

770 MXP

For offices and small meeting rooms. Provides all the essential functionality for visual communications. This compact unit conveniently transforms any standard TV into an interactive meeting place, providing users with an outstanding business tool.

The TANDBERG MXP Profile Set-top Package option provides integrated, streamlined design for your office environment.



PROTECT YOUR TECHNOLOGY INVESTMENT WITH
TANDBERG'S PORTFOLIO OF CONSTANT CARE SERVICES.
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DESIGN FEATURES

- Designed for medium to small meeting rooms and shared office environments
- Elegantly designed all-inone set-top unit that fits easily on any standard television monitor
- Integrated wide angle view camera with extensive zoom, pan and tilt
- Optional MXP Profile
 Set-top Package available

APPLICATION FEATURES

- Powerful live presentations through one-step PC plugin or LAN connection
- Send and view presentations and presenter simultaneously with Dual Stream technology on single or dual monitor setup
- TANDBERG Expressway[™] Technology
- URI Dialing

PERFORMANCE FEATURES

- Choice of Network: up to 128 kbps ISDN or external network (H.320)/768 kbps IP (H.323 or SIP)
- PC card slot for wireless LAN connection
- Standards-based embedded encryption (AES & DES)
- True CD-quality audio
- Protection against network interruptions in point-to-point and multipoint calls with automatic Downspeeding and IPLR
- Superior video quality incorporating the H.264 standard



UNIT DELIVERED COMPLETE WITH:

Wireless remote control, Built-in came microphone, and cables

BANDWIDTH

H.320 up to 128 kbps H.323 up to 768 kbps SIP up to 768 kbps

FIREWALL TRAVERSAL

TANDBERG Expressway™ Technology Auto NAT H.460.18, H.460.19 Firewall Traversal

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 & Large POP Side by Side PC Zoom Intelligent Video Management Simultaneous videoconference & local PC mode Local Auto Layout

VIDEO INPUTS (4 INPUTS)

Built-in 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: PC

IN DVI-1. FC Input: 800 x 600 (@ 60, 72, 75, 85 Hz), 1024 x 768 (@ 60, 70, 75 Hz), 1280 x 720 (HD720P) (@ 50, 60 Hz), 1280 x 1024 @ 60 Hz

Extended Display Identification Data (EDID)

VIDEO OUTPUTS (4 OUTPUTS)

1 x MiniDin, S-video: main monitor 1 x RCA/Phono, composite: main monitor or VCR 1 x RCA/Phono, composite: dual monitor or VCR 1xDVI-1/XGA: main or second monitor XGA Output 800 x 600 @ 75 Hz, 1024 x 768 @ 60 Hz, 1280 x 768

(WXGA) @ 60 Hz, 1280 x 720 (HD720p) @ 60 Hz VESA Monitor Power Management

VIDEO FORMAT

NTSC, PAL, VGA, SVGA, XGA, W-XGA, SXGA and HD720p

LIVE VIDEO RESOLUTIONS

NATIVE NTSC:

400p (528 x 400 pixels) 4SIF (704 x 480 pixels), Digital Clarity Interlaced SIF (ISIF 352 x 480 pixels), Natural Video SIF (352 x 240 pixels)

NATIVE PAL:

448p (576 x 448 pixels) 4CIF (704 x 576 pixels), Digital Clarity Interlaced CIF (ICIF 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 v 480 nivels) WIDE RESOLUTIONS:

w288p (512 x 288 pixels) w448p (768 x 448 pixels)

w576p (1024 x 576 pixels) w720p (1280 x 720 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 20KHz Mono and Stereo Two separate acoustic echo cancellers Audio mixer Automatic Gain Control (AGC) Automatic Noise Reduction

Audio level meters VCR ducking

Optional Stereo Package Packet loss management

Active lip synchronization
GSM/Blackberry interference audio feature

AUDIO INPUTS (4 INPUTS)

