

Overview

Supporting the industry leading H.263+/H.264 video standards, the VP-12000MCU provides clear, high resolution, live video up to 30fps with 4CIF resolution, 60 fields per second. The VP-12000MCU allows for superior multipoint video conferencing capacities with the built-in MCU, establishing a new benchmark for the industry by connecting up to 12 video sites via IP, ISDN, or E1/PRI.

With the VGA/SXGA input and output jack, users are able to present and share any type of information, from a PowerPoint slide, WORD document, web page and so on. Images are sent in dual stream mode at 1280*1024 resolution.

With H.239, the VP-12000MCU is able to deliver two video streams to the far end in the separate channels, each one with the DVD like video quality. By proprietary TripleStream technology, up to 2 video stream plus 1 PC content stream can be sent to and displayed at the far end separately.

The VP-12000MCU also supports H.235, AES and DES encryption. Video meetings have never been secure as today, making the VP-12000MCU fully capable for mission critical and high confidentiality meetings.

The VP-12000MCU supports multiple network connections such as E1/PRI, ISDN/BRI and IP. In addition, the expansion slot at the rear panel gives users the power to add ports to expand the connection capacity.

The VP-12000MCU also supports up to 16 sub-pictures on the display screen, giving the users the feeling of "being there". The layouts are changeable "on the fly", and the video can be set as voice activated.

The VP-12000MCU's Site Call feature makes video meetings as easy as making a telephone call. Selecting the attendees from the address book and clicking the SiteCall button, video meetings are started automatically.

Firewalls and NAT traversal issues have always created problems for video conferencing. By using static NAT and a proprietary SNP protocol, NAT and Firewall are no longer obstacles for creating video calls.

Utilizing technologies such as DiffServ, ToS, jitter correction, packets reordering and packet loss compensation, the video quality is ensured even in fluctuating network status. The automatic down-speeding will be applied in case there is heavy traffic and the available bandwidth is decreased.



Features

- Point to Point and Point to Multipoint Video Conferencing
- Built-in MCU allows connections of up to 12 different sites
- High Quality Video with Video Enhancement Technology
- On-screen Graphical User Interface, Hand-held remote control, and Web browser interface
- Frame rates up to 30 fps
- Dual-view transmission, picture-in-picture

Applications

- Board/meeting room video conferencing
- Multisite video conferencing
- Distance Learning
- Remote monitoring over LAN or WAN
- Realtime project collaboration

Ordering Information

Model	Description
VP-12000MCU	DVD Quality Video Conferencing Station with built in MCU

Specifications

Standards Supported

H.323 V4, H.320

Video

H.261, H.263, H.263+, H.263++, H.264

Audio

G.711, G.722, G.728, G.723.1, HWBA20

Data Sharing

T.120

Communication and Control

TCP/IP, DHCP, ARP, FTP, SNMP, RTP, RTCP, Telnet, HTTP, PPPoE, H.221, Q.921, Q.931 BONDING 1

Other Major ITU Standards supported

H.225, H.231, H.233, H.234, H.235 V2&V3, H.239, H.241, H.242, H.243, H.245, H.281, H.283, H.331

Bandwidth Supported

IP: 64kbps - 8Mbps; ISDN: 64kbps - 512kbps; E1/PRI: 64kbps - 4*2Mbps

Up to 9 Mbps for multipoint conference

Video Input (5 Inputs)

1 * MiniDin, S-Video: main camera
3 * RCA, CVBS: auxiliary camera / document camera / VCR
1 * DVI/SXGA: PC

Video Output (5 Outputs)

Video format 4:3 or 16:9

1 * MiniDin, S-Video: main monitor
3 * RCA, CVBS: dual monitor or VCR
1 * DVI/SXGA: projector or VGA/SXGA display device

Video Format

NTSC, PAL, VGA, SVGA, XGA, SXGA

Video and Still Image Resolution

SQCIF(128*96), QCIF(176*144) CIF(352*288), 2CIF(352*576), 4CIF(704*576)

VGA/SXGA Input and Output Resolution:

640*480,800*600,1024*768,1280*1024

Frame Rate: 15fps @ 64kbps - 192kbps; 30fps @ 256kbps and above

Audio

AEC, ANS, AGC

HWBA20, AAC-LD compatible, 20KHz Audio

VoiceClear / AudioEnhancer

Audio Input (4 Inputs)

2 * XLR-3: microphone, audio mixer
2 * RCA, Line level: auxiliary or VCR

Audio Output (4 Outputs)

2 * RCA, Mono/Stereo L & R: main audio
1 * RCA, Line level: auxiliary or VCR
1 * Built-in speaker

Network Interface

2 * RJ45, 10/100Base-T

4 * RJ45, E1/PRI, G.703, G.704

4 * RJ45, ISDN BRI S-interface, I.431

3 * RS232, for auxiliary camera control, support SONY D30/D31/D70/D100/D100P, Cannon VCC1/VCC4, Panasonic 3CCD, GPT, PTC 100, etc.

H.239 and DualView

2 video streams with H.239

TripleStream: 2 video streams plus 1 PC content

DualView with PIP display

Environment

Storage temperature: -40_ C - 70_ C

Working temperature: 0_ C - 55_ C

Humidity: 10% - 95%

Physical: 360mm(L)*230mm(W)*140mm(H); 3.0 KG

Built-in MCU

Multipoint Capacity

Up to 12 * IP sites @ 768 Kbit/s; Up to 6 * ISDN sites @ 384Kbit/s

Up to 5 * E1 sites @ 2Mbps

Mixed IP, ISDN or E1 conference, Conference rate up to 9 Mbps

Audio mixer

Dial in / dial out

Conference call by MCU IP address

Continuous Presence

Up to 9 sub-pictures

5 layouts, changeable on the fly

Voice activation

Conference Control

Remote controller, web server and open API for integration

Extended receiver for remote controller

Chair control, voice activation

Encryption

H.235 V2&V3, AES, DES

Supported in H.239 and multipoint conference.

Security Features

Administrator password

Conference access password

H.243 MCU conference control password

IP address, terminal ID and password authentication (with GK)

Closed Caption

16 colors

Drifting upward/leftward

Full screen caption

Site name display, color/position/display mode changeable

System Management

Embedded web server, SNMP, Telnet, FTP

Remote software upgrade by call, web server or FTP

On screen user menu with remote controller

Diagnosis

4 local loopback, 3 remote loopback

PING IP / ISDN / E1 line test

Built-in test tone and color bar

Telnet with admin / user password

Local and remote software upgrade

Built-in event log, 10,000 entries

Address book

1,000 contact entries, 100 contact groups

Other Features

Virtual continuous presence

SiteCall

Picture in picture

Call records: dialed calls (16), received calls (16) and missed calls (16)

Conference records (10)

Customized welcome screen, sound, wallpaper, logo, etc.

IP address conflict warning

Diffserv / ToS

Snapshot, JPG format

Sleep mode / Screen saver

Adaptive ventilation / heating control

MTBF 100,000 hours

Languages

Chinese, English

Power

Auto sense power

100-240 VAC, 47-63Hz, 45 watts