SC&T

HD-TVI/AHD/HDCVI/CVBS Extension Series

User Manual

Model : **HD401F-5M**

5MP HD-TVI/AHD/HDCVI/CVBS with RS485

Fiber Optic Extender

HD401FT-5M   HD401FR-5M

Introduction

HD401F-5M is coaxial to fiber optic media converter that can send uncompressed 5MP HD-TVI/ AHD/ HDCVI/ CVBS and RS485 signal for extra-long distance. The product is a perfect solution for CCTV security system to send camera video to remote DVR for recording.

Features

- Supports HD-TVI, AHD, HDCVI, PAL, NTSC, SECAM video formats.
- Resolution up to 5MP (2560 x 1920).
- Signal extension up to 20KM over single mode fiber optic cable.
- Supports half-duplex RS485 transmission.
- Built-in 4kV surge protection in terminal blocks.

Installation view

Cable & Transmission Distance

The transmission distance may vary by the quality of connected devices (Cameras, DVRs), connectors, and cables.

1. Fiber Optic Cable

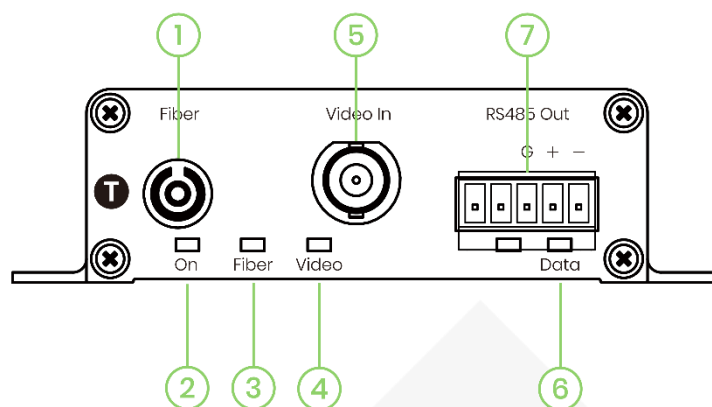| Connector	Type	Diameter	Max. Distance
FC	Single Mode	9/125μm	20KM

2. Coaxial Cable

Connector	Type	Impedance	Max. Distance
BNC	RG59/6U	75Ω	100M

Resolution

Pixels	Frame Rate
1MP (1280 x 720)	30/50 fps
1.2MP (1280 x 960)	30 fps
2MP (1920 x 1080)	25 fps
3MP (2408 x 1536)	18 fps
4MP (2560 x 1440)	14 fps
5MP (2560 x 1920)	11 fps

Panel View

No.	Interface/ Indication	Description
1	Fiber FC connector	To connect a single mode fiber cable
2	On LED	To indicate the status of power
3	Fiber LED	To Indicate the connecting status of fiber port
4	Video LED	To indicate the connecting status of BNC port
5	Video In/Out	To connect a RG59/ 6U coaxial cable
6	Data LED	To indicate the connecting status of RS485
7	Terminal Blocks	To connect a RS485 controllable device
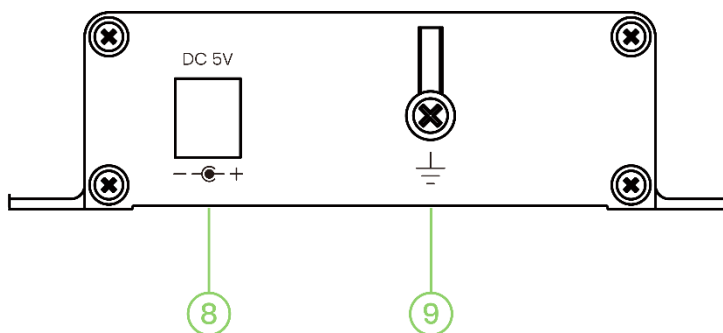
No.	Interface/ Indication	Description
8	Power Jack	To connect a DC5V 1A power adapter
9	Grounding	To connect a wire to the earth

Description

LED Indication

LED Name	LED Color	Description
On	Green ON	Power On
Fiber	Green ON	Fiber optic cable linked
Video	Green ON	Video source detected
Data	Green ON	RS485 signal transferring

RS485 Pin Assignment
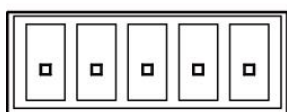
Pin No.	Designation
-	RS485-
+	RS485+
G	GND
Reserved	
Reserved	

Package Included

No.	Item	Amount
1	HD401F4T-5M (Tx)	1
2	HD401F4R-5M (Rx)	1
3	DC 5V1A Power Adapter	2
4	Screw	8
5	Screw Plug	8
6	Rubber Pads	8

Specification

ITEM NO.	HD401FT-5M	HD401FR-5M
Video Format	HD-TVI/ AHD/ HDCVI/ CVBS	
Max. Video Resolution	5MP (2560 x 1920) @11fps	
Max. Distance	20Km	
Video Connector	1 x 75Ω (Unbalanced) BNC	
Fiber Connector	1 x FC	
Wavelength	1310nm	1550nm
Bandwidth	8bit	
RS485 Interface	5-pin Terminal Block	
RS485 Operation	Half-duplex (From Rx to Tx)	
Baud Rate	0-200Kbps	
Power Supply	DC5V 1A	
Power Consumption	≤3W	
Ambient Temperature	Operation: -15 to 60°C, Storage: -40 to 85°C, Humidity: 5~95%	
Dimensions mm	104.5 x 125.5 x 28.5	
Weight g	190	195

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