KDV8000E
Multipoint Control Unit (MCU)

This HD + SD and fully integrated powerful MCU assures you to enjoy a high quality of IP based videoconferencing communication.

KDV8000E is a high performance and fully integrated Multimedia Conference platform, which combines the latest technologies in video, audio and network transmission. This unique in-the-market MCU supports HD and SD resolution videoconference with fully integrated services such as Gatekeeper, firewall traversal and T.120, no need of any additional device or server in any IP network environment. No matter through Internet, VPN (Virtual Private Network) or leased lines, KDV8000E performs cost-effectively with the most concise architecture to replace the conventional "platform + additional servers" structure. KDV8000E supports efficient H.264 video codec technology and H.239 dual video stream, it also provides powerful media processing capabilities such as N+1, N+2 and N+3 style Continuous Presence and Intelligent Audio Mixing from 32 sites. After all, KDV8000E gives you a full variety of application features for your videoconferencing exercise.

- **Quality Conference Result**
With efficient H.264 video codec and wideband audio processing technologies, KDV8000E can manage HD and SD image resolutions for videoconferencing effect and support H.239 dual video streaming standard, which allows multiple sites to share PC images with resolution of up to 1024 × 768.

- **Flexible Access Capacity**
KDV8000E is configured of access capacity of 8 ~ 64 channels, with convention of 16 group meetings at the same time. Each access node supports a streaming bandwidth up to 4 Mbps with capability to adapt different calling rate automatically. It is very suitable to multiple access networks with different bandwidth conditions such as the Internet, VPN, leased lines and LANs.

- **Excellent Network Adaptability**
With the embedded proxy service with standard of H.460 protocol, KDV8000E supports NAT/firewall traversal and allows deploying endpoints at any place without interference of network security policies. Using Intelligent Packet Loss Recovery (IPLR) and QoS technologies, KDV8000E ensures operation stability under various network environment. Even through a home use ADSL access from a remote site, the video and audio qualities you can get for your conference can also be maintained very satisfactory.

- **Innovative Multi Service Provider Access Bridge**
KDV8000E is capable to be connected simultaneously by multiple Internet Service Providers as a network bridge, which helps solving the bottleneck issues between different Service Providers caused by geography and commercial competition. Embedded within the machine, this function can maximize effective bandwidth and speed from each remote site, and no additional server is required.

- **Powerful Conference Features**
With uniquely rich layouts of up to 16 sites in Continuous Presence and powerful function of Intelligent Audio Mixing, KDV8000E supports a perfect interactive conference with each party. Conference Template and Conference Booking Service allow you to originate a conference with number of participants and various preset parameters, anytime just by simple button click. Also, Virtual Conference can be accessed by calling a number without any preset of participants. Furthermore, you may use Meeting Control Console (MCC), a friendly GUI software for a complete conference management.

- **Cost Effective and Protect Investment**
No matter with software or firmware platforms, both are fully integrated with service functions such as Gatekeeper (GK), firewall traversal proxy and T.120, KDV8000E is considered as an All-in-One solution for functions usually realized by several third party devices or servers. Thus, your system setup and maintenance cost will be tremendously reduced. Since the system can be easily upgraded through software to a higher version in terms of capacity, protocols and features, your investment is surely protected.

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Technical Specifications

Standards Followed
System standard: H.323, SIP
Video standard: H.263, H.263+, H.264
Audio standard: G.711、G.722.1 Annex
C/Polycom® Siren14™、G.728
Dual video standard: H.239
Network protocol: TCP/IP , Telnet, HTTP, FTP,
SNMP, DHCP, RTP/RTCP
Other standards: H.225, H.231, H.235, H.241,
H.242, H.243, H.245, H.281, H.460, T.120

System Capacity
Eleven selective configurations: 8, 12, 16, 20, 24,
28, 32, 40, 48, 56, and 64 users
Supporting a maximum of 16 groups of
conferences at the same time

Network Interface
One single 10/100Mbps interface and two
10/100/1000Mbps interfaces

Conference Rate
Up to 4 Mbps

Video Resolution
720P（1280×720）
4CIF（704×576）
CIF（352×288）
QCIF（176×144）
VGA（640×480）
SVGA（800×600）
XGA（1024×768）
SXGA(1080×1024)

Continuous Presence
2, 3, 4, 9 and 16 pictures
Multiple VIP layouts: 1 + N, 2 + N, 3 + N and
more styles
Voice activation auto-trace
Customized CP background and frame color

Audio Features
Intelligent Audio Mixing
Mute and Dumb control
Voice Active Detection

Conference Functions
Virtual Conference
Conference Template
Conference Booking
Director Control, Chairman Control, Voice
Activation, Auto Polling
Endpoint join-in request, chairman request,
speaker request, and chime-in request

Cascade Conference
Supporting visual MCC software

Caption
Conference caption scrolling
Configuration and management in WEB mode
Caption entry or file loading
SMS by Group sending or selective sending

Dual Video Stream
H.239 dual video stream
Adjustable dual stream bandwidth allocation
Right setting to originate dual stream

Data Conference *
T.120 standard conference
Rate range: 64Kbps ~ 2Mbps
Whiteboard, application sharing, file transfer and
multi-party chatting
Supporting the access of a maximum of 32 parties
∗ This function module is optional

Embedded GK
Endpoint registration
Address resolution
Call control
Bandwidth control
Regional management

Network Adaptability
H.460 NAT/firewall transversal
IPLR (Intelligent Packet Loss Recovery)
QoS (DiffServ, IP Precedence)
Auto recall after interruption
Access bridging with multiple networks
Multicast conference

Security Features
H.235 conference encryption
128-bit AES encryption
Conference password authentication, conference
lock protection
Management User authentication and authorization
Multicast user authentication

Management and Maintenance
Configuration in interface mode
Remote configuration/upgrade
System log

Electricity Characteristics
Power consumption: ≤128W
Power supply: AC (100V～240V/50~60Hz)

Environmental Requirement
Ground resistance: ≤ 5 Ω
Operating temperature: 0°C ~ 60°C
Operating humidity: 10% ~ 85% (non-
condensing)
Atmospheric pressure: 86 ~ 106 kPa

Physical Features
19-inch 2U rack mounted*
Height × width × depth: 88mm × 443mm ×
338mm
Weight: ≤ 5.7 kg
* Only for firmware platform