



4K10HD-MB70 IP Matrix HDMI & IP Cam input
2/4/16/48ch HDMI



MB70-4K

Innovation

As IP products become more main stream, several partners are looking for a video wall controller/matrix combination allowing for an easy way to display and operate IP cameras and IP PTZs. Simplicity of operation is the key and the ability to call a camera into a selected pane or window on video screen was the goal in developing this IP matrix switcher. The command structure is simple: (1)(CAM)+(1)(MON) on the IP keyboard/PTZ controller allows the users to switch camera 1 to Monitor 1, while the joystick allows for precise operation of the PTZ. This was the idea behind the development of the 70V2 ip matrix: the IP PTZ is operated much like a typical Analog PTZ system with each PTZ being assigned an IP address on the network switch and the communication path/language is over ip protocol.



12RU chassis with 48ch HDMI output



5.4RU chassis with 48ch HDMI output



Standalone 2 HDMI output

Product Feature

- Support for network media, ONVIF, RTSP data input
- Support computer keyboard & Mouse direct input, U Flash storage.
- Support BNC (TVI, VI, AHD or CVBS) / HDMI/HD SDI input, the HDMI input support 4K.
- Modular design, 4RU chassis for 8 cards, besides it, there is 12RU chassis for 24 cards, 5.4RU chassis with 16 cards, 4ch /2ch HDMI output standalone available.
- Each matrix card supports 2ch HDMI output, every odd output support 4K resolution.
- Each Video Output can identify optimum resolution automatically, or allow the user to change the output resolution manually. Maximum supported resolution per card 3840x2160@60Hz.
- Support 4K @60Hz, 1080P, 1080I, 720P, D1 video formats
- Support standard H.265+ & H.264+.
- Single module support 4ch at 4K or 16ch at 1080P or 32ch at 720P or 64 CH D1
- Decoding and display 4ch at 4K to 64 CH D1.
- Support video-splitting output, up to 8x8 windows split on one monitor
- Support monitor splicing by any size ,splitting, windowing, zooming in & out
- Support audio input and output, also monitoring, broadcasting and intercom functions are supported
- Support OSD, title, time and warning messages can overlap on the displayed video
- Compatible with branded IPC without use of streaming media server
- Compatible with Onvif 2.4, and RTSP protocols
- Matrix Client software could configure all parameter, perfect video wall management functions.
- Video preview & PTZ control on matrix software

Specification

Particular	Details
Interface Parameter	
HDMI input	Optional, 1/4CH HDMI input per card, support 4K video input
HD SDI input	Optional, 1CH HD SDI input per card, support 1080p
BNC input	Optional, 8CH BNC input per card, support analog, TVI,CVI,AHD
HDMI output	2CH per card
Ethernet	100M/1000M adaptive RJ45 port
Audio input	1ch ,Φ3.5 earphone socket .
Audio output	1ch, Φ3.5 earphone socket .
alarm output	support (rack construction)
USB2.0	support
RS232	support
Video Parameter	
network video decoding	H.265 +, H.264+
network video input	4K,1080P,1080I,720P,D1
HDMI output resolution	1024×768P@60Hz,1280×720P@60Hz,
	1366×768P@60Hz,1920×1080P@60Hz,
	3840×2160@60Hz
video decode and display	One module support 4CH 4K or 16ch 1080P@30hz or 32ch 720P or 64ch D1
monitor splicing	48 monitor splicing (rack construction)

Particular	Details
monitor splitting and display	Support 4/9/16/25/32/48/64 splitting and display
OSD	Supports Chinese/English OSD character superposition;
	Time display, Monitor No. display.
	Support titles overlaying, Maximum 16 titles overlay in one screen, maximum 40 characters per title;
	Alarm information display.
Audio Codec	G.711, G.726, ADPCM Audio encode/decode.
On/Mute	Supports all channels and single channel quick setting individually.
Audio input	One module-1CH audio encode, it can be set to open/close audio input.
Management and Maintenance	
Basic function	User login/logout, online at same time, operation permission definition; Supports video switching and controlling. Support Segmentation display mode management. Automatic inspection, setting and call. Supports rollback playing.
System management and configuration	PETNET protocol available, support web configure, configuration upload and reload, operation permission setting and management
Maintenance	System log available & Fault detection and report. Support online updating.
Other	
time synchronization	Interior RTC, it could time automatic synchronization, offer standard port, to keep sync. To time server inside the system.
alarm input	support network alarm input
alarm output	one module can provide with 1CH alarm switching value output and network alarm output
Alarm Processing	Multiple alarm event processing mode
Screen control	video screen control port available;
best resolution identification	support best resolution identification
power supply	one module Power supply: DC 12V. Chassis power supply: AC 220
Power consumption	one module 15W
working temperature	0~55°C
working humidity	10%~90%
structure	standard structure design
Weight	≤12kg

Rear Panel

①	Power port & switch
②	Cascading port
③	Alarm output port (Reserved)
④	USB2.0 port
⑤	RS232/RS422 port (Reserved), NET-LAN port
⑥	Audio in/out port (Reserved)
⑦	HDMI output port

