

Video Telephony with Cisco

TANDBERG and Cisco Systems, Inc. have partnered to bring the first IP-based solutions to market that make video communication as simple as a phone call. While leveraging the existing Cisco IP infrastructure, the solution provides TANDBERG business-quality video systems for the desktop and office that use the same softkey functionality and installation as a Cisco IP telephone. The solution extends the benefits of Cisco CallManager IP call management such as hold, transfer and directory services to visual communication.

The solution includes your choice of TANDBERG video telephony products and the award winning Cisco IP PBX (Cisco CallManager 4.0, or higher) that allows real-time person-to-person video sessions to be added transparently to telephone calls.

Application Features

- Full range of Cisco IP telephony functions, including Directory, Voice Mail and Call Control, as supported by Cisco CallManager
- Softkey design that replicates the IP phone experience
- H.264 support for high quality video over lower bandwidth
- Extensions set-up through CallManager's web administration tools
- PBX functions in call with H.323 endpoints (H.323 systems cannot initiate these services)
- Software upgradeable, to grow with the capabilities of Cisco CallManager
- Supports XML applications which deliver a range of information services to the desktop
- Interoperable with H.323 video communication, using Cisco CallManager
- Interoperable with H.320 (ISDN) video communication, using an H.323/H.320 video gateway and Cisco CallManager

Administrator Benefits

The TANDBERG-Cisco video telephony solution offers affordability and simplified network management:

- Increase ROI on network infrastructure investment
 - Single IP network
 - Shared administration for both IP telephony and video through CallManager
- Reduce IT resources required for video
 - Same configuration for phones and video systems
 - Single dial plan
 - Scheduling not required



Intuitive, easy-to-use
remote control



Same softkey functionality
as Cisco IP telephones

Video Telephony with Cisco



TANDBERG
2000 MXP For Cisco CallManager

Designed for small groups and offices, this mobile, wireless system offers secure, high-quality communications in a compact space. Self-standing, fully-integrated system features 23" widescreen LCD monitor and CD-quality audio.



TANDBERG
1000 MXP For Cisco CallManager

For offices and small meeting rooms. State-of-the-art, compact, fully integrated system that delivers style and performance in equal measure. With this system on their desks, users can place calls quickly and get answers even faster.



TANDBERG
770 MXP For Cisco CallManager

For offices and small meeting rooms. Provides all the essential functionality for visual communications. This compact unit conveniently transforms any standard TV into an interactive meeting place, providing users with an outstanding business tool.



TANDBERG
550 MXP For Cisco CallManager

For offices and small meeting rooms. Provides essential video features for face-to-face meetings with the quality and reliability found in all TANDBERG equipment. A highly portable set-top unit, the TANDBERG 550 offers clear sound, brilliant pictures and a choice of networks.

	2000 MXP FOR CISCO CALLMANAGER	1000 MXP FOR CISCO CALLMANAGER	770 MXP FOR CISCO CALLMANAGER	550 MXP FOR CISCO CALLMANAGER
UNIT DELIVERED COMPLETE WITH:	23" Wide Screen LCD, Wireless remote control, PTZ Camera, microphone, and cables	Wireless remote control, built-in camera, microphone, speakers, cables, 12.1" LCD screen, table-top stand	Wireless remote control, W.A.V.E. II PTZ Camera, microphone and cables	Wireless remote control, W.A.V.E. II PTZ Camera, microphone and cables
LCD SCREEN	Wide Screen LCD (16:9) Wide view angle screen XGA resolution Auto or manual brightness	Wide viewing angle screen XGA resolution Auto or manual brightness	N/A	N/A
VIDEO INPUTS	PTZ Main Camera 1 x DVI-I/SXGA: PC Input: 800 x 600 (@ 60, 72, 75, 85 Hz), 1024 x 768 (@ 60, 70, 75 Hz), 1280 x 1024 @ 60 Hz Extended Display Identification Data (EDID) (local view only)	Built-in main camera 1 x DVI-I/SXGA: PC Input: 800 x 600 (@ 60, 72, 75, 85 Hz), 1024 x 768 (@ 60, 70, 75 Hz), 1280 x 1024 @ 60 Hz Extended Display Identification Data (EDID) (local view only)	Built-in main camera 1 x MiniDin, S-video: auxiliary/document camera 2 x RCA/Phono, composite: document camera/aux 1 x RCA/Phono, composite: VCR 1 x DVI/SXGA: PC Input: 800 x 600 (@ 60, 72, 75, 85 Hz), 1024 x 768 (@ 60, 70, 75 Hz), 1280 x 1024 @ 60 Hz Extended Display Identification Data (EDID) (local view only)	Built-in main camera 1 x RCA/Phono, composite: document camera/auxiliary
VIDEO OUTPUTS	N/A	N/A	1 x MiniDin, S-video: main monitor 1 x RCA/Phono, composite: main monitor or VCR 1 x RCA/Phono, composite: dual monitor or VCR 1 x DVI/XGA: main or second monitor XGA OUTPUT 800 x 600 @ 75 Hz, 1024 x 768 @ 60 Hz, 1280 x 768 (WXGA) @ 60 Hz VESA Monitor Power Management	1 x MiniDin, S-video: main monitor 1 x RCA/Phono, composite: main monitor or VCR 1 x XGA: main monitor XGA OUTPUT 800 x 600 @ 75 Hz, 1024 x 768 @ 60 Hz, 1280 x 768 (WXGA) @ 60 Hz VESA Monitor Power Management
PRIVACY FEATURE	Headphone, 1/8" mini jack	Headset, 2.5 mm mini jack	N/A	N/A
AUDIO INPUTS	2 x microphone, 24V phantom powered, XLR connector 2 x RCA/Phono, Line Level: (L/R)	N/A	2 x microphone, 24V phantom powered, XLR connector 1 x RCA/Phono, Line Level: auxiliary (or VCR Stereo L) 1 x RCA/Phono, Line Level: VCR/DVD (Stereo R)	1 x microphone, 24V phantom powered, XLR connector 1 x RCA/Phono, Line Level: Auxiliary/VCR
AUDIO OUTPUTS	1 x RCA/Phono, S/PDIF (mono/stereo) or Analogue Line Level: main audio or Analogue Stereo L 1 x RCA/Phono, Line Level: VCR or Analogue Stereo R	N/A	1 x RCA/Phono, S/PDIF (mono/stereo) or Analogue Line Level: main audio 1 x RCA/Phono, Line Level: VCR	1 x RCA/Phono, Line Level: Monitor
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	1/4" CCD 752(H) x 582(V) resolution Lens: f=4mm F1:1.2 64° horizontal field of view 49° vertical field of view Minimum illumination 5.0 lux (video output 50%, AGC on) Manual focus	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	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
POWER	Auto-sensing power supply 100-250 VAC, 50-60 Hz 40 watts max.	Auto-sensing power supply 100-250 VAC, 50-60 Hz 45 watts max.	Auto-sensing power supply 100-250 VAC, 50-60 Hz 40 watts max.	Auto-sensing power supply 100-250 VAC, 50-60 Hz 40 watts max.
UNIT DIMENSIONS	Height: 131.2 cm (52 inches) Width: 61.8 cm (24 inches) wide Depth: 39.1 cm (15.3 inches) deep Footprint: 56 cm (22 inches) wide x 39.1 cm (15.3 inches) deep Weight: 24.5 Kg (54 lbs)	Height: 17.7"/45.0 cm Width: 11.8"/30.0 cm Depth: 2.6"/6.6 cm Weight: 9.0 lbs/4.1 kg	Height: 5.1"/13.0 cm Width: 14.9"/38.0 cm Depth: 7.9"/20.0 cm Weight: 5.0 lbs/2.3 kg	Height: 5.1"/13.0 cm Width: 14.9"/38.0 cm Depth: 7.9"/20.0 cm Weight: 5.0 lbs/2.3 kg

