

8-BIT FIBER OPTIC VIDEO TRANSMISSION FOR FIXED CAMERAS

4 Channel Simplex Video

■ System Design

Fiber Optic Video Transmitter & Receiver HOE8541 can transmit 4-channel digital simplex video for fixed camera, no audio, no data.

Stand-alone or rack-mount All units of HOE8541-RX come in an insert card version. The cards can be inserted into our 17-slot, 19inch 3U rack-mountable card cage (HOE9300).

Single-Mode or Multi-Mode HOE8541 can support FC/PC, ST/PC connectors. The Transmission distance range according to the Optical Budget. Manufacturer's standard is: Single-mode 20km, Multi-mode 2KM.

■ Features

- Uncompressed Digital Composite Video over one fiber
- Compatible with all PAL, NTSC, SECAM Video Systems
- Multimode Fiber Support for Distances up to 2 km
- Single-Mode Fiber Support for Distances up to 20 km
- LED Status Provide Rapid Indication of Operating Parameters
- No EMI or RFI and no ground loops.
- Stand alone or rack-mount
- Produce according to customer's specifications, providing OEM



■ Specifications:

General Specifications	
Power Supply	5VDC, from adaptor for stand-alone units; from subrack mount for slide-in cards
Power Consumption	<5W
Operating Temperature	-40 °C ~ +80 °C
Storage Temperature	-40 °C ~ +85 °C
Operating Humidity	0-95% (non-condensing)
MTBF	>100,000 hours
Dimensions	172 x 131 x 27mm
Weight	400g/pc
Optics	
Optical wavelength	1310nm
Fiber Type	Multi-mode or single-mode fiber
Link Distance	Multimode: <2km; Single-mode: <20km
Connector	Simplex FC (ST on request)
Acceptable highest optic loss budget for single-mode fiber: >18dB	
Video	
Numbers of Channels	4 channel simplex video
Video Connector	BNC female
Input / Output Impedance	75 Ω(unbalanced)
Video Input Level	1.0 Vpp
Video Bandwidth per Channel	50Hz~6.5 MHz
Video SNR	>60dB
Differential Gain(DG)	<3%
Differential Phase (DP)	<1.2°
Tilt	<1.8%



■ **Ordering Information:**

Item No.	Fiber Type	Transmission distance	Wavelengths	Video	Data	Audio
HOE8541S-TX	Single-mode	20KM	1310nm	4-ch, simplex	--	--
HOE8541S-RX	Single-mode	20KM	1310nm	4-ch, simplex	--	--
HOE8541S-RX-Card	Single-mode	20KM	1310nm	4-ch, simplex	--	--
HOE8541M-TX	Multi-mode	2KM	1310nm	4-ch, simplex	--	--
HOE8541M-RX	Multi-mode	2KM	1310nm	4-ch, simplex	--	--
HOE8541M-RX-Card	Multi-mode	2KM	1310nm	4-ch, simplex	--	--

Remark: TX: Transmitter, RX: Receiver, S: Single-mode, M: Multi-mode, Card: Card insert version

Note:

- Optical transmission distance is limited to optical loss of the fiber and any additional loss introduced by connectors, splices and patch panels.
- Maximum transmission distance is also limited by fiber bandwidth.
- Power adapter is manufactured by third party and is supplied with fitted screw-terminal output cables. Power adapter included (for standalone) US and European power plug.
- Please feel free to consult factory for any special requirement and customization
- Due to continuous improvement, all products specifications are subject to change without further notice.

