



TANDBERG 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

MONITORS

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 Layouts
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
Continuous Presence CP5+1, CP4 and Voice Switched
Best Impression
H.264, Encryption, Digital Clarity
DuoVideo and H.239 mixed and from any site
Telephone
ISDN & IP Downsampling 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)
Separate welcome page for encrypted conferences
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

Available on all networks

NETWORK FEATURES

Auto H.320 / H.323 dialing
Downsampling
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)
SoftMux
NATO standard KG194 / KIV-7 encryptor support
H.331 Broadcast Mode
IP Address Conflict Warning

EMBEDDED ENCRYPTION

H.320 and 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 payout 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

6 x ISDN BRI (RJ-45), S-interface
1 x E1 / T1 G.703 (RJ-45) for ISDN PRI or Leased E1 / T1
1 x E1 / T1 G.703 (RJ-45) for future usage
1 x 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
1 x USB

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 VIDEO) 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

T.140 standards-based

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

POWER

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.*

*TANDBERG is a registered trademark or trademark
of TANDBERG in the U.S. and other countries.*

*RealPlayer is a trademark or a registered trademark
of RealNetworks, Inc.*

*QuickTime is a registered trademark of Apple Computer,
Inc., registered in the U.S. and other countries.*

*Microsoft and NetMeeting are either registered trademarks
or trademarks of Microsoft Corporation in the United
States and/or other countries.*

All other trademarks are property of their respective owners.

TANDBERG

7000 MXP

TANDBERG WORLD HEADQUARTERS

Philip Pedersens vei 22
1366 Lysaker, Norway
Tel: +47 67 125 125
Fax: +47 67 125 234
Video: +47 67 117 777
E-mail: tandberg@tandberg.net

200 Park Avenue, Suite 2005
New York, NY U.S.A. 10166
Tel: +1 212 692 6500
Tel: +1 800 538 2884 (toll free in the U.S.)
Fax: +1 212 692 6501
Video: +1 212 692 6535
E-mail: tandberg@tandbergusa.com

July 2004



TANDBERG 8000 MXP

For the boardroom. Sleek, elegant design combined with state-of-the-art engineering. The most advanced features and functions for mission critical communication. 50" plasma screens and a best-in-class audio system provide the ultimate video experience.



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

DESIGN FEATURES

- Designed for boardroom applications
- Dual 50" plasma monitors with 16:9 widescreen format
- Sleek slim-line stand with monitors, camera, remote control, microphones and cabling
- Wide angle view camera with extensive zoom, pan and tilt
- Stereo and Digital NAM are enhanced by the 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 50" wide-screen plasma monitors, wireless remote control, Tracker, W.A.V.E. II camera, microphone, Digital Audio Module™, integrated cabling and stand
Optional Satellite Stereo Speakers

MONITORS

Dual 50" plasma screens
16:9 high resolution widescreen format

BANDWIDTH

H.320 up to 2 Mbps
H.323 up to 4 Mbps multi-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 Layouts
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
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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
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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 IP with ISDN-PRI, ISDN-BRI or Serial Interface up to
maximum conference rate

DUOVIDEO / H.239

Available on all networks

NETWORK FEATURES

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

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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
H.243 MCU Password
VNC password
SNMP security alerts
Disable IP services

NETWORK INTERFACES

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1 x E1 / T1 G.703 (RJ-45) for ISDN PRI or Leased E1 / T1
1 x E1 / T1 G.703 (RJ-45) for future usage
1 x 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
1 x USB

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H.331, MPEG4 AAC-LD (20KHz audio)

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+ / -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

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Natural Presenter Package including:
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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

T.140 standards-based

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

POWER

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

FOOTPRINT

Width: 33.9" / 86 cm Depth: 29.1" / 74 cm

** Requires TANDBERG Management Suite 9.0 or newer*

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and software package. All specifications subject to
change without notice.*

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TANDBERG

8000 MXP

TANDBERG WORLD HEADQUARTERS
Philip Pedersens vei 22
1366 Lysaker, Norway
Tel: +47 67 125 125
Fax: +47 67 125 234
Video: +47 67 117 777
E-mail: tandberg@tandberg.net

200 Park Avenue, Suite 2005
New York, NY U.S.A. 10166
Tel: +1 212 692 6500
Tel: +1 800 538 2884 (toll free in the U.S.)
Fax: +1 212 692 6501
Video: +1 212 692 6535
E-mail: tandberg@tandbergusa.com

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