TANDBERG 8000

See elegance.

Design features

- Designed for boardroom applications
- Dual 50" plasma monitors with 16:9 widescreen format
- Sleek slim-line stand with monitors, camera, remote control, microphones and cabling
- Wide angle view camera with extensive zoom, pan and tilt

Application features

- Join up to 4 video sites and 1 audio site with embedded MultiSite^{TF} functionality
- Powerful live presentations through one-step PC plug-in (PC Presenter^{TF}) or LAN connection (PC *Soft*Presenter^{TF})
- View presentations and presenters simultaneously with the unique DuoVideo^{TF} feature
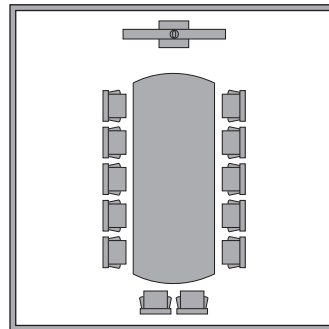
Performance features

- Choice of network: IP, ISDN and other external network
- Bandwidth: up to 2 Mbps ISDN / 3 Mbps IP
- Superior video quality incorporating the H.264 standard
- Natural Audio Module™ II (NAMII) with amplifier and three loudspeakers provides premium quality audio for large groups
- Highest level of standards-based embedded encryption
- Protection against network interruptions with automatic Downspeeding^{TF} and IPLR^{TF}

Sleek, elegant design enhances the boardrooms for which it was designed.

50" plasma monitors deliver high impact for executive presentations.

The TANDBERG 8000 is ideal for boardroom applications.

The TANDBERG 8000 commands attention. With its elegant design and state-of-the-art engineering, this system significantly enhances the exclusive boardrooms for which it was designed. The eye-catching 50" plasma screens provide exceptional visibility, capturing the attention of all meeting participants. Advanced features and functions put users at the forefront of video communications with everything necessary for mission critical communication.

TANDBERG

The TANDBERG 8000 delivers a *Real Communication Experience.*™

SYSTEM COMPONENTS
2 x 50" wide-screen plasma monitors, wireless remote control, Tracker, W.A.V.E. II camera, microphone, Natural Audio Module™ II, integrated cabling and stand

MONITORS
Dual 50" plasma screens
16:9 high resolution widescreen format

BANDWIDTH
H.320 up to 2 Mbps
H.323 up to 3 Mbps

VIDEO STANDARDS
H. 261, H.263, H.263+, H.263++ (Natural Video™), H.264

VIDEO FEATURES
Picture in Picture (PIP)
Intelligent Video Management™

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 XGA: PC

VIDEO OUTPUTS (5 OUTPUTS)
1 x MiniDin, S-video: main monitor
1 x MiniDin, S-video: dual monitor
1 x RCA / Phono, composite: main monitor or VCR
1 x RCA / Phono, composite: dual monitor or VCR
1 x XGA: main monitor, dual monitor or XGA loop

XGA INPUT / XGA OUTPUT
Input: 640 x 480 – 1024 x 768, 56 - 85 Hz. auto-detection
Output: 640 x 480 – 1024 x 768, 60 Hz

VIDEO FORMAT
NTSC, PAL, VGA, SVGA or XGA

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

AUDIO FEATURES
Telephone add-on via MultiSite™
TANDBERG Natural Audio Module™ II
Four separate acoustic echo cancellers
Audio mixer
Automatic gain control
Automatic noise reduction
Audio level meters
VCR ducking

AUDIO INPUTS (6 INPUTS)
3 x microphone, 24V phantom powered, XLR connector
1 x RCA / Phono, Line Level: audio mixer
1 x RCA / Phono, Line Level: auxiliary
1 x RCA / Phono, Line Level: VCR

AUDIO OUTPUTS (3 OUTPUTS)
1 x RCA / Phono, Line Level: main audio
1 x RCA / Phono, Line Level: auxiliary
1 x RCA / Phono, Line Level: VCR

FRAME RATES – POINT-TO-POINT & MULTISITE™
15 frames per second @ 56 - 128 kbps
30 frames per second @ 168 kbps - 3 Mbps
Point-to-point only: 60 fields per second @ 336 kbps - 3 Mbps (Natural Video™)

MULTISITE™ FEATURES
Support for ISDN or IP telephones
ISDN & IP Downspeeding™ at call set-up
Dial in / Dial out capabilities
Continuous Presence or Voice Switched
Chair control for host system
5 sites including min. 1 telephone call
Built-in MultiSite™ audio bridge for up to 5 sites
Built-in MultiSite™ IP audio bridge for up to 4 sites
DuoVideo™, Digital Clarity™

