



The TANDBERG 8000 commands attention. The eye-catching 50" plasma screens and sleek design enhance the exclusive boardrooms for which they were designed. The wide screen format provides exceptional visibility, ensuring that the meeting participants and presentations remain the center of attention. With the TANDBERG 8000's unrivaled combination of design and technology, you will be at the forefront of video communications.

All products adhere to International Telecommunication Union standards.

™ A TANDBERG FIRST

For more information please contact any of the TANDBERG offices or write to [tandberg@tandberg.no](mailto:tandberg@tandberg.no)

### Top-of-the-line Videoconferencing

Elegant design complete with stand, camera, and two x 50" plasma screens.

### Live PC Presentations

- Powerful live presentations through one-step PC plug-in or LAN connection
- View presentations on one screen and the presenter on the other using TANDBERG's unique DuoVideo™

### Multiple Networks

- Call on IP and/or ISDN
- System automatically detects your choice of network

### Multiple Sites

Join up to 10 sites on video and 4 sites on audio.

### Superb Audio and Video Quality

- High bandwidth systems of up to 3Mbps delivering excellent resolution at 60 fields per second
- 16:9 wide screen format, 1280 pixels x 768 pixels providing crystal clear images
- Natural Video™ for a full screen picture with broadcast TV quality
- Quality speakers and an additional TANDBERG Audio Module™ for extra clear sound
- Wide angle view camera with extensive zoom, pan and tilt capabilities

### Easy to Use

Interface like a mobile phone.

### Reliable

Protection against network interruptions provided by Downspeeding™.

All TANDBERG products supported by value-added services and the Global Presence Program.



Boardroom

Large Meeting Room

Medium Meeting Room

Small Meeting Room

Executive Office

## System Components

1 or 2 50" wide-screen plasma monitors (NTSC or PAL), wireless remote control, W.A.V.E. camera, microphone, Natural Audio Module™, integrated cabling and stand

## Bandwidth

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

## Video Standards

H. 261, H.263, H.263+, H.263++ (Natural Video™)

## 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 SVGA: main monitor, dual monitor or SVGA loop

## Video Format

NTSC or PAL

## 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)  
**Native PC Resolutions:**  
SVGA (800 x 600 pixels)  
VGA (640 x 480 pixels)

## Still Image Transfer

CIF, SIF, 4CIF, H.261 Annex D

## Audio Standards

G.711, G.722, G.722.1, G.728

## Audio Features

Telephone add-on via MultiSite™  
TANDBERG Natural Audio Module™  
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

## XGA Input / SVGA Output

Input: 640 x 480 – 1024 x 768, 56 - 85 Hz. auto-detection  
Output: 640 x 480 – 800 x 600, 60 Hz

## Frame Rates – Point to Point & MultiSite™

15 frames per second @ 56 - 128kbps  
30 frames per second @ 168kbps - 3Mbps  
60 fields per second @ 336kbps - 3Mbps (Natural Video™)

## MultiSite™ Features

Any combination of IP & ISDN connections (transcoding)  
ISDN & IP Downspeeding™ at call set-up  
Dial in / Dial out capabilities  
Continuous Presence or Voice Switched  
5 sites including min. 1 telephone call  
Built-in MultiSite™ audio bridge for up to 5 sites  
Duo Video™, Digital Clarity™, Natural Video™  
MultiSite™ over IP  
4 sites @ 64-768kbps + 1 telephone call over ISDN  
3 sites @ 64-1Mbps + 2 telephone calls over ISDN  
Point-to-point @ 3Mbps + 3 telephone calls via ISDN  
MultiSite™ over ISDN PRI / E1(T1)  
4 sites @ 56 - 512 (384)kbps + 1 telephone call via ISDN  
3 sites @ 56 - 768 (512)kbps + 2 telephone calls via ISDN  
Point-to-point @ 56 - 1.5 (1)Mbps + 3 telephone calls via ISDN  
MultiSite™ over ISDN / 6BRI  
4 sites @ 256kbps or 3 sites @ 384kbps  
4 sites @ 56 - 192kbps + 1 telephone call via ISDN  
3 sites @ 56 - 256kbps + 2 telephone calls via ISDN  
Point-to-point @ 56 - 512 kbps + 3 telephone calls via ISDN  
MultiSite™ (H.243) Cascading over ISDN PRI / E1(T1) and IP  
Up to 10 video sites @ 512 (384)kbps + 4 audio sites

## Duo Video™

Available on all networks  
Available in MultiSite™ (over IP & ISDN)

## Network Features

Auto H.320/H.323 dialing  
Downspeeding™  
Programmable network profiles  
Password protection  
Intelligent Call Management™  
Ho on ISDN-PRI Facility  
NATO standard KG194 encryptor support  
Automatic SPID and line number configuration (National ISDN, GR-2941-CORE)  
SoftMux™  
H.331 Broadcast Mode

## H.323 Network Features

IP precedence (QoS)  
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

## 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  
Support for the TANDBERG Management Suite  
10/100Mbit full/half duplex (manual or auto detect selection)

## Other Supported ITU Standards

H.320, H.323, H.281, BONDING (ISO 13871), H.231, H.243, H.331

## W.A.V.E. (Wide Angle View) camera

12 x zoom  
1/3" CCD  
+5°/-15° tilt  
+/-95° pan  
56° vertical field of view  
76° total vertical field of view  
80° horizontal field of view  
270° total horizontal field of view  
450 (PAL) / 460 (NTSC) horizontal TV lines  
Min. illumination 7 Lux (F1.8)  
Auto or manual focus, brightness and white balance  
Far end camera control  
15 near and far-end camera pre-sets  
Voice-activated camera positioning  
Up to 4 camera daisy chain supports  
VISCAs camera support

## Presentations and Collaboration

Natural Presenter Package including:  
PC Presenter™  
PC SoftPresenter™  
Digital Clarity™  
Duo Video™

Automatic selection of TV 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 and RealPlayer v8 etc.)  
50" (16:9) monitors, (1280 x 768 pixels) for local presentations

## System Management

Total management via embedded web browser, SNMP, Telnet and FTP  
Remote software upload: during a call over all networks, via webserver, and 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

200 number global directory  
100 number local directory  
16 dedicated MultiSite™ entries

## 9 selectable menu languages:

English, French, German, Italian, Japanese, Norwegian, Portuguese, Spanish and Swedish

## Customized boot up logo (jpeg)

## Power

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

All specifications subject to change without notice.

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