



Fiber Optical Solution

User Manual

Model : HD401F4-5M

4 Channel HD-TVI/AHD/HDCVI/CVBS with RS485
Fiber Extender 20KM



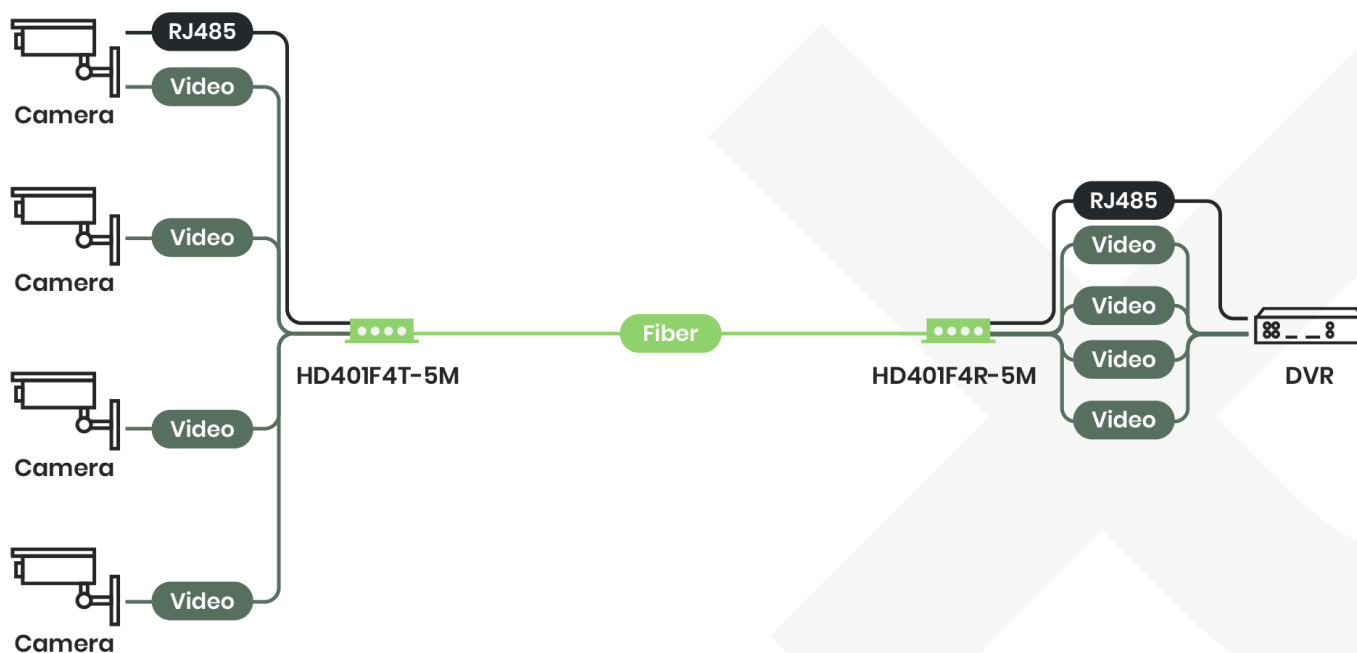
Introduction

HD401F4-5M is a coaxial-to-fiber-optic media converter that can send 4 uncompressed 5MP HD-TVI/ AHD/ HDCVI/ CVBS and RS485 signals for an extra-long distance. The product is a perfect solution for a CCTV security system to send multiple camera videos to a 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	9/125 μ m	20KM
FC	Multi-Mode		2KM

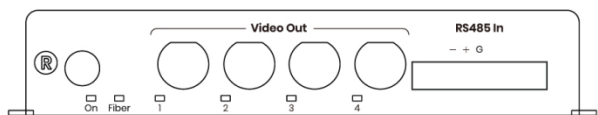
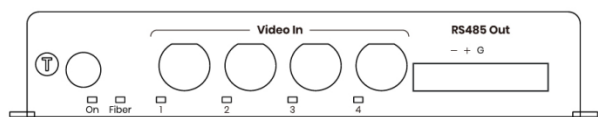
2. Coaxial Cable

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

Resolution

Video Format	Pixels	Frame Rate
HD-TVI/AHD/HDCVI/CVBS	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

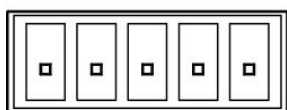


LED Indication

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

G + -



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

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.	HD401F4T-5M	HD401F4R-5M
Support		
Video Format	HD-TVI/ AHD/ HDCVI/ CVBS	
Max. Video Resolution	5MP (2560 x 1920) @11fps	
Video Bandwidth	8bit	
Max. Distance	20KM	
Baud Rate	0-200Kbps, Half-duplex (From Rx to Tx)	
Input/ Output Wavelength	TX1310, RX1550nm	TX1550, RX1310nm
Input/ Output Level	Greater than 500mVP-P	1Vp-p
Return Loss	Greater than 15dB	
Up/ Down Time		Less than 0.8ns
Max. Jitter		Less than 0.2UI
Ports & Interfaces		
Video Input	4 x BNC (50Mhz 75Ω)	1 x FC, Single/ Multi-mode
Video Output	1 x FC, Single/ Multi-mode	4 x BNC (50Mhz 75Ω)
RS485 Interface	1 x 5-pin Terminal Block	1 x 5-pin Terminal Block
Power		
Power Supply	DC5V 2A	
Power Consumption	≤6W	
Ambient Temperature		
Operation	-40 to 75°C	
Storage	-40 to 85°C	
Humidity	5~95%	
Physical Characteristics		
Dimensions	173 x 167 x 28mm	173 x 167 x 28mm
Weight	570 g	570