MultiSite™ (H.243) Cascading over ISDN and IP
Up to 10 video sites + 4 audio sites
Any combination of IP & ISDN connections (transcoding)

MultiSite™ over IP
4 sites @ 768 kbps + 1 telephone call over ISDN
3 sites @ 1 Mbps + 2 telephone calls over ISDN
Point-to-point @ 3 Mbps + 3 telephone calls over ISDN

MultiSite™ over ISDN PRI E1(T1) and IP
4 sites @ 512 (384) kbps + 1 telephone call over ISDN
3 sites @ 768 (512) Mbps + 2 telephone calls over ISDN
Point-to-point @ 1.5 (1) Mbps + 3 telephone calls over ISDN

MultiSite™ over ISDN BRI and IP
4 sites @ 256 kbps or 3 sites @ 384 kbps
4 sites @ 192 kbps + 1 telephone call over ISDN
3 sites @ 256 kbps + 2 telephone calls over ISDN
Point-to-point @ 512 kbps + 3 telephone calls over ISDN

MultiSite™ over V.35 and IP
4 sites (one site on V.35) @ 512 kbps
3 sites (one site on V.35) @ 768 kbps

DUOVIDEO™
Available on all networks
Available from host system in MultiSite™ (over IP & ISDN)

NETWORK FEATURES
Auto H.320 / H.323 dialing
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

EMBEDDED ENCRYPTION
H.320 and H.323 point-to-point and multipoint calls
Standards-based: H.233, H.234, H.235, DES and AES
NIST-validated AES
NIST-validated DES
Automatic key generation and exchange
Supported in DuoVideo™

H.323 NETWORK FEATURES
Differentiated Services (DiffServ)
Resource Reservation Protocol (RSVP)
IP precedence
IP type of service (ToS)
Network Address Translation (NAT) support
IP adaptive bandwidth management (including flow control)
Auto gatekeeper discovery
Dynamic playout and lip-sync buffering
Intelligent Packet Loss Recovery™ (IPLR™)
IP Address Conflict Warning

SECURITY FEATURES
Encrypted IP Password
Menu Password
Access code
Streaming password
H.243 MCU password
VNC password
SNMP security alert
Encrypted HTTP password
Possibility to disable IP services

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 ISDN PRI cascading
1 x LAN / Ethernet (RJ-45) 10/100 Mbit (LAN / DSL / cable modem)
1 x X.21 / V.35 / RS-449 with RS-366 dialing, Leased Line or data triggered mode

ETHERNET / INTERNET / INTRANET CONNECTIVITY
TCP / IP, DHCP, ARP, FTP, Telnet, HTTP
SNMP Enterprise Management
Internal web server
Internal streaming server (streams local and far-end site)
10/100 Mbit full / half duplex (manual or auto detect selection)

OTHER MAJOR ITU STANDARDS SUPPORTED
H.231, H.233, H.234, H.235, H.241, H.243, H.281, BONDING (ISO 13871), H.320, H.323, H.331

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 up to 4 cameras
VISCA camera support

PRESENTATIONS AND COLLABORATION
Natural Presenter Package including:
PC Presenter™
PC SoftPresenter™
Digital Clarity™
DuoVideo™
Automatic selection of video or VGA on presentation monitor (second monitor)
T.120 Microsoft® NetMeeting® support via RS-232 (9-pin D-sub)
Streaming compatible with Cisco IP/TV, Apple QuickTime®, RealPlayer® v8 etc.
50" (16:9) monitors, (1280 x 768 pixels) for local presentations

CLOSED CAPTIONING/TEXT CHAT
T.140 standards-based

SYSTEM MANAGEMENT
Support for the TANDBERG Management Suite
Total management via embedded web server, SNMP, Telnet and FTP
Remote software upload: during a call over all networks, via webserver or via FTP server
1 x RS-232 used for main camera control
1 x RS-232 for local software upgrades, local control and diagnostics
Remote control and menu system

DIRECTORY SERVICES
400 number global directory
100 number local directory
16 dedicated MultiSite™ entries

11 SELECTABLE MENU LANGUAGES
Chinese, English, French, German, Italian, Japanese, Norwegian, Portuguese, Russian, Spanish and Swedish

CUSTOMIZED BOOT UP LOGO (JPEG)

POWER
100 - 250 VAC, 50 - 60 Hz
65 watts max. for codec and main camera
500 watts max. per monitor

FOOTPRINT
Width: 33.9" / 86 cm
Depth: 29.1" / 74 cm

TF indicates a TANDBERG First

System features vary depending on network selection and software package. All specifications subject to change without notice.

Cisco Compatible