



## TANDBERG Centric 150 MXP

**Business-quality video communication for the individual workspace. This cost-effective solution is easy to use, provides embedded security and allows organizations to bring reliable, face-to-face communication to every employee. Use this portable system to place video and voice calls.**

Integrated keypad for both voice and video calls



#### DESIGN FEATURES

- Designed for personal video in any workspace
- Elegantly designed all-in-one system
- Integrated 8.4" LCD
- Ergonomically correct camera & screen position
- Integrated keypad for both voice and video calls
- Quick keys for easy control of system
- Speakerphone, headset jack for privacy or optional headset

#### APPLICATION FEATURES

- Business-quality visual and audio communications
- Simple user interface
- TANDBERG Expressway™ Technology
- View Presentations
- Designed for small or large scale deployment with TANDBERG Management Suite
- Optional IM and webconferencing
- URI Dialing

#### PERFORMANCE FEATURES

- Up to 512 kbps IP (H.323 or SIP)
- Superior video quality incorporating the H.264 standard
- Standards-based embedded encryption (AES & DES)
- Protection against network interruptions with automatic Downspeeding and IPLR
- H.235 Authentication

PROTECT YOUR TECHNOLOGY INVESTMENT WITH TANDBERG'S PORTFOLIO OF **CONSTANT CARE SERVICES**. VISIT [WWW.TANDBERG.NET](http://WWW.TANDBERG.NET)

**UNIT DELIVERED COMPLETE WITH:**

8.4" LCD, integrated keypad, integrated camera & microphone, and cables

**LCD SCREEN**

Wide viewing angle screen  
Manual brightness

**BANDWIDTH**

H.323 up to 512 kbps  
SIP up to 512 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.264

**VIDEO FEATURES**

Picture in Picture (PIP)  
Intelligent Video Management

**LIVE VIDEO RESOLUTIONS****NATIVE NTSC:**

4SIF (704 x 480 pixels), Digital Clarity, Receive only  
SIF (352 x 240 pixels)

**NATIVE PAL:**

4CIF (704 x 576 pixels), Digital Clarity, Receive only  
CIF (352 x 288 pixels)  
QCIF (176 x 144 pixels)  
SQCIF (128 x 96 pixels) Receive only

**RECEIVE NATIVE PC RESOLUTIONS:**

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

**WIDE RESOLUTIONS:**

w288p (512 x 288 pixels), Receive only  
w576p (1024 x 576 pixels), Receive only

**AUDIO STANDARDS**

G.711, G.722, G.722.1

**AUDIO FEATURES**

TANDBERG acoustic echo cancellation  
Automatic Gain Control (AGC)  
Automatic Noise Reduction

**PRIVACY FEATURE**

Headset and mic via 2.5 mm mini jack with light indication (optional)  
Video Privacy (mute) with light indication and far end mute indication  
Audio Privacy (mute) with light indication  
Camera lens cap

**FRAME RATES**

30 frames per second @ 168 kbps and above

**DUAL STREAM**

Receive DuoVideo including H.239

**CLOSED CAPTIONING/TEXT CHAT**

T.140 text chat available from User Interface

**EMBEDDED ENCRYPTION**

Standards-based: H.235 v2&v3, DES and AES  
NIST-validated AES  
NIST-validated DES  
Automatic key generation and exchange

**IP NETWORK FEATURES**

IEEE 802.1x/EAP Network Authentication  
H.235 Gatekeeper 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 playout and lip-sync buffering  
Automatic support for private and public IP addresses using NAT  
H.245 DTMF tones in H.323  
Cisco CallManager integration using ECS  
Static or Dynamic H.323 Ports  
IP Downspeeding  
Intelligent Packet Loss Recovery (IPLR)  
Intelligent Call Management  
Maximum call length timer  
IP Address Conflict Warning  
URI Dialing  
DNS lookup for service configuration  
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

**SECURITY FEATURES**

IP Administration Password  
Menu Administration Password  
Dialing Access code  
H.243 MCU Password  
Disable IP services  
Embedded encryption (AES & DES)  
Call status light indication  
Network Settings protection  
SIP Authentication via NTLM  
SIP Authentication via Digest

**NETWORK INTERFACES**

Internal 2 port Ethernet switch  
1 x LAN/Ethernet (RJ-45) 10/100 Mbit for PC  
1 x LAN/Ethernet (RJ-45) 10/100 Mbit for LAN/DSL/cable modem  
Power-over-Ethernet (PoE — IEEE 802.3af)

**ETHERNET/INTERNET/INTRANET CONNECTIVITY**

TCP/IP, DHCP, ARP, FTP, Telnet, SOAP and XML, SNMP

**OTHER MAJOR ITU STANDARDS SUPPORTED**

H.225, H.235 v2 & v3, H.241, H.243, H.245, H.281  
RFC 3261, RFC 2237, RFC 3264, RC 3311, RFC 3550,  
RFC 2032, RFC 2190, RFC 2429, RFC 3407

**CAMERA**

1/4" CCD  
+10°/-10° tilt  
32° Vertical field of view  
36° Total vertical field of view  
45° Horizontal field of view  
48° Total horizontal field of view  
460 (PAL)/470 (NTSC) TV lines  
Min. illumination 1.1 Lux (Video Output 50%, AGC ON, Standard lens)  
Reference 0.4 Lux (Video Output 50%, AGC ON, F1.4)  
Manual focus & brightness  
Far-end camera control  
Automatic white balance

**CLOSED CAPTIONING**

TTY (Telephone Text) support (via 2.5mm headset jack)

**SYSTEM MANAGEMENT**

Support for the TANDBERG Management Suite  
Telnet, XML, SOAP, FTP, SNMP  
Remote software upload: via web server or FTP

**DIRECTORY SERVICES**

Support for Local Directories (My Contacts) and Corporate Directory  
Unlimited entries using Server directory\* supporting LDAP and H.350  
Unlimited number for corporate directory (through TMS)  
200 number local directory  
Received Calls with Date and Time  
Placed Calls with Date and Time  
Directories in Local Languages  
Missed Calls with Date and Time  
Speed dial from directory using SoftKeys

**15 SELECTABLE MENU LANGUAGES**

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

**POWER**

Auto-sensing power supply  
100–250 VAC, 50–60 Hz  
24 watts max. (12.95 with PoE 802.3af)

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

**UNIT DIMENSIONS**

Height: 34.6 cm (13.6 inches)  
Width: 23 cm (9 inches)  
Depth: 20.4 cm (8 inches)  
Footprint: 17 cm x 18.5 cm (6.68 inches x 7.3 inches)  
Weight: 1.5 kg (3.3 lbs)

\* Requires TANDBERG Management Suite version 9.5 or newer

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

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**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  
Useful Life Cycle > 6 years  
ISO 9001 certificate is available upon request

**TANDBERG**

# Centric 150 MXP

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