

TANDBERG

E20

TANDBERG is reinventing the desk phone by merging voice, video and collaboration into one device. A highly scalable solution for enterprise mass deployment, everyone in the organization will immediately see the benefits of increased productivity and daily collaboration.



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DESIGN FEATURES

- Attractive Scandinavian design
- Superior quality
 IP telephone with advanced features
- Intuitive user interface and keypad for quick access to all IP phone and video services
- Wideband 10 kHz handset
- Easy to deploy and manage

APPLICATION FEATURES

- Video and voice for every desk
- Scalable for enterprise mass deployment
- Richer collaboration than only phone calls can provide
- Unite remote workers and other members of the organization
- Scale expertise across the organization
- Familiar IP telephone features such as a message waiting indicator/button
- Handset, headset, speakerphone flexibility

PERFORMANCE FEATURES

- Ultra wideband 20 kHz speaker phone
- TANDBERG acoustic echo cancellation
- High-resolution TANDBERG camera with integrated privacy shutter
- DVD quality, w448p video resolution
- 10.6" wide format LCD display with WXGA resolution
- Bandwidth SIP up to 1152 kbps
- Firewall traversal through TANDBERG Video Communications Server (VCS) Expressway

FULLY INTEGRATED UNIT INCLUDING:

LCD screen, camera, microphone, loudspeaker, keypad and handset

Delivered with power supply/cable and Ethernet cable.

LCD SCREEN

10.6" wide viewing angle screen WXGA (1280×768)

Manual brightness, contrast, color RGB

TANDBERG custom camera design 1/2.5" CMOS sensor Aperture F2.7 50° Horizontal field of view 29° Vertical field of view (39° total)

+5°/-5° digital tilt Manual focus

Focus distance 0.3m-infinity

1280 x 720 progressive @30 fps

Automatic frequency detection (PAL/NTSC) Automatic and manual brightness/white balance

BANDWIDTH

VIDEO STANDARDS

H.264, H.263+, H.263

VIDEO FEATURES

Picture in Picture (PIP)

VIDEO RESOLUTIONS AND FRAME RATES

TRANSMIT AND RECEIVE:

768 x 448@30fps (w448p) 576 x 448@30fps (448p)

512 x 288@30fps (w288p)

352 x 288@30fps (CIF)

176 x 144@30fps (QCIF)

RECEIVE ONLY:

1280 x 768@7,5fps (WXGA) 1024 x 768@7,5fps (XGA)

1024 x 576@7,5fps (w576) 800 x 600@7,5fps (SVGA)

704 x 480@15fps (4SIF)

704 x 480@15fps (4CIF)

640 x 480@15fps (VGA)

352 x 240@30fps (SIF)

AUDIO STANDARDS

MPEG4 AAC-LD, G.729ab, G.722, G.722.1, G.711

AUDIO FEATURES

Ultra wideband 20 kHz speaker phone Wideband 10 kHz handset

RJ11 headset port

TANDBERG acoustic echo cancellation

Automatic Gain Control (ACG) Automatic Noise Reduction

Packet loss management Active lip synchronization

PRIVACY FEATURES

Camera with integrated privacy shutter Video mute button with backlight indicator and far-end video mute indication

Audio mute button with backlight indicator and far-end audio mute indication

Headset button with backlight indicator

USER UNTERFACE

On-screen graphic user interface Navigation cluster with select button Message waiting indicator/button 5 contextual soft keys

DUAL STREAM

Receive DuoVideo on SIP BFCP

FIREWALL TRAVERSAL

Through TANDBERG Video Communications Server (VCS)

EMBEDDED ENCRYPTION

AES with SRTP and TLS Automatic key generation and exchange

IP NETWORK FEATURES

Differentiated Services (DiffServ)
Dynamic play out and lip-sync buffering Intelligent Packet Loss Recovery (IPLR)
Maximum call length timer

IP Address Conflict Warning

URI Dialing

DNS lookup for service configuration Date and Time support via NTP

IP NETWORK SUPPORT

SECURITY FEATURES

IP Administration Password Menu Administration Password Embedded encryption (AES) Call status light indication SIP Authentication via NTLM SIP Authentication via Digest

NETWORK INTERFACES

Management via HTTPS and SSH

Internal 2-port Ethernet switch 1 x LAN/Ethernet (RJ-45) 10/100/1000 Mbit for PC

1 x LAN/Ethernet (RJ-45) 10/100/1000 Mbit for LAN

AUXILIARY INTERFACES

USB host port for future applications Bluetooth module for future applications

ETHERNET/INTERNET/INTRANET CONNECTIVITY

TCP/IP, DHCP, ARP, SMMP, SSH, SCP, SOAP and XML Internal Web server, HTTP, HTTPS

CLOSED CAPTIONING

TTY (Telephone Text) support via handset

SYSTEM MANAGEMENT

Support for the TANDBERG Management Suite SSH, XML, SOAP, SNMP Remote software upload via Web server or SSH/SCP

DIRECTORY SERVICES

Support for Local Directories (My Contacts) Support for Server Directory via TMS* Received, Placed and Missed Calls with Date and Time

Auto-sensing power supply 100-240 VAC, 50-60 Hz 24 watts max

OPERATING TEMPERATURE AND HUMIDITY

0° C to 35° C (32° F to 95° F) ambient temperature 10% to 80% Relative Humidity (RH)

STORAGE AND TRANSPORT TEMPERATURE

-20° C to 60° C (-4° F to 140° F) at RH 10–80% (non-condensing)

APPROVALS

Directive 2006/95/EC (Low Voltage Directive)

— Standard EN 60950-1 2nd ed
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 60950-1 2nd ed and CAN/CSA C22.2 No. 60950-1-07 2nd ed

Complies with FCC15B Class B

UNIT DIMENSIONS

Height: 34.7 cm (13.7 inches) Width: 31.6 cm (12.4 inches), 27.7 cm (10.9 inches) without

handset cradle

Depth: 17.0 cm (6.9 inches) Footprint: 17.0 cm x 31.6 cm (6.68 inches x 7.3 inches)

Weight: 1.9 kg (4.2 lbs)

*Requires TANDBERG Management Suite version 12 or newer

All specifications subject to change without notice, system

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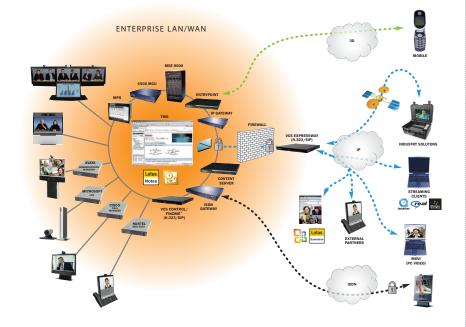
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MTBF PRODUCT RELIABILITY/MTBF

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



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