Avizia Tactical

With the Avizia Tactical, high-definition video collaboration is truly possible from anywhere. This rugged and lightweight mobile telepresence product features Cisco's premium codec technology in a portable, briefcase-style form factor. Specifically designed for remote field locations, the Tactical is ideal for use by military, emergency response, and other field-based industries.

Figure 1.   Avizia Tactical

The Tactical Brings Video Collaboration to the Field

Designed to be used in harsh environments, the high impact plastic shell minimizes impact while an aluminum interior frame provides structural strength. The 17.5-inch screen is fully readable in sunlight, and the high-definition (HD) 1080p, 16 x 9 aspect ratio camera provides a quality image of the field user and environment. The unit is based on a Cisco TelePresence System SX20 Quick Set codec (SX20) and supports H.323, and Session Initiation Protocol (SIP) dual stream up to 6 Mbps. You can also set up the Tactical in a mobile telepresence conference room scenario with an external microphone, camera, and monitor. The

SX20 codec supports embedded capability for multipoint support with Cisco TelePresence MultiSite technology, enabling you to add three additional participants to a telepresence call.

Features and Benefits

Design features	- Water-, sand-, impact-, chemical- and corrosion-resistant case providing portability, durability, and functionality - SX20 Quick Set codec featuring HD video and content sharing with full-duplex audio - Embedded 1080p HD camera and integrated speakers and microphone - Sunlight readable, optically bonded, 17.5-inch 720p60 HD display that is 3x stronger than standard screens - Tactile control panel offering simplified system control and a tethered infrared remote control for full system operation - AC and DC power options for system operation - Security hasps (2x) for securing the unit - IP67 (closed)
Application features	- Individual transcoding embedded MultiSite* - HD collaboration with resolutions up to WXGA at full frame rate - High-definition content sharing up to 1080p15
Performance features	- Optimal definition up to 1080p60 - H.323/SIP up to 6 Mbps - Built-in individually transcoded multipoint conferencing offers the ability to add three additional callers - Easy provisioning and self-configuration with Cisco Unified Communications Manager (Cisco UCM), Cisco TelePresence Video Communications Server (VCS), or Cisco Callway * The Tactical takes advantage of the Cisco TelePresence Total Solution approach, including Cisco TelePresence Multiway features, recording and streaming, and firewall traversal services.

Figure 2.   Avizia Tactical in use

Product Specifications

Set delivered complete with:	• Tethered remote control, • Padded shoulder strap • LAN cables • Presentation cable • Secondary camera and display video cables • Power cables • DC-to-DC converter • Attachable I/O protection cover • Accessory pouch
Bandwidth	• H.323 and SIP up to 6 Mbps
Firewall traversal	• Cisco TelePresence Expressway technology • H.460.18 and H.460.19 firewall traversal
Video standards	• H.263, H.263+, and H.264
Video features	• Native 16:9 widescreen • Advanced screen layouts • Intelligent video management • Local self-view
Video inputs (five inputs)	**Embedded 1080p Camera:** • 1/3-inch CMOS sensor • 1.2 aperture range • 63.8° horizontal field of view • 42° vertical field of view • 4-mm focal length • 1080 pixels progressive @ 30 frames per second (fps) • Manual focus • Automatic brightness and white balance **One Secondary Video Input: HDMI, S-Video, or Composite;** **One DVI-I (Analog and Digital)** **Supported Formats:** • 640 x 480 • 720 x 480 • 720 x 576 • 800 x 600 • 848 x 480 • 1024 x 768 • 1152 x 864 • 1280 x 720 • 1280 x 1024 • 1280 x 768 • 1280 x 800 • 1280 x 960 • 1360 x 768

