

# Mini 4K HDMI Video Transmission Over 1 Fiber Link



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**HF Series** 

### **Overview**

Vi-Link High Quality HDMI Video equipment: The HF4 Mini HDMI Video Link is a fiber optic transmitter and receiver designed to send 1 channel of 1.4a compliant 4K HDMI video and embedded audio over one multimode or single mode fiber.

The HF4 link supports HDCP automatically transmission content protected video but it is also can operate in DVI mode when the HDCP compliance is not required. Optical transmission supports uncompressed lossless HDMI 1.4a signal over multimode or single mode fiber at a resolution of 4Kx2K.

The HF4T transmitter converts HDMI signal to single 10Gb/s serial data stream then transmits over fiber optic cable. The HF4R's AGC receiver converts the 10Gb/s serial data back to the HDMI signal for distances from back-to-back up to 20 Km with single mode fiber which is unaffected by changes in fiber path attenuation due to aging or splicing points.

The fiber link also meets all of the standards of interference immunity to ensure the stability of the signal.

The mini HF4 modules offer one fiber with a standard locking LC optical connector. It is an ideal for large - screen displays, conferencing systems and high-end home entertainment.

In addition, these HF4T & HF4R modules can operate on +5VDC power from HDMI connect or from standard micro-USB power adaptor.



### **Features**



- 4K x 2K 3D HDMI Video Resolution
- 10 Gigabits Serial Data Transmission
- Compliance HDCP and HDMI 1.4a
- Support DDC, CEC, HPD
- No Settings or Adjustments
- Automatic recognizes HDCP, EDID, CEC
- Transmission Up To 2 Km @ MM Fiber
- Transmission Up To 20 Km @ SM Fiber
- Standard LC Connector
- Integrated USB connector for Power
- Dual Supply via HDMI Port & USB port

### **Applications**

- City and Highway Monitoring
- Metro and Railroad Monitoring
- Oil & Gas Pipeline Monitoring
- Airport Security Systems
- Utility Systems
- Military Applications
- Premise Networks
- Any HDMI Video Transmission

### **Order Information**

Model	Descriptions
HF4T	1-ch Mini 4K x 2K HDMI Video Transmitter ( <b>Tx</b> ) 1310nm SM LC, 20Km, Dual Power Supply (HDMI & USB)
HF4R	1-ch Mini 4K x 2K HDMI Video Receiver ( <b>Rx</b> ) 1310nm SM LC, 20Km, Dual Power Supply (HDMI & USB)

# **Technical Specifications**



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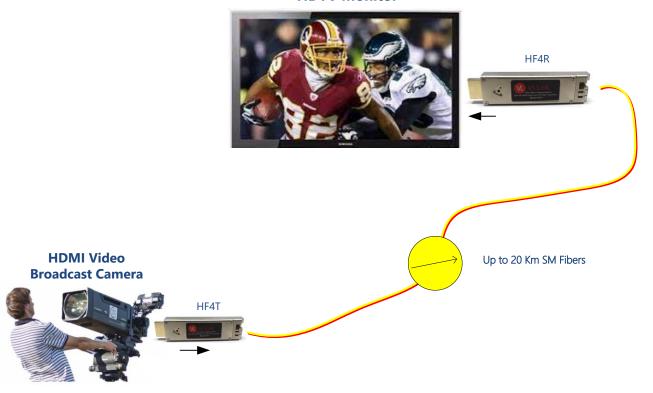
# **Specifications**

System:			
Error Rate	1 in 10 <sup>12</sup> or Better		
Fiber Transmission	10 Gigabits per second		
Optical:			
Transmitter	Lasers		
Tx	1310nm @ 10Gbps		
Receiver	PIN		
Rx	1310nm @ 10Gbps		
Fiber Distance	20Km @ SM, 2Km @ MM		
Connector	LC		
Environment:			
Operating	-34 <sup>0</sup> C to +74 <sup>0</sup> C		
Storage	$-40^{\circ}$ C to + 95°C		
Humidity	98% Non-Condensing		

HDMI Video Interface:			
Channel	1		
Video Bandwidth	Up to 4K x 2K x 3D		
Refresh Rate	120 Hz		
Depth	Up To 48 Bits		
Full HDMI Support	HDMI 1.4a With HDCP DDC, CEC, HPD		
No Settings or Adjustments	Automatic Recognizes HDCP, EDID, CEC		
Connector	Hot-Pluggable 19" HDMI Type A		
Physical:			
Dimensions	3.5" x 0.75" x 0.4"		
Power:			
Dual Power	+5V HDMI Or USB Power Adapter		

## **Application**

#### **HDTV Monitor**



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