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.

**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
- Familiar IP telephone features such as a message waiting indicator/button

**APPLICATION FEATURES**
- Video and voice for every desk
- Scalable for enterprise mass deployment
- Richer collaboration than only phone calls can provide
- Easily include additional users to your video call with the Multiway feature
- Unite remote workers and other members of the organization
- Scale expertise across the organization

**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

E20 supports MultiWay which intuitively and instantly integrates multiple party video calls.
FULLY INTEGRATED UNIT INCLUDING:
- LCD screen, camera, microphone, loudspeaker, keypad and handset
- Delivered with power supply/cable and Ethernet cable.

LCD SCREEN
- 10.5" wide viewing angle screen
- WXGA (1280x768)
- Manual brightness, contrast, color RGB

CAMERA
- TANDBERG custom camera design
- 1/2.5" CMOS sensor
- Aperture F2.7
- 50° Horizontal field of view
- 29° Vertical field of view (35° total)
- +5°/-5° digital tilt
- Manual focus
- Focus distance 0.3m–infinity
- 1280 x 720 progressive @30 fps
- Ambient light frequency detection
- Automatic and manual brightness/white balance

BANDWIDTH
- SIP up to 1125 kbps

VIDEO STANDARDS
- H.264, H.263+, H.263

VIDEO FEATURES
- Native 16:9 Widescreen

VIDEO RESOLUTIONS AND FRAME RATES
- TRANSMIT AND RECEIVE:
  - 1024 x 768 @7.5fps (XGA)
  - 1024 x 576 @7.5fps (w576)
  - 704 x 480 @15fps (4SIF)
  - 352 x 240 @30fps (SIF)
- RECEIVE ONLY:
  - 176 x 144 @30fps (QCIF)
  - 576 x 448 @30fps (448p)
  - 768 x 448 @30fps (w448p)

VIDEO STANDARDS
- SIP up to 1152 kbps

IP NETWORK FEATURES
- Differentiated Services (Diffserv)
- Dynamic play out and lip-sync buffering
- Maximum call length timer
- IP Address Conflict Warning
- URI Dialing
- DNS lookup for service configuration
- Date and Time support via NTP

IP NETWORK SUPPORT
- IPv4

SECURITY FEATURES
- Kensington Lock
- IP Administration Password
- Menu Administration Password
- Embedded encryption (AES)
- Call status light indication
- SIP Authentication via NTLM
- SIP Authentication via Digest
- Management via HTTPS and SSH

NETWORK INTERFACES
- Internal 2-port Ethernet switch
  - 1 x LAN/Ethernet (RJ-45): 10/100/1000 Mbps for PC
  - 1 x LAN/Ethernet (RJ-45): 10/100/1000 Mbps for LAN

AUDIO FEATURES
- Ultra wideband 20 kHz speaker phone
- Wideband 10 kHz handset
- RJ9 headset port
- TANDBERG acoustic echo cancellation
- Automatic Gain Control (AGC)
- 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 INTERFACE
- On-screen graphic user interface
- Navigation cluster with select button
- Message waiting indicator/button
- 5 contextual soft keys

DUAL STREAM
- Receive Dual Video on SIP BFCP
- Soft key to switch between viewing received presentation and camera view

MULTIPARTY CONFERENCING
- MultiWay™ feature support, for instant initiation of multiparty video conferences using a multipoint control unit
- MultiWay™ conference layout control using dial tones (DTMF)

FIREWALL TRAVERSAL
- Through TANDBERG Video Communications Server (VCS)

EMBEDDED ENCRYPTION
- AES over SRTP and TLS

THROUGH TANDBERG Video Communications Server (VCS)

MULTIWAY
- MultiWay Support
- Support for intuitive, instant initiation of multiparty video conferences using a multipoint control unit
- Conference layout control using dial tones (DTMF)

DUAL STREAM
- Support for Server Directory via TMS
- Received, Placed and Missed Calls with Date and Time
- SELECTABLE LANGUAGE MENU SUPPORT
- English, Simplified Chinese, French, German, Italian, Japanese, Korean, Norwegian, Portuguese, Russian, Spanish, Swedish and Turkish

POWER
- 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
- Standard EN 55022, Class B
- Standard EN 55024
- Directive 2006/95/EC (EMC Directive)
- Standard EN 61000-3-2 / 3-3
- Approved according to IEC 61095-1 2nd ed and Class B
- Complies with FCC 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 7.5 inches)
- Weight: 1.9 kg (4.2 lbs)

* Requires TANDBERG Management Suite version 12.1 or newer
** MultiWay feature requires additional network equipment for functionality

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) = 60 000 hours
Useful Life Cycle = 6 years
ISO 9002 certificate is available upon request.

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