

Doteck

Doteck HD Series

HD-SDI Thumb Type Digital Video fiber optic Transmission System



Features

- (1) Pathological test passed with UK HD video test and measurement manufacturer PHABRIX
- (2) HD-SDI/SDI/ASI signal auto recognition, not need select by hand
- (3) Compliant with the standards of SMPTE292M, SMPTE259M, SMPTE297M, SMPTE310M, SMPTE305M
- (4) Compliant with the standard of DVB-ASI
- (5) Auto adaption to the speed of HD/SD-SDI 143M, 177M, 270M, 360M, 540M, 1483.5M, 1485Mbps, or DVB-ASI
- (6) When signal input, with automatic cable equalization function, and when signal output, with driver function
- (7) With re-clocking function at transmitter and receiver
- (8) Perfect LED indicators design, very convenient to monitor transmitter and

receiver work well or not

(9) PCB boards made with environment friendly Pb-free

(10) PCB boards made with multilayer design, to ensure stable and reliable signal transmission

(11) All components, including connectors, are ordered from public-known manufacturers in the world, high stability and reliability ensurance

(12) Enclosure box material is made of aluminum, light weight, small size and easy to carry

Introduction

Dotek HD series digital video fiber optic transmission system can transmit one 1485Mbps HD-SDI high definition digital video, or one 270Mbps SDI standard definition digital video or one DVB-ASI stream through one single mode fiber or multimode fiber with the standards of SMPTE292M, SMPTE259M, SMPTE297M, SMPTE305M, SMPTE310M.

Due to the advanced digital fiber optic transmission technology, almost you need not make any adjustments, simple to set up, easy to operate.

Dotek HD series transmitter equipped with auto-cable equalization circuit, and cable driver circuit available at receiver.

Dotek HD series, both at the transmitter and receiver, signal jitter elimination circuit available, to ensure high quality signal transmission over long distance fiber cable.

Technical Specifications

HD-SDI input	
Signal standard	SMPTE292M, SMPTE259M, SMPTE297M, SMPTE305M, SMPTE310M, DVB-ASI
Channel	1
Signal level	>380mVp-p
Auto-cable equalization	>200m@1485Mbps, (Belden 1694A cable) >350m@270Mbps, (Belden 1694A cable)
Input return loss	>10dB@1485Mbps

Impedance	75 Ω
Connector	BNC
HD-SDI output	
Channel	1
Signal level	800mVp-p \pm 10%
HD-SDI Rise/Fall time	<270ps@1485Mbps
SDI Rise/Fall time	<0.6ns@270Mbps
HD-SDI Jitter	<0.2UI(134ps)@100KHz <1.0UI(673ps)@10Hz
SDI Jitter	<0.2UI(740ps)@10Hz <0.2UI(740ps)@1KHz
Impedance	75 Ω
Connector	BNC
Physical	
Dimension(H×W×D, mm)	22×22×100(mm)
Power supply	5V/2A
Power consumption	<5W
Operation temperature	0-50°C
Relative humidity	0-95%, non-condensing
LED status indicator	Power, optical link, video activity
Fiber optic link	
Fiber type	Single mode
Number of fiber	1
Wavelength	1310nm /1550nm
Distance	0-20km, or 0-40km optional
Connector	LC/PC

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