

DL-VISION(M)-ARU2+CPU

KVM extenders, Article number A1210190



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 |
| 1 | DVI-D-DL-M/M-2 cable DVI-D 2m | A6300100 |
| 2 | USB-AM/BM-2 cable USB 2m | A6300113 |
| 1 | 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 | 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)
- USB 2.0 with Hi-Speed (separate transmission line, transparent, all USB classes)

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
- 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 | 400 m (50.0/125µm, OM4 - 4700MHz*km) 300 m (50.0/125µm, OM3 - 2000MHz*km) 82 m (50.0/125µm, OM2 - 500MHz*km) 66 m (50.0/125µm) 33 m (62.5/125µm, OM1 - 200MHz*km) 26 m (62.5/125µm) |
| | Laser class | Class 1 |
| | Type of interface | LC-Duplex |
| | Wavelength | 850 nm |
| | Medium | Fiber MM |
| | Data rate | 10 Gbit/s |
| Video input | Quantity | 1 |











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|-------|--------------------------------|---|
| | 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) 4096 × 2160 (30 Hz) 2048 × 2160 (60 Hz) 2048 × 2048 (60 Hz) 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) Display Data Channel Command Interface (DDC/CI) |
| Audio | Transmission type | Stereo Transparent |
| | Resolutions | 24 bit digital |
| | Sampling rate | up to 96 kHz |
| | Bandwidth | 22 kHz |
| | Audio support | Analog |
| USB | Separate USB transmission port | yes |
| | Specification | USB 2.0 |
| | Medium | Fiber MM |

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|-------------|--------------------------|---|
| | Transmission rate | max. 480 Mbit/s (Hi-Speed) |
| | Range | max. 550 m |
| | Power (output) | 500 mA (HighPower) |
| | USB classes | All |
| Serial | Standard | RS232 |
| | Transparent transmission | yes |
| | Data rate | max. 230,400 bps |
| | Signals | TxD RxD DTR DSR RTS CTS DCD |
| Network | Quantity | 2 |
| | Medium | CAT5 CAT6 CAT7 |
| | Data rate | 10 Mbit/s 100 Mbit/s 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 |

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|----------------------|--|---|
| | Depth ca. | 284 mm |
| | IP protection class | IP20 |
| | Weight ca. | 3.09 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 | 170,000 h at 25°C |
| | Conformities | CE compliant (see downloads) UKCA compliant (see downloads) FCC compliant (see manual) TAA compliant (see downloads) EAC compliant (see downloads) RoHS compliant (see downloads) WEEE (reg. no. DE30763240) REACH compliant (see downloads) |
| Power supply | Quantity | 2 |
| | Type | Internal |
| | Input voltage | 100-240 VAC |
| | Input frequency | 60-50 Hz |
| | Current consumption | 0.5-0.2 A |

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| | Power consumption max. | 20-20.6 W |
| | Heat output max. | 17-17.6 W |

ACCESSORY PRODUCTS

| Image | Description | Article number |
|---|---|----------------|
|  | USB-Service-2 cable 2m Cable for system updates and configuration | A6200103 |
|  | PowerCable-3 Standard cable 3m Cable to connect the power supply type Germany | A6300066 |
|  | PowerCable-5 Standard cable 5m Cable to connect the power supply type Germany | A6300065 |
|  | USB-AM/BM-3 cable USB 3m USB cable, Type-A Plug/Type-B Plug | A6300114 |
|  | USB-AM/BM-5 cable USB 5m USB cable, Type-A Plug/Type-B Plug | A6300111 |
|  | RS232-M/F-5 cable RS232 5m Cable to connect a serial device | A6300025 |
|  | Audio-M/M-3-ferrite cable 3m Audio connection cable with ferrite core | A6300118 |
|  | Audio-M/M-5-ferrite cable 5m Audio connection cable with ferrite core | A6300085 |
|  | DVI-D-DL-M/M-3 cable DVI-D 3m Single cable for connecting a digital dual-link video channel | A6300164 |
|  | DVI-D-DL-M/M-5 cable DVI-D 5m Single cable for connecting a digital dual-link video channel | A6300104 |

RELATED PRODUCTS

| Description | Article number |
|---|----------------|
| DL-Vision(M)-ARU2-CON Console module to receive Dual-Link-DVI signals via fiber multimode | A1220225 |

MORE VARIANTS

| Description | Article number |
|---|----------------|
| DL-Vision(M)-AR-CPU Computer module to extend Dual-Link-DVI signals via fiber multimode | A1210068 |
| DL-Vision(M)-MC2-AR-CPU Computer module to extend Dual-Link-DVI signals via fiber multimode | A1210072 |
| DL-Vision(M)-MC2-ARU2-CPU Computer module to extend Dual-Link-DVI signals via fiber multimode | A1110188 |

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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