

Doteck

Doteck A1 Series

1-channel Video and 2-channel Audio fiber optic Transmission System



Features

(1) PAL(625/50) and NTSC(525/60) standard auto-recognition

- (2) The technical specifications are better than broadcast quality
- (3) Video 10bit A/D conversion, audio 20bit A/D conversion
- (4) Video AGC(auto gain control) functionality, poor video signal input tolerance
- (5) Audio output balance/unbalance can be transformed automatically, ESD(Electric Static Discharge) functionality, more safer , more stable
- (6) Transmission distance up to 120km without relay
- (7) All components, including connectors, are ordered from public-known manufacturers in the world, high stability and reliability ensurance
- (8) Enclosure box material is made of aluminum, elegant appearance, light weight
- (9) PCB boards made with environment friendly Pb-free and RoHS compliant
- (10) Convenient instructions of LED status, video/audio activity, optical link, power supply etc.

Introduction

Doteck A1 series is high performance digital fiber optic transmission system. The transmitter input 1-channel composite analog video and 2-channel analog audio. The receiver output 1-channel composite analog video and 2-channel analog audio.

The quality of video, audio non-compressed transmission with digital designs is much superior to the analog transmission based on amplitude frequency modulation designs.

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

Technical Specifications

Analog video	
Channel	1
Bandwidth	7MHz
Signal resolution	10Bit

Input level	0.6-1.6Vp-p
Output level	1Vp-p
Video standard	525/625 lines
Color delay	<10ns
Differential gain	<1.0%
Differential phase	<1 degree
SNR(weighted)	>70dB
Impedance	75Ω
Connector	BNC
Analog audio	
Channel	2
Operating mode	Balance, unbalance
Signal resolution	20Bit
Level	17.4Vp-p(+18dBm)
Frequency response	20Hz-20KHz@-0.2dB
THD	<0.2%
SNR(weighted)	>88dB@1KHz
Channel insulation	>90dB@1KHz, >90dB@20KHz
Impedance	600Ω
Connector	XLR
Physical	
Dimension(H×W×D, mm)	
19-inch 1RU	44×433×346(mm)
Mini box	44×216.5×230(mm)
Dual power supply	130-260VAC, 50/60Hz
Power consumption	<10W
Operation temperature	0-50℃
Relative humidity	0-95%, non-condensing
LED status indicator	Power, optical link, video/audio activity
Fiber optic link	
Fiber type	Single mode
Number of fiber	1
Wavelength	1310nm/1550nm

Distance	0-40km, or 0-80km, or 0-120km optional
Connector	FC/PC, or SC/PC

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