cable for connecting a digital dual-link video channel | A6300104       |

## RELATED PRODUCTS

| Description  | Article number |
|--|----------------|
| <b>DL-Vision(S)-MC2-AR-CON</b><br>Console module to receive Dual-Link-DVI signals via fiber singlemode | A1220052       |

## MORE VARIANTS

| Description  | Article number |
|--|----------------|
| <b>DL-Vision(S)-AR-CPU</b><br>Computer module to extend Dual-Link-DVI signals via fiber singlemode       | A1210066       |
| <b>DL-Vision(S)-ARU2+CPU</b><br>Computer module to extend Dual-Link-DVI signals via fiber singlemode     | A1210187       |
| <b>DL-Vision(S)-MC2-ARU2+CPU</b><br>Computer module to extend Dual-Link-DVI signals via fiber singlemode | A1210188       |

# 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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