

7000 MXP

For the boardroom and executive conference room. Shares the performance features of the TANDBERG 8000 MXP, but with a smaller profile. Bright, clear displays framed in an elegant design and superior audio provide a face-to-face quality experience.



Digital NAM adds performance and clarity with true CD-quality audio.

DESIGN FEATURES

- Designed for the boardroom and executive conference rooms
- Dual 30" LCD monitors with 16:9 high resolution format
- Elegant, completely integrated solution
- Wide angle view camera with extensive zoom, pan and tilt
- Stereo and Digital NAM are enhanced by the optional satellite speaker system for superior audio

APPLICATION FEATURES

- Join up to 6 video and 5 audio sites with embedded MultiSite functionality
- Best possible call for each MultiSite participant with rate matching and transcoding
- Powerful live presentations through one-step PC plug-in or LAN connection
- View presentations and presenter simultaneously with either DuoVideo or H.239

PERFORMANCE FEATURES

- Choice of network:
 IP, ISDN and other external network
- Bandwidth: up to 2 Mbps ISDN/ 4 Mbps IP (6 Mbps in MultiSite)
- Superior video quality incorporating the H.264 standard
- True CD-quality audio
- Highest level of standards-based embedded encryption
- Protection against network interruptions in point-to-point and multipoint calls with automatic Downspeeding and IPLR

SYSTEM COMPONENTS

2 x 30" widescreen LCD monitors, wireless remote control, Tracker, W.A.V.E. II camera, microphone, Audio Module™, integrated cabling and stand

Dual 30" LCD monitors 16:9 high resolution widescreen format

BANDWIDTH

H.320 up to 2 Mbps H.323 up to 4 Mbps point-to-point Up to 6 Mbps total MultiSite bandwidth

VIDEO STANDARDS

H.261, H.263, H.263+, H.263++ (Natural Video), H.264

VIDEO FEATURES

Native 16:9 Widescreen Advanced Screen Lavouts Picture in Picture (PIP) Picture outside Picture (POP) Intelligent Video Management

VIDEO INPUTS (5 INPUTS)

1 x MiniDin, S-video: main camera 1 x MiniDin, S-video: auxiliary / document camera 1 x RCA / Phono, composite: document camera / aux 1 x RCA / Phono, composite: VCR

1 x DVI/SXGA: PC

VIDEO OUTPUTS (6 OUTPUTS)

1 x MiniDin, S-video: main monitor 1 x MiniDin, S-video: dual monitor

1 x RCA / Phono, composite: main monitor or VCR 1 x RCA / Phono, composite: dual monitor or VCR

2 x DVI/XGA: main and dual monitor

SXGA INPUT / XGA OUTPUT Input: 640 x 480 - 1280 x 1024 Output: 640 x 480 - 1024 x 768 Extended Display Identification Data (EDID) VESA Monitor Power Management

VIDEO FORMAT

NTSC, PAL, VGA, SVGA, XGA or SXGA

LIVE VIDEO RESOLUTIONS

NATIVE NTSC:

4SIF (704 x 480 pixels), Digital Clarity Interlaced SIF (352 x 480 pixels), Natural Video SIF (352 x 240 pixels)

NATIVE PAL: 4CIF (704 x 576 pixels), Digital Clarity Interlaced CIF (352 x 576 pixels), Natural Video CIF (352 x 288 pixels) QCIF (176 x 144 pixels) SQCIF (128 x 96 pixels) decode only

NATIVE PC RESOLUTIONS:

XGA (1024 x 768) SVGA (800 x 600 pixels) VGA (640 x 480 pixels)

STILL IMAGE TRANSFER

CIF, SIF, 4CIF (H.261 Annex D), 4SIF, VGA, SVGA, XGA

AUDIO STANDARDS

G.711, G.722, G.722.1, G.728, MPEG4 AAC-LD

AUDIO FEATURES

CD-Quality 20KHz Mono and Stereo Telephone add-on via MultiSite Four separate acoustic echo cancellers Audio mixer Automatic Gain Control (AGC) Automatic Noise Reduction Audio level meters VCR ducking

AUDIO INPUTS (6 INPUTS)

3 x microphone, 24V phantom powered, XLR connector (Mic input 3: Switchable mic or line level)
1 x RCA / Phono, Line Level: audio mixer
1 x RCA / Phono, Line Level: auxiliary (or VCR/DVD Stereo L)
1 x RCA / Phono, Line Level: VCR/DVD (Stereo R)

AUDIO OUTPUTS (3 OUTPUTS)

1 x RCA / Phono, S/PDIF (mono/stereo) or Analogue Line Level: main audio

1 x RCA / Phono, Line Level: auxiliary (or VCR Stereo L)

1 x RCA / Phono, Line Level: VCR (Stereo R)

FRAME RATES - POINT-TO-POINT & MULTISITE

30 frames per second @ 168 kbps and above 60 fields per second @ 336 kbps and above (Point-to-point)

MULTISITE FEATURES

Audio and Video Transcoding Video rate matching from 56 kbps – 2 Mbps Continuos Presence CP5+1, CP4 and Voice Switched Best Impression

