



TANDBERG Director MXP

Rich media presentation tool for corporate, military and education applications. The Director MXP turns an interactive whiteboard and a video system into a powerful presentation, training and collaboration tool to join multiple locations.



The optional XGA touch panel is ideal for podium or desk presentations.

DESIGN FEATURES

- 67" display with onscreen touch controls
- Integrated mobile stand with electronic annotation markers and storage for multiple peripherals such as a PC and VCR
- Wide angle view camera with extensive zoom, pan and tilt
- Ability to add a laptop with auto-detect switching capability

APPLICATION FEATURES

- Join up to 6 video and 5 audio sites with embedded MultiSite functionality
- Powerful live presentations through one-step PC plug-in or LAN connection
- View presentations and presenter simultaneously with either DuoVideo or H.239 on single or dual monitor setup
- Display images from PCs, DVDs, VCRs, document cameras and other input devices
- Annotate over any PC program and display annotations to all conference participants
- TANDBERG Expressway™ Technology

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
- Standards-based embedded encryption (AES & DES)
- Protection against network interruptions in point-to-point and multipoint calls with automatic Down-speeding and IPLR

PROTECT YOUR TECHNOLOGY INVESTMENT. EXTEND THE LIFETIME OF YOUR PRODUCTS. TANDBERG's Constant Care Services fulfill customers' support needs from decision through deployment and beyond.

UNIT DELIVERED COMPLETE WITH:

67" touch screen, 6000 MXP Codec, Wave II camera, Audio Science Mic, cables

MONITOR

67" Touch Screen

BANDWIDTH

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

FIREWALL TRAVERSAL

TANDBERG Expressway Technology™
Auto NAT

VIDEO STANDARDS

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

VIDEO FEATURES

Intelligent Video Management
8 combined presets
XGA Output Resolution
Optional rear monitor
Side by Side
PC Zoom

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-I/SXGA: PC
Input: 800 x 600 (@ 60, 72, 75, 85 Hz), 1024 x 768 (@ 60, 70, 75 Hz), 1280 x 1024 @ 60 Hz

VIDEO OUTPUTS (4 OUTPUTS)

1 x RCA / Phono, composite: main monitor or VCR
1 x RCA / Phono, composite: dual monitor or VCR
XGA Output
1024 x 768 @ 60 Hz

VIDEO FORMAT

NTSC, PAL, VGA, SVGA, XGA, 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, 64 bit & 128 bit MPEG4 AAC-LD

AUDIO FEATURES

CD-Quality 20 KHz 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
Packet loss management
Active lip synchronization

AUDIO INPUTS (4 INPUTS)

3 x microphone, 24V phantom powered, XLR connector, each with separate echo cancellers
1 x RCA / Phono, Line Level: separate echo canceller
2 x RCA / Phono, Line Level: auxiliary (VCR/DVD)

AUDIO OUTPUTS (3 OUTPUTS)

1 x RCA / Phono, S/PDIF (mono/stereo) or Analogue Line Level: main audio or Analogue Stereo L
1 x RCA / Phono, Line Level: auxiliary (or Analogue Stereo R or VCR Stereo L)

FRAME RATES

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

DUAL STREAM

Duo Video & H.239
Available on H.323 & H.320
Available in Multisite from any site

NETWORK FEATURES

Auto H.320 / H.323 dialing
SIP
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)
SoftMux
NATO standard KG194 / KIV-7 encryptor support
H.331 Broadcast Mode

MULTISITE FEATURES

H.323/H.320/SIP/Telephony/VoIP in the same conference
Audio and Video Transcoding
Video rate matching from 56 kbps - maximum conference rate
CP4, CP 5 + 1 and Voice Switched
Best Impression (Automatic CP Layouts)
H.264, Encryption, Digital Clarity
Dual Stream from any site
ISDN & IP Downspeeding and IPLR
MultiSite (H.243) Cascading on H.320 & H.323
Dial in / Dial out
Chair control for host system
Separate welcome page for encrypted conferences
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 (BRI or PRI), or Serial Interface (V.35) with IP up to maximum conference rate

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 Dual Stream & MultiSite

IP NETWORK FEATURES

H.235 Authentication
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 layout and lip-sync buffering
Intelligent Packet Loss Recovery (IPLR)
H.245 DTMF tones in H.323
Cisco Call Manager integration using ECS
IP Address Conflict Warning

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
MD-5 Challenge
Network Settings protection
SIP Authentication via NTLM

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
2 x LAN / Ethernet (RJ-45) 10/100 Mbit
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, MD-5 Challenge
SNMP Enterprise Management
Internal web server
Internal streaming server

OTHER MAJOR STANDARDS SUPPORTED

H.231, H.233, H.234, H.235 v2&v3, H.239, H.241, H.243, H.281, BONDING (ISO 13871), H.320, H.323, H.331
RFC 3261, RFC 2237, RFC 3264, RC 3311, RFC 3550, RFC 2032, RFC 2190, RFC 2429, RFC 3407

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 4 cameras

CLOSED CAPTIONING/TEXT CHAT

T.140 text chat available from RS-232, Telnet, Web and User Interface

PRESENTATIONS AND COLLABORATION

Natural Presenter Package including:
PC Presenter (XGA In)
PC SoftPresenter

SYSTEM MANAGEMENT

Web Management
Codec Management via web browser, Telnet, FTP and SNMP, TMS
Remote/Local diagnostics and upgrades via modem or IP
1 x RS-232 local control and diagnostics
On-screen menu system

DIRECTORY SERVICES

Support for Local, Global and LDAP and H.350
400 number global directory
200 number local directory

LANGUAGE

English

CUSTOMIZED WELCOME SCREEN AND COMPANY LOGO

POWER

Auto-sensing power supply
100 - 250 VAC, 50 - 60 Hz
10 Amps

OPERATING TEMPERATURE AND HUMIDITY

0° C to 35° C (32° F to 95° F) ambient temperature
10% to 90% Relative Humidity (RH)

STORAGE AND TRANSPORT TEMPERATURE

-20° C to 60° C (-4° F to 140° F) at RH 10-90% (non-condensing)

APPROVALS

Directive 73/23/EEC (Low Voltage Directive)
-Standard EN 60950
Directive 89/336/EEC (EMC Directive)
-Standard EN 55022, Class B
-Standard EN 55024
-Standard EN 61000-3-2/-3-3
Directive 1999/5/EEC (R&TTE Directive)
-Standard TBR3
-Standard TBR4
Approved according to UL 60950
and CAN/CSA C22.2 No. 60950
Complies with FCC15B Class B

DIMENSIONS

Width : 145.8 cm (57.37")
Depth : 74.3 cm (29.25")
Height : 200 cm (79")
Weight : 326 kg

* Requires TANDBERG Management Suite version 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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