

## DH-M60

### Video Platform



### Features

#### Hardware:

- 19" standard 12U
- Easy and flexible configuration with pluggable card module design
- Function card supports hot-swap
- DC/AC Power supply

#### Video Encoding/Decoding:

- 320ch@D1 or 80ch HD signal encoding(full configured)
- 1280ch@D1 or 160ch HD signal decoding(full configured)

#### Matrix Switch:

- 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.

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### **Intelligent Analysis:**

- Support multi-channel video intelligent analysis
- Support Trip-wire Detection, Region Intrusion Detection, Perimeter Protection, Abandoned Object Detection, Missing Object Detection, Illegal Parking, Fast moving and etc. IVS functions
- Support video quality testing and scheduled system status table generating
- Support alarm info (of video intelligent analysis)video-wall display

### **Network Function:**

- 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
- Support functions as filter, whitelist and etc.

# DH-M60

## Specifications

Model		DH-M60
<b>System</b>		
Main Processor	Matrix Platform Quad-core embedded microprocessor	
Operating System	Embedded LINUX	
Bus	PCI-E	
Slot	11	
Mainframe	2 Power Supply, 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	
<b>Video Input</b>		
DH-VEC3204FB-M60 (Analog)	Interface	BNC (1.0VP-P, 75Ω)
	Format	PAL/NTSC self-adaptive
	Compression	H.264
	Encoding	Single Function Card: 32ch@D1
	Audio	Single Function Card: 32ch, DB26(2.0Vp-p,1KΩ), G.711a
DH-VEC0804HS-M60 (HD-SDI)	Interface	BNC (1.0VP-P, 75Ω)
	Compression	H.264
	Encoding	Single Function Card: 8ch@1080p/UXGA/720p/D1
DH-VEC0804HF-M60 (Fiber Video)	Interface	LC
	Compression	H.264
	Encoding	Single Function Card: 8ch@1080p/UXGA/720p/D1
Network Video	Compression	H.264/MPEG4
	Transmission Protocol	TCP/UDP/RTP/RTSP/RTCP
	Input Device	IPC, DVR, NVS, NVR
	Resolution	1080p/UXGA/720p/D1/HD1/2CIF/CIF/QCIF
<b>Video Output</b>		
DH-VDC1204B-M60 (BNC)	Decoding	Single Function Card: 16ch@1080p/32ch@720p/128ch@D1
	Output	12 BNC
	Audio	12ch, DB15 Line out
	Split	1/4/9/16
DH-VDC0804V-M60 (VGA)	Decoding	Single Function Card: 16ch@1080p/32ch@720p/128ch@D1
	Output	8 VGA
	Audio	8ch, DB15 Line out
	Split	1/4/9/16
DH-VDC0804D-M60 (DVI)	Decoding	Single Function Card: 16ch@1080p/32ch@720p/128ch@D1

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	Output	8 DVI
	Audio	8ch, DB15 Line out
	Split	1/4/9/16
DH-VDC0804H-M60 (HDMI)	Decoding	Single Function Card: 16ch@1080p/32ch@720p/128ch@D1
	Output	8 HDMI
	Audio	8ch, DB15 Line out
	Split	1/4/9/16
<b>Intelligent Analysis</b>		
DH-VFC1604I-M60	Intelligent Analysis Channel	16ch
	Resolution	1080p/UXGA/720p/D1/HD1/CIF/QCIF
<b>System Cascading</b>		
DH-VFC0804JF-M60	Fiber Module	SFP
	Interface	LC
	Cascading Capacity	16ch HD/64ch SD, Support transparent transmission via RJ45 & RS485
<b>Matrix Switch</b>		
Video Input	Analog Camera, Digital Camera, IPC, DVR, NVS, NVR and etc.	
IP HD Matrix Switch	80ch@1080p, 160ch@720p, 320p@D1	
Non-compressed HD Video Switch	Max 64/32ch in/out	
Non-compressed SD Video Switch	256ch input/output	
<b>Video-Wall</b>		
Decoding Card Video-Wall Splicing	Splicing	Support video-wall(4×4 & below) splicing
	Video-Wall	Support Splicing Zoom in/out
	Input Source	HD/SD, Digital/Analog (support mix input)
	Output Port	HDMI/DVI/VGA/BNC
	Control Mode	PC client-end / Network Keyboard
<b>Network</b>		
Interface	8 RJ-45 ports (10/100/1000M) 8 optical ports (The above two sorted ports can't be used simultaneously) 1 for management, 2 for access, 1 for storage	
Network Functions	HTTP, TCP/IP, IPv4/IPv6, UPNP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPOE, DDNS, FTP, Alarm Server	
Remote Operation	Monitor, PTZ control, Playback, System setting, File download, Log information	
<b>Auxiliary Interface</b>		
USB Interface	4 ports	

## DH-M60

RS232	Dahua keyboard, PC communication
RS485	PTZ control
<b>Environmental</b>	
Power Supply	DC48V, 47-63Hz AC 100~120V / 200~240V
Power Consumption	800W
Working Environment	0°C ~+50°C / 10~90%RH / 86~106kpa
Dimension	12U, 482.6mm×496mm×532.6mm(W×D×H)
Weight	≤40Kg

