

# DH-VCS-MCU91F0

## Full-HD Video Conferencing Management Platform



- Max. 20/40/80 channels 30fps @ 1080P simultaneous streaming, adapts to different networking requirements
- Excellent network adaptability and multiple backup mechanisms ensure operation stability and reliability
- Conforms to industry standards and perfectly interoperable with other conferencing products
- Compatible with standard security equipment and Dahua video surveillance platforms, achieving seamless connection with traditional security systems
- Built-in easy to use GK/WEB graphic operation interface
- Standard rack installation for convenient and flexible deployment
- Simple scaling. Supports cascading capacity



### System Overview

The Dahua MCU91F0 series multi-point control unit is a next generation full-HD video conferencing management platform. The MCU91F0 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.

### Functions

#### Powerful performance for an ultimate experience

The powerful MCU91F0 supports max. 20/40/80 sites 30fps @ 1080P simultaneous streaming which is the ideal choice for mid to large-scale conference system networking. Users can also create meetings according their requirements. The MCU uses industry-leading OPUS audio coding technology, delivering users excellent audio-visual experiences.

#### Strong network adaptability provides seamless experience for low-bandwidth connections

Thanks to our unique anti-packet loss technology, MCU91F0 ensures normal operation of audio and video in the event of a 30% packet loss or 800ms delay. By supporting a new generation of H.265 encoding technology, the device adapts to different networking requirements and provides a 1080P full-HD image over low bandwidth connections.

#### Open standards, compatible interoperability

Conforming to ITU-T H.323 and IETF SIP communication standards, the MCU91F0 supports industry standard A/V encoding technologies and achieves seamless interconnection with products that meet international standards. Meanwhile, it achieves integration with security products which conforms to industry standard.

#### Secure and reliable carrier-class architecture

Benefiting from carrier-class standard ATCA architecture and multiple secure encryption methods, the MCU91F0 can ensure meeting data security and stability. It also supports hot swapping and multiple backup mechanisms, such as network ports, power supplies, etc.

#### Easy to use, simple scaling

User-friendly GK/WEB graphic operation interface making essential management work easier and more effective. Cascading capacity expansion offers smooth scalability.

## Technical Specifications

### Video Features

Video Codec	H.265, H.264 SVC, H.264HP and H.264BP
Video Resolution	Main stream: 1080P, 720P, 4CIF and CIF
	Demo stream: 1080P, UXGA, WXGA, SXGA, XGA, SVGA and VGA
Frame Rate	25fps, 30fps, 50fps and 60fps
Video Bitrate	5~60fps
Dual Stream	Dual 1080p

### Audio Features

Audio Codec	OPUS, MP3, AAC-LC, G.719, G.711a and G.711u
Audio Processing	AEC (Acoustic Echo Cancellation), AGC (Automatic Gain Control), ANS (Automatic Noise Suppression), Self-Adaptive Post-filtering, Audio Error Correction and Lip Sync

### Conference Features

Max. Capacity	Fully adaptive 20/40/80 sites 30fps @ 1080P
Conference Control	Several meeting control functions, such as creating meeting, booking meeting and multi-screen

### Communication & Security

Communication Protocols	ITU-T H.323, IETF SIP
Transmission Protocols	IPv4, TCP/IP, RTP, SRTP, RTCP, HTTP, DNS, NTP and DHCP
Other Protocols	H.225, H.235, H.245 and H.460

### Network Feature

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

### Maintenance Mode

Mode	Supports remote SSH and Web maintenance
Management	Real time health status monitoring including processor usage, hardware status, etc.

### Interfaces

USB Interfaces	2 x USB 2.0 host,
Network Interfaces	4 x RJ45 10/100/1000M self-adaptive network port
Debugging Port	1 x VGA

### Certifications

Certifications	CE (EN 55032:2015, EN 61000-3-2:2014, EN 61000-3-3, EN 55024:2010+A1, EN 55130-4:2011 + A1) FCC (CFR 47 FCC Part 15 subpartB, 2016)
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### Electrical

Power Supply	AC 100~240 V, 50/60HZ
Power Consumption	<=1000W

### Environmental

Operating Conditions	0°C ~ +55°C (+32°F ~ +131°F) / 5%~95%RH
Storage Conditions	-40°C ~ +55°C (-40°F ~ +131°F) / 5%~95%RH

### Construction

Dimensions	733.0mmx438.0mmx86.9mm (28.86"x17.24"x3.42")
Net Weight	24kg (52.91lb)
Gross Weight	41kg (90.39lb)

### Ordering Information

Type	Part Number	Description
MCU	DH-VCS-MCU91F0	Full-HD Video Conferencing Management Platform

### Rear Panel