H.264, Encryption, Digital Clarity
DuoVideo and H.239 mixed and from any site Telephony

ISDN & IP Downspeeding and IPLR

MULTISITE (H.243) CASCADING ON ISDN AND IP

Dial in / Dial out Chair control for host system

Snapshot of ongoing conference (JPEG)
Snapshot of ongoing DuoVideo/H.239 presentation (JPEG)

IP AND PRI/BRI/SERIAL INTERFACE (V.35)

Conference rates up to 6 Mbps Up to 6 video and 5 audio sites

4 sites @ 2 Mbps, 6 sites @ 768 (+telephone calls) Mix ISDN-PRI, ISDN-BRI or Serial Interface up to maximum conference rate

DUOVIDEO / H.239

NETWORK FEATURES

Auto H.320 / H.323 dialing Downspeeding Programmable network profiles Intelligent Call Management HO on ISDN-PRI Facility Maximum call length timer

Automatic SPID and line number configuration

(National ISDN, GR-2941-CORE)

Soft Mux

NATO standard KG194 / KIV-7 encryptor support

H.331 Broadcast Mode

IP Address Conflict Warning

EMBEDDED ENCRYPTION

 $\rm H.320$ and $\rm H.323$ point-to-point and multipoint calls Standards-based: H.233, H.234, H.235 v2&v3, DES and AES

NIST-validated AES

NIST-validated DES Automatic key generation and exchange Supported in DuoVideo,H.239 and Multisite

H.323 NETWORK FEATURES

Differentiated Services (DiffServ) Resource Reservation Protocol (RSVP) IP precedence

IP type of service (ToS)

IP adaptive bandwidth management (including flow control) Auto gatekeeper discovery

Dynamic playout and lip-sync buffering Intelligent Packet Loss Recovery (IPLR) Automatic support for private and public IP addresses

using NAT H.245 DTMF tones

SECURITY FEATURES

Management via HTTPS IP Administration Password Menu Administration Password Dialing Access code Streaming password H243 MCU Password VNC password SNMP security alerts Disable IP services

NETWORK INTERFACES

8x ISDN BRI (RJ-45), S-interface 1x E1 / T1 G.703 (RJ-45) for ISDN PRI or Leased E1 / T1 1x E1 / T1 G.703 (RJ-45) for future usage 1x LAN / Ethernet (RJ-45) 10/100 Mbit (LAN / DSL /

cable modem)

1 x X.21 / V.35 / RS-449 with RS-366 dialing, Leased Line

or data triggered mode

ETHERNET / INTERNET / INTRANET CONNECTIVITY TCP / IP, DHCP, ARP, FTP, Telnet, HTTP, HTTPS, SOAP and XML SNMP Enterprise Management

Internal web server

Internal streaming server

OTHER MAJOR ITU STANDARDS SUPPORTED

H.231, H.233, H.234, H.235, H.235 v2&v3, H.239, H.241, H.243, H.281, BONDING (ISO 13871), H.320, H.323, H.331, MPEG4 AAC-LD (20KHz audio)

W.A.V.E. (WIDE ANGLE VIEW) II CAMERA

10 x zoom 1/4" CCD +15° / -20° tilt + / -95°pan 61° vertical field of view 96° total vertical field of view 77° horizontal field of view

267° total horizontal field of view 460 (PAL) / 470 (NTSC) TV lines

Min. illumination 2 Lux (F1.8) Auto or manual focus / brightness / white balance

Far-end camera control 15 near and far-end camera pre-sets Voice-activated camera positioning

Daisy chain support for up to 4 cameras VISCA camera support

PRESENTATIONS AND COLLABORATION

Natural Presenter Package including:

PC Presenter PC SoftPresenter

Digital Clarity

DuoVideo and H.239 Advanced Video Layouts

T.120 Microsoft® NetMeeting® support via RS-232 (9-pin D-sub)

Streaming compatible with Cisco IP/TV. Apple QuickTime®, RealPlayer® v8 etc

CLOSED CAPTIONING/TEXT CHAT

SYSTEM MANAGEMENT

Support for the TANDBERG Management Suite
Total management via embedded web server, SNMP, Telnet and FTP

Remote software upload: during a call over all networks, via webserver or via FTP server

2 x RS-232 for local software upgrades, local control and diagnostics

Onscreen Menu on TV and/or VGA monitors

DIRECTORY SERVICES

Support for Local, Global and Dynamic Server Directories Unlimited entries using Server directory* supporting LDAP and H.350

400 number global directory 100 number local directory 16 dedicated MultiSite entries

11 SELECTABLE MENU LANGUAGES

Chinese, English, French, German, Italian, Japanese, Norwegian, Portuguese, Russian, Spanish and Swedish

CUSTOMIZED WELCOME SCREEN AND COMPANY LOGO

100 - 250 VAC, 50 - 60 Hz 65 watts max. for codec and main camera 500 watts max, per monitor

FOOTPRINT

Width: 28.3" / 72 cm Depth: 23.8" / 60.5 cm

* Requires TANDBERG Management Suite 9.0 or newer

System features vary depending on network selection and software package. All specifications subject to change without notice.

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