



Presentation Scaler/Switcher CR-iMAX901HD-A

Product overview

CR-iMAX901HD-A is a scaler which has 9 video input interfaces, including CV, YPbPr, VGA, DisplayPort, HDMI, HDBaseT, can switch or scale to HDMI/HDBaseT output. The output resolution can be defined by user up to WUXGA(1920 x1200). It's a high performance scaler for education institution, conference room, demonstration hall, command center etc.

Function characteristics

- 9 video inputs: 1 x CVBS, 1 x YPbPr, 2 x VGA, 3 x HDMI, 1 x DisplayPort, 1 x HDBaseT.
- 2 video output: 1 x HDMI, 1 x HDBaseT.
- 9 analog audio input: unbalanced stereo audio, 20Hz~20KHz.
- 1 balanced stereo line out, 1 stereo speaker output with 2x20W@4Ω or 2x10W@8Ω.
- 8-level volume control per audio input, 100-level volume control for audio output.
- Maximum input/output resolution up to WUXGA (1920 x1200).
- Audio and video switching, no black screen or fragments.
- HDMI 1.3a, HDCP1.3, DisplayPort 1.1.
- Audio can be mixed or separated from HDMI input and HDMI output.
- EDID management for rapid integration of sources and displays.
- Control method: front panel, RS-232, Ethernet.

Specifications

	Parameter	CR-iMAX901HD-A
Composite Video(CV/YPbPr)	Gain	0dB
	Bandwidth	150MHz @ -3dB
	Standard	NTSC、PAL、SECAM
	Differential phase error	0.1°, 3.58-4.43 MHz
	Differential gain error	0.1%, 3.58-4.43 MHz
	Signal type	Composite video (CVBS), Component video (YPbPr/YCbCr)
	Interface	RCA female connector (4PIN), 1 x (CVBS), 1 x (YPbPr/YCbCr)
	Minimum / maximum level	Analog signal: -2V/+2V
	Impedance	75 Ω
	Echo loss	<-30dB@5MHz
Simulation of VGA video	Gain	0 dB
	Bandwidth	380 MHz
	Signal type	VGA
	Interface	DB15 female connector, 2 x VGA input
	Signal strength	0.63V p-p to 0.9 V p-p
	Impedance	75 Ω
	Echo loss	<-40dB@5MHz
DC compensation	Maximum ± 5mV	
The supported resolution	640X480 @60;800X600 @60;1024X768@60;1280X720 @60;1280X1024 @60;1600X1200 @60;1920X1080@60;1920X1200 @60;	
HDMI video	Supported protocols	HDMI1.3a, DVI1.0, HDCP1.3
	Pixel Bandwidth	225MHz
	Interface bandwidth	6.75Gbps(RGB:2.25 Gbps/per lane)
	Signal type	HDMI/DVI-D full digital T.M.D.S. Signal in HDMI 1.3a/DVI 1.0 Specification

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HDMI video	Interface	HDMI-A connector (Type A connector), 3 x HDMI input, 1 x HDMI output	Sound signal	Input/output Interface	9 x 3-pin Phoenix Connector / each way is with unbalanced audio input. 1x5 pins Phoenix connector/ audio line out, 1 x 4-pin Phoenix Connector /Audio power amplifier output
	Minimum /maximum level	T.M.D.S. 2.9V/3.3V		Gain	0 dB
	Impedance	100 Ω		Frequency response	20 Hz ~ 20 kHz,
	Input EDID	Use system default EDID,(Support Terminal EDID mapping to input terminal)		HD + Noise	0.05% @ 1 kHz (Rated Voltage)
	Maximum DC offset error	15mV		Signal to Noise Ratio	(S/N)>80dB
	The recommended maximum input distance	Less than 7m, at 1920x1080p@60 (Recommended to use special HDMI wire with authentication, like Molex TM)		Stereo channel crosstalk	>80dB @ 1 kHz
DisplayPort video	The supported resolution	640x480@60, 800x600@60, 1024x768@60, 1280x720@60, 1280x800@60, 1280x960@60, 1280x1024@60, 1360x768@60, 1366x768@60, 1400x1050@60, 1440x900@60, 1600x1200@60, 1680x1050@60, 1920x1080@50, 1920x1080@60, 1920x1200@60	Control types	Common-Mode Rejection Ratio (CMRR)	>75dB @: 20 Hz ~ 20 kHz
	Interface	20-pin DP connector, Standard, 1 x DisplayPort input		Signal type	Stereo (Imbalanced connection Audio)
	Supported protocols	DisplayPort 1.1		Impedance	Output: 50 Ω (Imbalanced connection) Input: 10 kΩ(Imbalanced connection)
	Highest transmission delay	500us		Max Input Level	+19.5dBu,
	Transmission Bandwidth	Up to 10.8Gb/S		Gain Error	±0.1dB @ 20 Hz ~ 20 kHz
	The supported resolution	VGA(640x480); SVGA(800x600); XGA(1024x768); SXGA(1280x1204);UXGA(1600x1200); WUVGA(1900x1200)480I;480P;720P;1080I;1080P; 576I;576P;720P;1080I50;1080P50;WXGA(1400x900); WSXGA(1680x1050);WUXGA(1920x1200);		button	Front panel, LCD status display
HDBaseT video	Interface	RJ-45 female connector; 1 x HDBaseT input, 1 x HDBaseT output	Specifications	Serial control interface	RS-232,DB9 female connector
	Supported protocols	Support HDCP standard		Baud rate and Protocol	Baud Rate : 115200, Data Bit : 8, Stop Bit : 1, No Parity Bit
	Max Pixel clock	225MHz		Structure of Serial Control interface	2 = TX, 3 = RX, 5 = GND
	Impedance	100Ω		Ethernet control interface	RJ-45 female connector
	The recommended maximum input distance	Less than 100m (with a cat5 or cat6 standard line wire)		Ethernet control protocol	TCP/IP IP:192.168.1.190 Port:6666
	The supported resolution	640x480@60, 800x600@60, 1024x768@60, 1280x720@60, 1280x800@60, 1280x960@60, 1280x1024@60, 1360x768@60, 1366x768@60, 1400x1050@60, 1440x900@60, 1600x1200@60, 1680x1050@60, 1920x1080@50, 1920x1080@60, 1920x1200@60		Ethernet control rate	Adaptive 10 M / 100 M, full duplex or half duplex
		HDBaseT remote control	HDBaseT remote control via RS-232		
		Power supply	100VAC~240VAC,50/60HZ		
		Power consumption	60W		
		Temperature	Storage, use temperature: -20°C~ +70°C		
		Humidity	Storage, use humidity:0 ~90%		
		Case Dimension	483(L)x230(W)x44mm(H)		
		The weight of the product	About 2.3kg		
		Mean time between failures	30000 Special Ops		
		The warranty	1 year free warranty, life-long maintenance		

System connection diagram

