



TANDBERG Tactical II

The TANDBERG Tactical II is ideal for field use by federal, state, local and civilian personnel. Its heavy-duty case makes it easy to transport and use for crisis management, mobile offices or anywhere field communications are needed.

DESIGN FEATURES

- Designed for field use
- Fully integrated video system in a heavy-duty watertight case with twin wheels and retractable handle
- Meets most airline carry-on requirements

APPLICATION FEATURES

- Ability to integrate Type 1 encryption devices and compatible with U.S. DoD networks
- Wireless LAN enabled
- View presenter and presentation simultaneously with DuoVideo
- Bandwidth: Up to 768 kbps IP / 384 kbps ISDN

PERFORMANCE FEATURES

- Choice of network: IP, ISDN and other external network
- Bandwidth: Up to 768 kbps IP / 384 kbps ISDN or 384 kbps V.35

LCD MONITOR

Display Type: Active Matrix (a-si TFT) / Flat
Screen Size: 13"
Pixel Resolution: 921,000 dots (480 x 640 VGA)
Aspect Ratio: 4:3
Contrast Ratio: 500:1
Brightness: 430 cd/m²
Viewing Angle (horizontal/vertical): 170 H x 170 V

INTEGRATED CAMERA

Pick-up Element: 1/3" Interline CCD
Resolution: 450 Lines
Light Sensitivity: 3 Lux
Lens: 4.0mm
S/N Ratio: 46dB or more
Auto Gain Control: Yes
Auto White Balance: Yes

W.A.V.E. (WIDE ANGLE VIEW) II CAMERA (OPTIONAL)

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

BANDWIDTH

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

VIDEO

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 (4 INPUTS)

1 x MiniDin, S-video: document camera
1 x RCA/Phono, composite: built-in camera
1 x RCA/Phono, composite: VCR
1 x XGA: PC

VIDEO OUTPUTS (4 OUTPUTS)

1 x MiniDin, S-video: main monitor
1 x RCA/Phono, composite: main monitor or VCR
1 x RCA/Phono, composite: dual monitor
1 x XGA: main or dual monitor

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 or 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

4SIF (704 x 480 pixels), Digital Clarity
Interlaced SIF (352 x 480 pixels) Natural Video
SIF (352 x 240 pixels)

NATIVE PC RESOLUTION:

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) 4 SIF, VGA, SVGA, XGA

AUDIO

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)

1 x microphone, 11V phantom powered, XLR connector,
or 1/4" stereo
1 x internal microphone
1 x RCA/Phono, Line level: auxiliary
1 x RCA/Phono, Line level: VCR

AUDIO OUTPUTS (4 OUTPUTS)

2 x RCA/Phono, main audio and built-in speakers
1 x RCA/Phono, Line level: VCR
1 x 1/4" stereo jack headphones

FRAME RATES

15 frames per second @ 56 - 128 kbps
30 frames per second @ 168 - 768 kbps
Point-to-point only: 60 fields/sec @ 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 Voices Switched
Chair control for host system (ISDN Version)
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
Duo Video, Digital Clarity
MULTISITE AND (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 @ 64-256 kbps + 1 telephone call via ISDN
3 sites @ 64-384 kbps + 2 telephone calls via ISDN
Point-to-point @ 768 kbps + 3 telephone calls via ISDN

MULTISITE OVER ISDN / 3BRI

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

DUO VIDEO

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
Maximum call length timer
Automatic SPID and line number configuration
(National ISDN, GR-2941-CORE)
SoftMux

EMBEDDED ENCRYPTION

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

H.323 NETWORK FEATURES

Differentiated Services (DiffServ)
Resource Reservation Protocol (RSVP)
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 lipsync buffering
Intelligent Packet Loss Recovery (IPLR)

SECURITY FEATURES

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

OPTION 1 (PART # 5000720):

3 x ISDN BRI (RJ-45), S-interface
1 x LAN/Ethernet (RJ-45) 10/100 Mbit
(LAN/DSL/cable modem)

1 x PC card slot (PCMCIA) for wireless LAN

OPTION 2 (PART #: 5000727):

1 x V. 35/RS-449 with Rs -366 dialing, leased line or
data triggered mode

1 x LAN/Ethernet (RJ-45) 10/100 Mbit
(LAN/DSL/cable modem)

1 x PC card slot (PCMCIA) for wireless LAN

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, HTTP
SNMP Enterprise Management
Internal web server
Internal streaming server (streams local and far-end site)
10/100Mbit 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

PRESENTATIONS AND COLLABORATION

Natural Presenter Package including:
PC Presenter
PC Softpresenter
Digital Clarity
Duo Video
T. 120 Microsoft NetMeeting support via RS-232
(9-pin D-sub)
Streaming (compatible with Cisco IP/TV,
Apple Quick Time, RealPlayer, etc.)

CLOSED CAPTIONING/TEXT CHAT

T.140 standards based

SYSTEM MANAGEMENT

Support for the TANDBERG Management Suite
Total management via embedded web browser, SNMP,
Telnet and FTP
Remote software upload: during a call over all networks,
via web-server, and via FTP server
1 x RS-232
Remote control and on-screen menu system

DIRECTORY SERVICES

400 number global directory
100 number local directory including:
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

Tactical II Input Power: 12VDC, 4.5A max.
DC/DC Power Supply: Input 12-32VDC, 15A max. /
Output 12V, 6.0A
AC/DC Power Supply: Input 100-240VDC, 1.5A /
Output 12VDC, 5.5A
Operating Temperature: 0 to 35°C (32 to 95°F)
Ambient Temperature
Humidity: 30% to 85% Relative Humidity
Storage and Transport: -10 to 40°C (14 to 140°F) at
RH 10-90% (non condensing)
Type: Non Classified
Approvals: UL60950, CSA60950, FCC-A, CE

DIMENSIONS

Dimensions (external): L21.7" x W14.1" x H8.9"
Package Dimensions: L24.5" x W16.5" x H18.5"
Weight: 33 lbs. (system only)

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

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