



## See versatility.

### Design features

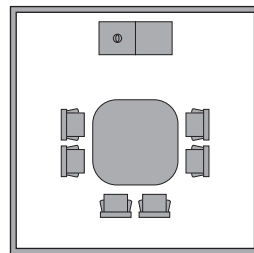
- Designed for medium to large meeting rooms
- Single or dual monitors (27" NTSC or 29" PAL)
- Easily maneuverable cart
- Wide angle view camera with extensive zoom, pan and tilt

### Application features

- Join up to 4 video sites and 1 audio site with embedded MultiSite™ functionality
- Powerful live presentations through one-step PC plug-in (PC Presenter™) or LAN connection (PC SoftPresenter™)
- View presentations and presenters simultaneously with the unique DuoVideo™ feature

### Performance features

- Choice of network: IP, ISDN and other external network
- Bandwidth: up to 384 kbps ISDN / 768 kbps IP
- Superior video quality incorporating the H.264 standard
- Highest level of standards-based embedded encryption
- Protection against network interruptions with automatic Downspeeding and IPLR™



The TANDBERG 2500 is ideal for medium to large meeting rooms.

The TANDBERG 2500 is a complete videoconferencing system in a compact package. Easy to transport with a specially designed cart, this versatile unit can be moved to wherever you need it most. With a package of optional features, the TANDBERG 2500 is a highly affordable system that can be tailored to your company's needs. The intuitive user interface is common to all TANDBERG systems and makes it easy for even new users to place a call.

**SYSTEM COMPONENTS**

1 or 2 monitors, wireless remote control, W.A.V.E. II camera, microphone, integrated cabling, rollabout stand

**MONITOR**

27" monitor NTSC or 29" monitor PAL  
Other monitors supported.

**BANDWIDTH**

H.320 up to 384 kbps  
H.323 up to 768 kbps

**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 RESOLUTION****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 pixels)  
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™  
Audio level meters  
Automatic noise reduction  
Two separate acoustic echo cancellers  
Audio mixer  
Automatic gain control  
VCR ducking

**AUDIO INPUTS (4 INPUTS)**

2 x microphone, 24V phantom powered, XLR connector  
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 – 768 kbps  
Point-to-point only: 60 fields per second @ 336 kbps –  
768 kbps (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™ IP audio bridge for up to 4 sites  
DuoVideo™, Digital Clarity™  
**MultiSite™ (H.243) Cascading over ISDN and IP**  
Up to 10 video and 4 audio sites  
Any combination of IP & ISDN connections (transcoding)

**MultiSite™ over IP**

4 sites @ 256 kbps + 1 telephone call over ISDN  
3 sites @ 384 kbps + 2 telephone calls over ISDN  
Point-to-point @ 768 kbps + 3 telephone calls over ISDN

**MultiSite™ over ISDN BRI and IP**

4 sites @ 128 kbps or 3 sites @ 192 kbps  
3 sites @ 128 kbps + 2 telephone calls over ISDN  
Point-to-point @ 192 kbps + 3 telephone calls over ISDN

**MultiSite™ over V.35 and IP**

4 sites (one site on V.35) @ 128 kbps  
3 sites (one site on V.35) @ 192 kbps

**DUOVIDEO™**

Available on all networks  
Available from host system in MultiSite™

**NETWORK FEATURES**

Auto H.320 / H.323 dialing  
Downspeeding™  
Programmable network profiles  
Intelligent Call Management™  
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 lipsync 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**

3 x ISDN BRI (RJ-45), S-interface  
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™  
T.120 Microsoft® NetMeeting® support via RS-232 (9-pin D-sub)  
Streaming (compatible with Cisco IP / TV, Apple QuickTime®,  
RealPlayer® v8 etc.)

**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,  
diagnostics  
Remote control and on-screen 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**

Auto-sensing power supply  
100 – 250 VAC, 50 – 60 Hz  
65 watts max. for codec and main camera

**FOOTPRINT**

Width: 37.9" / 96.3 cm  
Depth: 26.2" / 66.5 cm

*TF indicates a TANDBERG First*

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



*The TANDBERG 2500 has been tested in accordance with interoperability  
criteria set by Cisco Systems, Inc. and is compatible with the Cisco  
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