



TANDBERG Codec 2500

The TANDBERG Codec 2500 is the integrator's codec of choice. With its standard rack mountable dimensions, this powerful codec is ideal for customized integrations and specialized rooms.



DESIGN FEATURES

- Designed for custom integrations
- 19" rack mountable codec
- All the power and functionality of the TANDBERG 2500 videoconferencing system
- Expandability for future applications

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 presenter simultaneously with either DuoVideo or H.239 on single or dual monitor setup

PERFORMANCE FEATURES

- Choice of network: IP up to 1.5 Mbps, ISDN up to 384 kbps
- Superior video quality incorporating the H.264 standard
- Highest level of standards-based embedded encryption (AES) is included
- Protection against network interruptions with automatic Downsampling and IPLR

BANDWIDTH

H.323 up to 1.5 Mbps
H.320 up to 384 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 kbps and above
Point-to-point only: 60 fields per second @ 336 kbps and above (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 @ 512 kbps + 1 telephone call over ISDN
3 sites @ 768 kbps + 2 telephone calls over ISDN
Point-to-point @ 1.5 Mbps + 3 telephone calls over ISDN
MULTISITE OVER ISDN BRI AND IP
4 sites (1 on ISDN) @ 384 kbps
4 sites (1 on ISDN) @ 320 kbps + 1 telephone call over ISDN
3 sites (1 on ISDN) @ 256 kbps + 2 telephone calls over ISDN
4 sites (2 on ISDN) @ 192 kbps
4 sites (all ISDN) @ 128 kbps
3 sites (all ISDN) @ 128 kbps + 2 telephone calls over ISDN
Point-to-point (ISDN) @ 192 kbps + 3 telephone calls over ISDN
MULTISITE OVER V.35 AND IP
4 sites (1 on V.35) @ 384 kbps

DUOVIDEO / H.239

Available on all networks
Presenter and presentation on single or dual monitor

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 and H.239

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.235 v2&v3, H.241, H.243, H.281, BONDING (ISO 13871), H.320, H.323, H.331, H.239

PRESENTATIONS AND COLLABORATION

Natural Presenter Package including:
PC Presenter
PC SoftPresenter
Digital Clarity
DuoVideo and H.239
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

Searchable server directory* 50.000+ entries supporting LDAP and H.350
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.

* Requires TANDBERG Management Suite 9.0 or newer

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



The TANDBERG Codec 2500 has been tested in accordance with interoperability criteria set by Cisco Systems, Inc. and is compatible with the Cisco IP/VC 35XX product family and Cisco MCM 12.1 (5) XM3. For full disclaimer see TANDBERG product documentation or the following Web site: www.tandberg.net.

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TANDBERG

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TANDBERG WORLD HEADQUARTERS

Phillip Pedersens vei 22
1366 Lysaker, Norway
Tel: +47 67 125 125
Fax: +47 67 125 234
Video: +47 67 117 777
E-mail: tandberg@tandberg.net

200 Park Avenue, Suite 2005
New York, NY U.S.A. 10166
Tel: +1 212 692 6500
Tel: +1 800 538 2884 (toll free in the U.S.)
Fax: +1 212 692 6501
Video: +1 212 692 6535
E-mail: tandberg@tandbergusa.com

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