

HMV160 HD Multiviewer



Overview

The HMV160 High-Definition Multi-Viewer Display Processor is a broadcast full hardware image processor, which supports auto-sensing of HD/SD/CVBS input, and it can be applied to program playout, studio, cable television front, command centre, video conference, multimedia and multi-function hall, etc.

HMV160 features flexible configuration to achieve 4 to 64 images processing. It supports CVBS, SD-SDI, HD-SDI and 3G-SDI video input and DVI, HDMI video signal output together with monitoring of embedded audio SDI signal and analog signal, and display of multiple audio-level meters. HMV160 supports TALLY and TSL of GPIO and UMD and TALLY of IMAGE VIDEO protocol. The monitoring of video loss, freeze, black field, EDH, embedded audio loss, mute, temperature alarm, voice alarm, alarm signal recording and fault log etc. provides a powerful guarantee for the broadcasting safety.

Features

- Auto-sensing of 3G/HD/SD-SDI, CVBS input
- Signal path based on operation system for 24/7 mission critical application
- Full hardware design, excellent signal processing ability
- Up to 1920*1080 output resolution
- Supports 1080P50 output format for 50Hz input
- Supports the third party broadcast control software protocol, display PGM/PST program info
- Powerful signal monitoring function and up to 64 images display
- External analog audio input, stereo monitoring for embedded audio and external audio
- Up to 8 audio meters display per window

- Supports 16:9 / 4:3 aspect, adjustable aspect ratio for each channel
- Supports control via Ethernet or remote control panel
- Embedded TC code display
- Supports analog clock and digital clock
- Clockwise timer and anticlockwise timer
- Flexible setting for time code and GPIO port
- Video and audio alarming and flexible alarm setup
- Hot swappable module design
- Dual power supply for 1RU and 3RU chassis
- The excellent cooling system reduces the temperature of the frame effectively



Specifications

Product Model and Input/output Interfaces	
HMV160-I4A8G8	4Ch auto-sensing input of 3G/HD/SD-SDI or CVBS (BNC) 8 stereo audio inputs (DB26); 8 GPI/O (DB26)
HMV160-I4AOG16	4Ch auto-sensing inputs of 3G/HD/SD-SDI or CVBS (BNC) 1Ch stereo audio output (DB26); 16 GPI/O (DB26) 1Ch LTC input (DB26)
HMV160-ID4	4Ch HDMI/DVI input (HDMI) Supports XGA, WXGA, UXGA, Full HD (60Hz) etc
HMV160-I4O2E	4Ch auto-sensing inputs of 3G/HD/SD-SDI or CVBS (BNC) 2Ch HDMI output 1Ch 10M/100M auto-sensing Ethernet port
Analog Composite Input	
Standard	PAL, NTSC
Return Loss	35 dB to 5.75 MHz
Connector	BNC HD-SDI
HD-SDI Digital Video Input	
Standard	SDI1080i50, SDI1080i60, SDI1080sf24, SDI1080p24 SDI1080p25, SDI1080p30, SDI1080p50, SDI1080p60 SDI720p24, SDI720p25, SDI720p30 SDI720p50, SDI720p60, SDI1035i60
Cable Length	100 m (Belden 8281)
Return Loss	> 15 dB (5 MHz to 750 MHz) > 10 dB (750 MHz to 1.5GHz)
Connector	BNC

*Specifications are subject to change without notice.

SD-SDI Digital Video Input	
Standard	SDI525i, SDI625i
Cable Length	100 m (Belden 8281)
Return Loss	> 15 dB to 270 MHz
Connector	BNC
Analog Audio Input	
Standard	8ch balanced stereo analog audio or 16ch balanced monophonic analog audio
Impedance	20KΩ balanced, 10KΩ single ended
Response Time of PPM (Peak Programme Meter)	
Rise Time	10ms
Fall Time	-20dB/s
Response Time of VU Meter	300ms
Scales	0 to -72dB
Maximum Level	+24dBu
Connector	DB26 (male)
Frame	
HMV160-FR1	1RU Chassis, 4 slots
HMV160-FR3	3RU Chassis, 16 slots
Power	Redundant power supply
Input Voltage	100-240 V, 480W Max
Frequency	50/60 Hz
Working temperature	0-40°C
Dimension	3RU frame 482×468.5×133 (mm) / 19.0×18.4×5.2 (inch)

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