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Quick Installation Guide

**HD-TVI/AHD/HDCVI/CVBS with
RS485 Fiber Optical Extender**

MAM-5MF1001MTA

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Safety instructions

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General safety instructions

- Before switching on and operating the system, first read this safety advice and the operating instructions.
- Keep the operating instructions in a safe place for later use.
- Installation, commissioning and maintenance of the system may only be carried out by authorised individuals and in accordance with the installation instructions - ensuring that all applicable standards and guidelines are followed.
- Protect the devices from water penetration and humidity, since these can cause lasting damage.
- Should moisture nevertheless enter the system, under no circumstance switch on the devices under these conditions, instead send them for examination to an authorised specialist workshop.
- The system must never be used outside of the technical specifications, since this can destroy it.
- The device must be protected from excesses of heat, dust, humidity and vibration.
- When separating the system from the voltage supply, only ever use the plug to pull out the cable. Never pull directly on the cable itself.
- Lay the connecting cables carefully and check that they are not mechanically stressed, kinked or damaged and that no humidity can penetrate into them.
- In the event of a malfunction, please inform your supplier.
- Maintenance and repairs may only be carried out by authorised specialist personnel.
- The system must be isolated from the power supply before opening the housing.
- The device may only be opened by qualified service personnel. Unauthorised access invalidates any warranty claim.
- Connection cables should always be exchanged through Videor E. Hartig GmbH.
- Use only original spare parts and accessories from Videor E. Hartig GmbH.
- The housing should only be cleaned using a mild domestic cleaning agent. Never use solvents or petrol as these can permanently damage the surface.
- During installation, it is essential to ensure that the seals provided are correctly installed and that they are not displaced during installation. Damaged seals must not be installed and will invalidate any warranty.
- The installer is responsible for the maintenance of the enclosure as per the technical data, e.g. by sealing the cable outlets with silicone.
- Wire end ferrules should be used when shortening the flexible connection cables.
- The devices may only be operated in the temperature range indicated in the data sheet and within the defined air humidity range.

WEEE (Waste Electrical & Electronic Equipment)

Correct Disposal of This Product (Applicable in the European Union and other European countries with separate collection systems).



This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources. Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling. Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.

Graphical symbols

Please pay attention to the safety instructions, and carefully read through this instruction guide before initial operation.



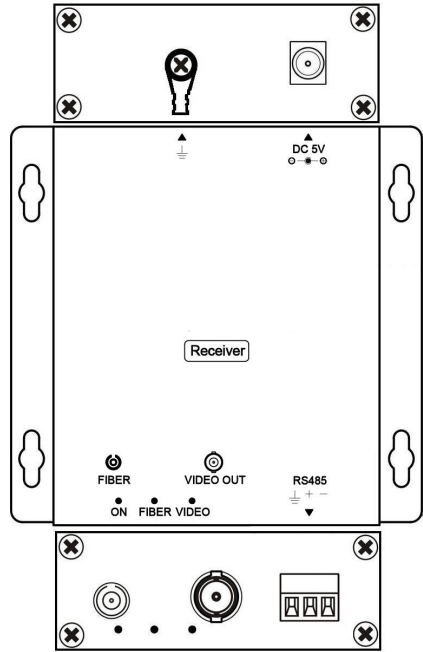
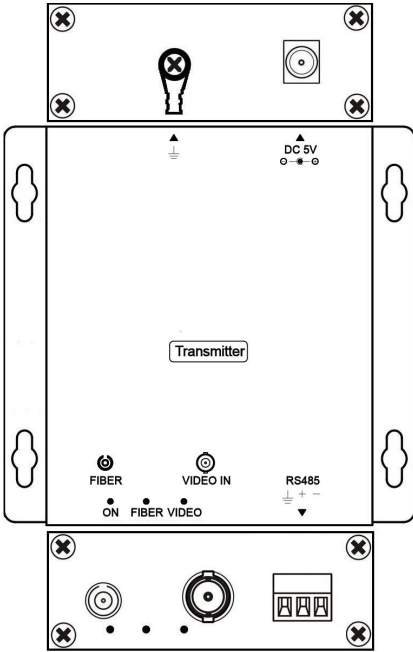
Important points of warning are marked with a caution symbol.



Important points of advice are marked with a notice symbol.

Panel View

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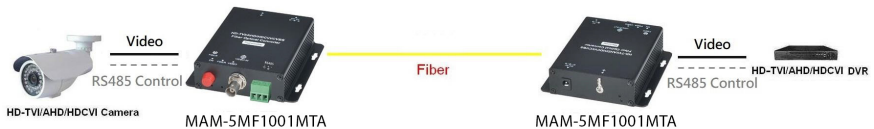
HD-TVI/AHD/HDCVI/CVBS Fiber Optical Extender

MAM-5MF1001MTA support HD-TVI/AHD/HD-CVI/HD-TVI/CVBS 4-in-1 Video signal over Fiber cable. Based on digital uncompressed HD composite video technologies which convert the AHD, HDCVI, HD-TVI or CVBS composite signals to optical signals to reach long distance up to 20 km.

Features

- Digital and non-compression coding technology
- Support HD-TVI/AHD/HDCVI/CVBS and RS485 data signal over fiber optical cable
- Single mode: 20 km, Multimode: 2 km
- Support resolution: 720p/25,30,50,60 1080p/25,30
- Working distance up to 20 km
- Built in LED indication
- Plug and play, simple installation

Installation View



LED Indication

- On: Power on
- Fiber: linking
- Video: input source detected

Cable & Transmission Distance

Link cable recommend use high quality FC Single – Mode Fiber optic cable. The transmission distance will be affected by different quality of Camera, DVR and BNC connector, cable, installation etc.

Specifications

Art.-No.	MAM-5MF1001MTA (Transmitter)	HD-TVI OUTPUT (Receiver)
Video Format	HD-TVI/AHD/HDCVI/CVBS	
Video Connector	BNC 50 Mhz 75 ohm	
Fiber Port	FC, single fiber, single/multimode mode	
Distance	0-20 km	
Input/output Wavelength	TX1310, RX1550nm	TX1550, RX1310nm
Input/output Level	>500mVP-P	1Vp-p
TX Input Return Loss	>15dB	
Input/output Impedance	75Ω	
Rx up/down time	<0.8ns	
Rx Max. Jitter	<0.2UI	
Video Capture Resolution	10 bits	
Baud Rate	1200-9600bps	
BER	< 10 ⁻⁹	
Operation Mode	Half Duplex	
Power	DC5V 1A	DC5V 1A
Power Consumption	≤5W	≤5W
Humidity	Operation: -40 to 75°C, Storage: -20 to 85°C, Humidity: up to 95%	
Weight	200 g	

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Further information

The manual is also available from the eneo web site at www.eneo-security.com.



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Version 10/2018