2 x microphone, 24V phantom powered, XLR connector 1 x RCA/Phono, Line Level: auxiliary (or VCR Stereo L) 1 x RCA/Phono, Line Level: VCR/DVD (Stereo R)

AUDIO OUTPUTS (2 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: VCR or Analogue Stereo R

FRAME RATES

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

DUAL STREAM

DuoVideo including H.239 Available on H.323 & H.320

NETWORK FEATURES

Auto H.320/H.323 dialing SIP

Downspeeding Programmable network profiles Intelligent Call Management Maximum call length timer

Automatic SPID and line number configuration

(National ISDN, GR-2941-CORE)

Soft Mux

H.331 Broadcast Mode **URI** Dialing

EMBEDDED ENCRYPTION

H.320 and H.323 point-to-point 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

IP NETWORK FEATURES

IEEE 802.1x/EAP Network Authentication H.235 Gatekeeper Authentication DNS lookup for service configuration 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) H.245 DTMF tones in H.323

Cisco CallManager integration using ECS IP Address Conflict Warning

Date and Time support via NTP

IPv6 NETWORK SUPPORT

Dual Stack IPv4 and IPv6 simultaneous support Net service support on IPv6: Telnet, HTTP, HTTPS, ftp, SNMP, DNS, NTP, DHCP Media support on IPv6: H.323, Streaming

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 SIP Authentication via Digest NETWORK INTERFACES

1x ISDN BRI (RJ-45), S-interface
1x LAN/Ethernet (RJ-45) 10/100 Mbit
(LAN/DSL /cable modem)
1x PC card slot (PCMCIA) for wireless LAN 1 x USB for future usage

WIRELESS LAN SUPPORT

Compliant with IEEE 802.11b, up to 11 Mbit Support for 64/128 bit encryption (WEP) Infrastructure or ad-hoc mode

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 RFG 3261, RFC 2327, RFG 3264, RG 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 CLOSED CAPTIONING/TEXT CHAT

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

PRESENTATIONS AND COLLABORATION Natural Presenter Package including:

PC Presenter (DVI-I, SXGA In) PC SoftPresenter Digital Clarity & Native Formats Advanced Video Layouts
Streaming compatible with Cisco IP/TV, Apple QuickTime®, RealPlayer® v8 etc.

SYSTEM MANAGEMENT

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

Remote software upload: via web server, ftp server or ISDN 1 x RS-232 local control and diagnostics Remote control and on-screen menu system External Services from TMS

DIRECTORY SERVICES

Support for Local directories (My Contacts), Corporate Directory and Global Directory

Unlimited entries using Server directory* supporting

LDAP and H.350 Unlimited number for Corporate directory (through TMS)

400 number global directory

200 number local directory

Received Calls
Directories in Local Languages

Placed Calls

Missed Calls with Date and Time

16 SELECTABLE MENU LANGUAGES

Arabic, Simplified Chinese, Traditional Chinese, English, French, German, Italian, Japanese, Korean, Norwegian Portuguese, Russian, Spanish, Suomi, Swedish and Thai Chinese, Korean and Japanese Input Method Editor

CUSTOMIZED WELCOME SCREEN AND COMPANY LOGO

Picture JPEG (logo.jpg): Recommended maximum size is 704x576 for Welcome Screen and 352x288 for Encryption Required Screen.

POWER

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

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

Approved according to UL 60950 and CAN/CSA C22.2 No. 60950 Complies with FCC15B Class B

UNIT DIMENSIONS

Height: 5.1"/13.0 cm Width: 14.9"/38.0 cm Depth: 7.9"/20.0 cm Weight: 5.0 lbs/2.3 kg

* Requires TANDBERG Management Suite 9 or newer

All specifications subject to change without notice, system specifics may vary.

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MTBF PRODUCT RELIABILITY/MTBF MTBF PRODUCT RELIABILITY/MTBF
The predicted reliability is expressed in the expected random Mean Time Between Failures (MTBF) for the electronic components based on the Power On Hours: Power On Hours (POH) > 69 000 hours

TANDBERG

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