## Accessories

Module	Name	Model	Note
Mainframe (default)	Mainframe	DH-M60-12U	19" 12U, main control board & 2 power modules
Audio/Video Input (Optional)	SD Audio/Video input Card (BNC)	DH-VEC3204FB-M60	32ch video input (BNC)
	HD Audio/Video input Card (VGA)	DH-VEC0804HV-M60	8ch video input (VGA)
	HD Audio/Video input Card (HD-SDI)	DH-VEC0804HS-M60	8ch video input (HD-SDI)
	HD Fiber Encoding Card	DH-VEC0804HF-M60	8ch SFP optical ports
Audio/Video Output (Optional)	Audio/video input card (BNC)	DH-VDC1204B-M60	12ch video output (BNC)
	Audio/video Output Card (VGA)	DH-VDC1604V-M60	8ch video output (VGA)
	Audio/video Output Card (DVI)	DH-VDC0804D-M60	8ch video output (DVI)
	Audio/video Output Card (HDMI)	DH-VDC0804H-M60	8ch video output (HDMI)
System Cascading (Optional)	Fiber Cascading Card	DH-VFC0804JF-M60	8ch SFP optical ports (for cascading between video platforms)
Intelligent	Intelligent	DH-VFC1604I-M60	Support 16ch intelligent analysis

## DH-M60

Analysis (Optional)	Analysis Card		
Others (Optional)	Alarm Board	DH-IFC6408BJ-M60	64/8ch in/out, RS485(connect to alarms)

### Note:

#### 1. M60 Rear Panel Switch Capacity

Bus: Gen2×8; 10 card slots

Data receiving/sending capacity:  $5\text{Gbps} \times 8 \times 2 = 80\text{Gbps}$

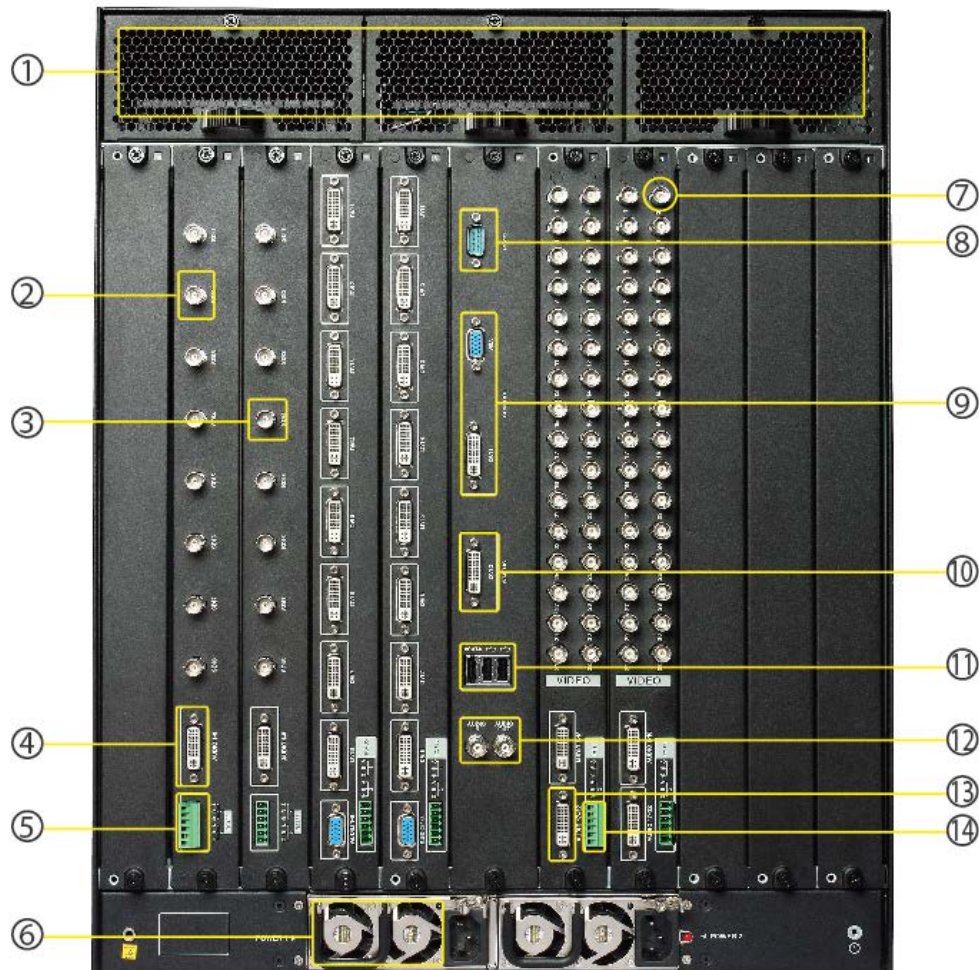
The data switching capacity of the rear panel (M60) is 800Gbps ( $80\text{Gbps} \times 10$ )

#### 2. Network Video Input Capacity

- 8 RJ45 ports / 8 SFP ports for video input (can't be used simultaneously)
- Bandwidth: 8Gbps
- 80ch@1080p storage & transmission

# DH-M60

## Rear Panel:



1. Fan	2. Video Input(HD-SDI)	3. Video Output(DVI)
4. Audio Input	5. RS485	6. Power Supply
7. Video Input(BNC)	8. RS232	9. Interface (Control info display)
10. Interface (Status Info Display)	11. USB	12. Bidirectional Talk
13. Audio Input	14. RS485	

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×Design and specifications are subject to change without notice.

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