

DH-VCS-MCU95F0-4K

Full-HD Video Conferencing Management Platform



- High performance and abundant functions enhance the video conference experience.
- Supports H.265 video compression.
- Excellent network adaptability ensures operation stability and reliability.
- Intelligent access for a variety of endpoints, achieving seamless connection with DH-VCS-TS Series/PC client/mobile phone, etc.
- Conforms to industry standards and compatible with other mainstream conferencing products.
- Supports up to 2 business boards and up to 80 sites 30fps@1080P, supports hot swap.
- Performance expanding capability through device cascade.

Product Overview

Dahua MCU95F0-4K adopts telecommunication-level standard ATCA architecture which supports H.265 video compression. The MCU95F0-4K is a high-density, highly reliable and high-performance MCU product suitable for mid to large-scale conference system networking. It offers intelligent access for a variety of endpoints providing users with the ultimate video conferencing experience.

Technical Specification

Video

Video Codec	H.265, H.264 HP, H.264 BP, H.263, H.263+
Video Resolution	Main stream: 4K, 1080P, 720P, 4CIF, CIF Demo stream: 1080P, 720P, 4CIF, CIF
Frame Rate	Main stream, 25fps, 30fps, 50fps, does not support 4K, 60fps (does not support 4K) Demo stream, 5 fps, 15 fps, 25 fps, 30 fps, 50 fps, 60fps
Max. Capacity	Fully adaptive 12 sites 30fps@4K/Fully adaptive 40 sites 60fps@1080P/Fully adaptive 80 sites 30fps@1080P

Audio

Audio Codec	OPUS, G711a, G711u, G722, MP3, G722_1c, AAC_LC, G719, G722.1, G728, G729
Audio Sample Rate	8KHz ~ 48KHz

Performance

Multi-screen	H.264 1080P30fps: 28 H.265 1080P30fps: 15 (tour) ; 28 (no tour) H.265 4K30fps: 4 (no tuor)
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Communication Protocols

Communication Protocols	ITU-T H.323, IETF SIP
Transmission Protocols	IPv6/IPv4, TCP/IP, FTP/FTPS, RTP, RTCP, HTTP/HTTPS, SNMP, SSH, DNS, DDNS, SRTP, TLS, NTP
Other Protocols	H.221, H.225, H.235, H.239, BFCP, H241, H.245, H.281, H.460

Network

Network Packet Loss Tolerance	In the event of a 30% packet loss, the conference audio and video is unaffected
Network Delay Tolerance	Normal conference processing for up to 800ms delay

Security

Physical environment	Adopts reliable designs (environment/safety/EMC/thermal) to ensures the system runs stably for a long time
Network transmission	HTTPS protocol transmission and perfect authentication ensure access to internet safety; Support H.235/TLS/SRTP encryptions, etc .
Firewall	Supports network firewall ensures access to internet safety

Maintenance mode

SSH	Supports SSH for remote maintenance
WEB	Support system maintenance and remote upgrade through WEB
Maintenance	Support system resource statistics and hardware status diagnosis
Mangement	Support common conference management functions

Card

Number	Single Board: Fully adaptive 48 sites 30fps@1080P Number: Support 2 business board hot swap
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Interfaces

Display Interfaces	4 × HDMI
USB Interfaces	2 × USB3.0
Debug Interfaces	1 × USB serial port
Management Interfaces	1 × RJ45 10/100/1000Mbps management network port
Network Interfaces	4 × RJ45 10/100/1000Mbps self-adaptive network port, 2 × 1000Mbps SFP multimode optical port (optional)

Physical Features

Power	1 + 1 800W Redundant power, Hot-swap
Hard Disk	2 × SSD 256G
Power Consumption	Rack & fan: Max. 200W Business board: Max. 300W
Dimensions (W × D × H)	3U rack: 482.6mm × 385.5mm × 132.3mm Business board: 322.25mm × 280mm × 30.48mm (L x W x H)
Package Size	590mm × 560mm × 360mm Business board: 476mm × 400mm × 126mm (L × W × H)
Power Supply	AC 220V, 50Hz
Working Temperature	Operating Conditions: 0°C ~ +45°C (0°F~+113°F) Storage Conditions:-20°C ~ +80°C (-4°F~+176°F)
Working humidity	5% ~ 95%RH, non-condensing
Weight	Case: Net Weight: 18kg (40lb); Gorss Weight: 28kg (62lb) Business Board: Net Weight: 2.7kg (6.0lb) ; Gorss Weight: 2.81kg (6.2lb)