

# CR-uSF AV 200T

## COMPONENT/FIBER transmitter



CR-uSF AV 200T



Size (mm):  
162(L)×195(W)×35(H)

### Product overview

CR-uSF AV 200T is a single core multi-format optical fiber transmitter supporting multiple format component video. It can convert CV, Y/C, YPbPr, VGA, DVI, HDMI video signals and Audio signal into optical signal for transmission. It can be matched with the matrix. It supports RS-232 and IR pass through.

### Features

- Support for single core multi-format fiber to transmit CV, Y/C, YPbPr, VGA, DVI, and HDMI signals.
- With HDMI-Monitor video output monitor function.
- Support transmission of synchronous Audio signal, IR signal and RS-232 signal
- Support the field refresh EDID
- Transmission distance is up to 300M.

### Specifications

The parameter name	CR-uSF AV 200T
Supported protocols	DVI1.0,HDMI1.3a,HDCP1.3
PIXEL bandwidth	165MHz, all digital
Interface bandwidth	2.25Gbps, Full digital (a total of 6.75Gbps, each color is 2.25Gbps)
Maximum supported resolution	PC 1920x1200@60_24bit Color depth HDTV 1920x1080P@60_36bit Color depth
Clock jitter	<0.15 Tbit
Rise time	<0.3Tbit (20%~80%)
Fall time	<0.3Tbit (20%~80%)
Signal type	DVI-D/ HDMI digital T.M.D.S signal in DVI 1.0/HDMI 1.3a specification
Interface	The HDMI-A interface (Type A connector)
Signal strength	T.M.D.S. 3.3V pp
Minimum / maximum level	T.M.D.S. 2.9V/3.3V
Impedance	50 Ω
Input EDID	Using the default EDID, (Support terminal EDID mapping to input)
Maximum DC offset error	+/-15mV
The recommended maximum input distance	Less than 10 meters, in the 1920x1080p@60 (recommended the use of certified HDMI special wire, as Molex TM wire)

### Specifications

The parameter name		CR-uSF AV 200T			
Interface		1the HD-15 female interface			
Signal type		Composite video CV	Y/C video	Component video YPbPr	VGA video
Component video input	Gain	0dB	0dB	0 dB	0 dB
	Bandwidth	150MHz @ -3dB	150MHz @ -3dB	350MHz @ -3dB	380 MHz
	Differential phase error	0.1%, 3.58-4.43 MHz	0.1%, 3.58-4.43 MHz	0.1%, 3.58-4.43 MHz	
	Differential gain error	0.1%, 3.58-4.43 MHz	0.1%, 3.58-4.43 MHz	0.1%, 3.58-4.43 MHz	
	Signal strength	1Vpp: composite video (CVBS)	1Vpp: STerminal video (Y/C)	1V pp: (Component video in Y)	0.63Vpp ~ 0.9 Vpp
	Minimum / maximum level	Analog signal: -2V/+2V	Analog signal: -2V/+2V	Analog signal: -2V/+2V	RGB signal: 0V/1.0V HV signal: 0V/5.0V
	Input impedance	75 Ω	75 Ω	75Ω	75Ω
	Echo loss	<-30dB@5MHz	<-30dB@5MHz	<-30dB@5MHz	<-30dB@5MHz
	Supported protocols	DVI1.0,HDMI1.3a,HDCP1.3			
	PIXEL bandwidth	165MHz, all digital			
Interface bandwidth	2.25Gbps, Full digital (a total of 6.75Gbps, each color is 2.25Gbps)				
Maximum supported resolution	PC 1920x1200@60_24bit Color depth HDTV 1920x1080P@60_36bit Color depth				
DVI video input	Clock jitter	0.15 Tbit			
	Rise time	<0.3Tbit (20%~80%)			
	Fall time	<0.3Tbit (20%~80%)			
	Signal type	DVI-D/ HDMI digital T.M.D.S signal in DVI 1.0/HDMI 1.3a specification			
	Interface	DVI-D Interface			
	Signal strength	T.M.D.S. 3.3V pp			
	Minimum / maximum level	T.M.D.S. 2.9V/3.3V			
	Input impedance	50Ω			
	Input EDID	Using the default EDID, (Support terminal EDID mapping to input)			
	Maximum DC offset error	+/-15mV			
Audio signal input	The recommended maximum input distance	Less than 10 meters, in the 1920x1080p@60(recommended the use of certified DVI special wire, as Molex TM wire)			
	Interface	3.5mm stereo audio socket			
	Gain	0 dB			
	Frequency response	20 Hz ~ 20 kHz,			
	Total harmonic distortion + noise	0.01% @ 1 kHz (Under rated voltage)			
	The signal-to-noise ratio (S / N)	>80dB at Vin=0 V			
	Stereo separation	>80dB @ 1 kHz			
	Common mode rejection ratio (CMRR)	>75dB @: 20 Hz ~ 20 kHz			
	Signal type	Stereo			
	Impedance	Input: >10 kΩ(Balanced or unbalanced connection) Output: 50Ω(Unbalanced connection)			
IR Infrared	Maximum input level	3Vpp			
	Gain error	±0.1dB @20 Hz ~ 20 kHz			
	Interface	Input: 3.5mm stereo audio socket		Output: 3.5mm stereo audio socket	
	Signal type	Input: Digital Output: Digital			
	Output level type	PLL level			
	Wavelength	850nm			
	Carrier frequency of input level	38KHz			

Specifications

The parameter name	CR-uSF AV 200T
Interface	3.5mm stereo audio socket
Signal type	Digital
Level type	RS-232 level
Signal direction	Two-way communication
Baud rate	Min: 4800bps Max: 115200bps
Data bits	8
Stop bit	1
The correction bits	None
Flow control	None
Level delay	500 ns
Level peak	+/-15V
The fiber output interface	SC connector
Fiber type	Multimode/Single Mode (Optional)
Wavelength	Multimode 850nm/Single Mode: 1310 -1620nm (Optional)
Interface bandwidth	Positive: 6.25Gbps, Reverse: 3.125Gbps
Clock jitter	<0.15 Tbit
Rise time	<0.3Tbit (20%~80%)
Fall time	<0.3Tbit (20%~80%)
The recommended maximum input distance	Om3 multimode fiber: less than 300 meters, at 1920x1080p@60. Single-mode fiber: 2`20km
Power supply	The power adapter, 12VDC/2A
Maximum power dissipation	MAX 8W
Temperature	Storage, use temperature: -20℃~+70℃
Humidity	Storage, use humidity: 10%~90%
Mean time between failures	30,000 hours
The warranty	1 year free warrant

System connection diagram

