

M60-12U

Multi-service Video Management Platform



Features:

- 19" standard 12U ATCA industry box
- Easy and flexible configuration with pluggable card module design
- Function card supports hot-swap
- DC/AC Power supply
- 160ch@1080P or 320ch@D1 signal encoding (full configured)
- 240ch@4K or 960ch@1080P or 3840ch@D1 signal decoding (full configured)
- Support analog/digital video signals input and matrix output
- Support SD/HD video signal matrix switch and output
- Support non-compressed digital signal encoding output
- Support switch via network keyboard, client-end and etc.
- 8 RJ-45 ports and 8 optical ports (can't be used simultaneously) for matrix control, preview and online central storage.
- Support TCP/IP/RTP/RTSP/RTCP/TCP/UDP/DHCP/PPPoE and etc. network protocols
- Support network extended alarm signal input and output
- Remote cast analog/digital video onto the video-wall
- Remote reboot/upgrade/default setting and etc operations

Technical Specification

Model

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System Parameter

Main Processor	64-bit Quad-core Embedded Microprocessor
Operating System	Embedded LINUX
Bus	PCI-E
Slot	11(1 Main Control Board Slot, 10 Video and Audio Function Board)

System Configuration

Mainframe	Redundant power, Main Control board, PCI-E Bus rear Panel, Smart Temperature Controlled Fan
Video Input Card	Max. 10
Video Output Card	Max. 10
Alarm Card	Optional
Intelligent Analysis Card	Optional
Cascaded Fiber Link Card	Optional

Network Access Capacity

Network Access	8 RJ-45 ports(10/100/1000M) Optical ports Optional
	8Gbps Network Interface Bandwidth
	5000 Cameras Access
	Max.320 1080P@8M Forward capability



Matrix Exchange and Splicing Control Capacity

Decoding card Video-Wall Splicing	Splicing	Max 180 splicing screens
	Video Wall	Support Splicing Zoom/Merge/ Roam/Overlay
	Input Source	HD/SD, Digital/Analog (support mix input)
	Output Source	HDMI/DVI/VGA/BNC
	Control Mode	PC client-end/Local Operate Menu/Network Keyboard/IPAD

Video Encoding Input

VEC0804HD-M60 (DVI/VGA/HDMI)	Video Input	DVI-I, standard configuration support VGA, DVI, HDMI via adapter
	Encoding Format	H.264/MPEG4
	Encoding Capacity	8CH@1080P
	Audio Input	8, DB26 interface(2.0Vp-p, impedance:1KΩ)
	Low-speed data interface	2 RS485, Support current speed dome protocol

VEC1604HC-M60 (HDCVI)	Video Input	BNC (1.0VP-P,impedance:75Ω)	VDC0905H-M60 (HDMI)	Decoding Capacity	12CH@12MP(15fps)/12CH@4K/ 48CH@1080p/96CH@720p/ 192CH@D1
	Signal System	HDCVI		Video Output	9CH HDMI
	Encoding Format	H.264/MPEG4		Audio Output	9CH, HDMI embedded audio and 1 DB15(VGA) (2.0Vp-p,1KΩ), G.711a
	Encoding Capacity	16CH@1080P		Division	1/4/6/8/9/16/25/36,custom
	Audio Input	16, Support HDCVI standard, Video and Audio transmission in coaxial cable		Low-speed data interface	2 RS285, 4/2 Alarm in/out
	Low-speed data interface	2 RS485, Support current speed dome protocol, Support Video and Audio transmission in coaxial cable		Decoding Capacity	16CH@12MP(15fps)/16CH@4K/ 64CH@1080p/128CH@720p/ 256CH@D1
VEC1604HS-M60 (HD-SDI)	Video Input	BNC(1.0VP-P,impedance:75Ω)	VDC1205H-M60 (HDMI)	Video Output	12CH HDMI
	Encoding Format	H.264/MPEG4		Audio Output	12CH, HDMI embedded audio and 2 DB15(VGA) (2.0Vp-p,1KΩ), G.711a
	Encoding Capacity	16CH@1080P		Division	1/4/6/8/9/16/25/36,custom
	Audio Input	16, DB26 interface(2.0Vp-p, impedance:1KΩ)		Low-speed data interface	2 RS285, 4/2 Alarm in/out
	Low-speed data interface	2 RS485, Support current speed dome protocol		Decoding Capacity	20CH@12MP(15fps)/20CH@4K/ 80CH@1080p/160CH@720p/ 320CH@D1
VEC3204FB-M60 (CVBS)	Interface	BNC (1.0VP-P,impedance:75Ω)	VDC1505H-M60 (HDMI)	Video Output	15CH HDMI
	Signal System	PAL/NTSC self-adaption		Audio Output	15CH, HDMI embedded audio and 2 DB15(VGA) (2.0Vp-p,1KΩ), G.711a
	Encode Format	H.264/MPEG4		Division	1/4/6/8/9/16/25/36,custom
	Encoding Capacity	32CH@D1		Low-speed data interface	2 RS285, 4/2 Alarm in/out
	Audio Input	32, DB26 interface(2.0Vp-p, impedance:1KΩ)		Decoding Capacity	24CH@12MP(15fps)/24CH@4K/ 96CH@1080p/192CH@720p/ 384CH@D1
	Low-speed data interface	2 RS485, Support current speed dome protocol		Video Output	18CH HDMI
VEC1604HF-M60 (Fiber Video)	Optical Module	SFP	VDC1805H-M60 (HDMI)	Audio Output	18CH, HDMI embedded audio and 2 DB15(VGA) (2.0Vp-p,1KΩ), G.711a
	Fiber Interface	LC		Division	1/4/6/8/9/16/25/36,custom
	Encoding Format	H.264/MPEG4		Low-speed data interface	2 RS285, 4/2 Alarm in/out
	Encoding Capacity	16CH@1080P		Decoding Capacity	32CH@1080P/128CH@D1
	Audio Input	16, DB26 interface(2.0Vp-p, impedance:1KΩ)	Video Output	24CH BNC	
	Low-speed data interface	2 RS485, Support current speed dome protocol	Audio Output	12CH line out, DB15, for the corresponding 1-12CH video output	
			VDC2404B-M60 (CVBS)	Division	1/4/6/8/9/16/25/32,custom
				Low-speed data interface	2 RS485, Support current speed dome protocol

Video Decoding Output

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System Cascade

VFC0804JF-M60	Optical Module	8, SFP external
	Interface	LC, (8 in single board)
	Cascade Capacity	16CH@1080P(30fps) or 64CH@D1, Support Ethernet and direct transmission via RS485

Main Control Interface

Output Interface	1, VGA and DVI
Communication Interface	8, RJ45(1000M) or 8, SFP(Alternative)
Serial Interface	1, RS-232, For the parameter configuration, device maintain, transparent channel
USB	4, USB2.0, 2 in each side of front and after
Expansion Interface	1, Esata

Others

Power	48V, 47-63Hz, DC or 100~120V and 200~240V, AC
Power Consumption	≤800W
Operating Temperature	0C~ +50C (32 °F to 122 °F)
Operating humidity	10~90%RH / 86~106kpa
Dimension(mm)	12U, 482.6 × 496 ×532.6mm(19 × 19.53 × 20.97 inch),(W*D*H)
weight	≤40Kg (88.18 lb) (full configured)

Ordering Information

Type	Part Number	Description
Video Management Platform	M60-12U	4K, H.265 & Ultra powerful decoding capacity

Dimensions (mm/inch)