Common functionality for all:

BANDWIDTH

Cisco SCCP up to 768 kbps

VIDEO STANDARDS

H.261, H.263, H.263+, H.264¹

VIDEO FEATURES

Picture in Picture (PIP)
Advanced Screen Layouts
Far End Camera Control
Video Input Selection

VIDEO FORMAT

NTSC, PAL

LIVE VIDEO RESOLUTIONS

CIF (352 x 288 pixels)
SIF (352 x 240 pixels)

AUDIO STANDARDS

G.711, G.722, G.729AB

AUDIO FEATURES

Automatic noise reduction
Acoustic echo canceller
Automatic gain control

FRAME RATES

15 frames per second 56–128 kbps
30 frames per second 168–768 kbps

NETWORK FEATURES

Requires CallManager version 4.0 or newer
Network features as supported by Cisco
SCCP and Cisco CallManager
Interoperability with H.323 and H.320
through Cisco CallManager

CALL CONTROL

Includes Cisco SCCP functions such as
call waiting, call forwarding, call transfer
to voice and video IP phones, call hold,
call monitoring, call park, call back, call
join, call pickup

NETWORK INTERFACES

1 x LAN/Ethernet (RJ-45) 10/100 Mbit
1 x PC card slot (PCMCIA) for wireless LAN
1 x USB

WIRELESS LAN SUPPORT

Compliant with IEEE 802.11b, up to 11 Mbit
Support for 64/128 bit encryption (WEP)
Infrastructure or ad-hoc mode

ETHERNET/INTERNET/ INTRANET CONNECTIVITY

TCP/IP, DHCP, ARP, FTP, Telnet, TFTP, DNS
Wired 10/100 Mbit full/half duplex
(manual or auto detect selection)

PRESENTATIONS AND COLLABORATION

Local PC Display (DVI-I, SXGA in)
Advanced Video Layouts
Dual Monitor Emulation (Side by Side)

DIRECTORY SERVICES

Missed calls list
Received calls list
Placed calls list
Shared and personal directory
Advanced directory search
Call History
Directories in Local Languages

OPERATING TEMPERATURE AND HUMIDITY

0° C to 35° C (32° F to 95° F)
ambient temperature
10% to 90% Relative Humidity (RH)

STORAGE AND TRANSPORT TEMPERATURE

-20° C to 60° C (-4° F to 140° F)
at RH 10-90% (non-condensing)

APPROVALS

Directive 73/23/EEC (Low Voltage Directive)
– Standard EN 60950
Directive 89/336/EEC (EMC Directive)
– Standard EN 55022, Class B
– Standard EN 55024
– Standard EN 61000-3-2/-3-3
Directive 1999/5/EEC (R&TTE Directive)
– Standard TBR3
Approved according to UL 60950 and
CAN/CSA C22.2 No. 60950
Complies with FCC15B Class B

*All specifications subject to change
without notice.*

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¹ Feature required CallManager 4.1 or greater

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