CR-iMAX901HD-B
Presentation scaler switcher

CR-iMAX901HD-B

Product overview

CR-iMAX901HD-B is a scaler which has 9 video input interfaces, including CV, YPbPr, VGA , DisplayPort, HDMI, H-CAT, can switch or scale to HDMI/H-CAT 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.

Features

- 9 video inputs: 1 x CVBS,1 x YPbPr, 2 x VGA,3 x HDMI,1 x DisplayPort,1 x H-CAT.
- 2 video output:1 x HDMI, 1 x H-CAT.
- 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

The parameter name		CR-iMAX901HD-B
Composite Video(CV)/ Component Video(YPbPr)	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),1x(CVBS), 1xYPbPr/YCbCr）
	Minimum / maximum level	Analog signal：－2V/+2V
	Impedance	75 Ω
	Echo loss	<-30dB@5MHz

Specifications

The parameter name		CR-iMAX901HD-B
Simulation of VGA video	Gain	0dB
	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
	DC compensation	<-40dB@5MHz
	Echo loss	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
	Interface	HDMI-A connector（Type A connector), 3 x HDMI input,1 x HDMI output
	Minimum /maximum level	T.M.D.S. 2.9V/3.3V
	Impedance	100 Ω
	Input EDID	Use system default EDID,(Support Terminal EDID mapping to input terminal)
	Maximum DC offset error	15mV
	The recommended maximum input distance	Less than 7m, at 1920x1080p@60 (Recommended to use special HDMI wire with authentication, like Molex TM)
	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
DisplayPort video	Interface	20-pin DP connector, Standard, 1 x DisplayPort input
	Supported protocols	DisplayPort 1.1
	Highest transmission delay	500us
	Transmission Bandwidth	Up to 10.8Gb/S
	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);
H-CAT video	Interface	RJ-45 female connector;1 x H-CAT input,1 x H-CAT output
	Supported protocols	Support HDCP standard
	Max Pixel clock	225MHz
	Impedance	100Ω
	The recommended maximum input distance	Less than 100m (with a cat5 or cat6 standard line wire)
	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
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
	Gain	0 dB
	Frequency response	20 Hz ~ 20 kHz,
	HD + Noise	0.05% @ 1 kHz (Rated Voltage)
	Signal to Noise Ratio	(S/N)>80dB
	Stereo channel crosstalk	>80dB @ 1 kHz
	Common-Mode Reje-ction Ratio	>75dB @: 20 Hz ~ 20 kHz
	Signal type	Stereo (Imbalanced connection Audio)
	Impedance	Output: 50 Ω (Imbalanced connection) Input: 10 kΩ(Imbalanced connection)
	Max input level	+19.5dBu,
	Gain error	±0.1dB @ 20 Hz ~ 20 kHz

Specifications

The parameter name		CR-iMAX901HD-B
Control types	Button	Front panel, LCD status display
	Serial control interface	RS-232,DB9 female connector
	Baud rate and protocol	Baud rate：115200, Data bit：8, Stop Bit：1, No Parity bit
	Structure of serial control interface	2 = TX, 3 = RX, 5 = GND
	Ethernet control interface	RJ-45 female connector
	Ethernet control protocol	TCP/IP IP:192.168.1.190 Port:6666
	Ethernet control rate	Adaptive 10 M / 100 M, full duplex or half duplex
	H-CAT remote control	H-CAT remote control via RS-232
Specifications	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)
	Weight of the product	About 2.3kg
	Mean time between failures	30000 hours
	The warranty	1 year free warranty, life-long maintenance

System connection diagram

CR-IMAX901HD-B

Notebook computer

Switch

Desktop computer

CR-uCAT5 HDMI 200R

LCD TV

CR-uCAT5 HDMI 200T

Monitor

HD camera

Notebook computer

Component player

Blu-rey player

DVD

Desktop computer

H-CAT	CV(VIDEO)	ETHERMET	VGA
HDMI	RS-232	YUV(YPbPr)	DP