	• 1366 x 768 • 1400 x 1050 • 1440 x 900 • 1680 x 1050 • 1920 x 1080 **Extended Display Identification Data (EDID):** • PAL/NTSC for standard-definition inputs
Video outputs (two outputs)	**Embedded 720p E-LED Monitor:** • Optically bonded for strength • 17.5-in. diagonal dimension • 1280 x 768 maximum resolution • 16 x 9 aspect ratio • Brightness: 700 cd/m2 • Contrast 700:1 • Response time: 16 ms • No. of colors: 8 bit-16.7 M • Viewing angle: 160 degrees (horizontal), 140 degrees (vertical) **One HDMI Output Supported Formats:** • 1920 x 1080 @ 60 fps (1080p60) • 1920 x 1080 @ 50 fps (1080p50) • 1280 x 720 @ 60 fps (720p60) • 1280 x 720 @ 50 fps (720p50) • 1366 x 768 @ 60 fps (WXGA) • 1360 x 768 @ 60 fps(WXGA) • 1280 x 768 @ 60 fps (WXGA) **VESA Monitor Power Management** **EDID** **Live Video Resolutions (Encode and Decode):** • 176 x 144 @ 30 or 60 fps (QCIF) (decode only) • 352 x 288 @ 30 or 60 fps (CIF) • 512 x 288 @ 30 or 60 fps (w288p) • 576 x 448 @ 30 or 60 fps (448p) • 768 x 448 @ 30 or 60 fps (w448p) • 704 x 576 @ 30 or 60 fps (4CIF) • 1024 x 576 @ 30 or 60 fps (w576p) • 640 x 480 @ 30 or 60 fps (VGA) • 800 x 600 @ 30 or 60 fps (SVGA) • 1024 x 768 @ 30 or 60 fps (XGA) • 1280 x 768 @ 30 or 60 fps (WXGA) • 1280 x 720 @ 30 or 60 fps (HD720p) • 1920 x 1080 @ 30 or 60 fps (HD1080p)
Audio standards	• G.711, G.722, G.722.1, and 64-kbps MPEG4 AAC-LD

Audio features	• Two acoustic echo cancellers • Automatic Gain Control (AGC) • Automatic noise reduction • Active lip synchronization
Audio inputs (three inputs)	• 1 microphone, 4-pin mini-jack, and 3.5-mm mini-jack • 1 microphone, 3-pin headset, and 3.5-mm mini-jack • 1 mini-jack for line in (computer stereo)
Audio outputs (two outputs)	• 2 waterproof 10W stereo speakers • 1 mini-jack headphone out (stereo)
Dual stream	• H.239 (H.323) dual stream • BFCP (SIP) dual stream • Support for resolutions up to 1080p
Multipoint support	• Four-way embedded SIP/H.323 multipoint reference MultiSite • Cisco TelePresence Multiway support (requires Cisco TelePresence Video Communication Server [Cisco VCS] and Cisco TelePresence MCU) • Ability to natively join multipoint conferences hosted on Cisco Telepresence Management Switch (Cisco TMS)
Multisite features (embedded multipoint switch)	• Four-way SIP/H.323 MultiSite; resolution up to 576p30 • Full individual audio and video transcoding • Individual layouts in multisite continuous presence • H.323 SIP, and voice over IP (VoIP) in the same conference • Support for Presentation (H.239/Binary Floor Control Protocol [BFCP]) from any participant at resolutions up to 1080p15/WUXGA • Best impression (automatic continuous presence layouts) • H.264, encryption, and dual stream from any site • IP downspeeding • Dial in and dial out • Conference rates up to 6 Mbps
Protocols	• H.323 • SIP
Embedded encryption	• H.323 and SIP point-to-point • Standards-based: H.235v3 and Advanced Encryption Standard (AES) • Automatic key generation and exchange • Support in dual stream

IP network features	- Domain Name System (DNS) lookup for service configuration - Differentiated Services (DiffServ) (quality of service [QoS]) - IP-adaptive bandwidth management (including flow control) - Auto-gatekeeper discovery - Dynamic playout and lip-sync buffering - H.245 dual-tone multifrequency (DTMF) tones in H.323 - Date and time support using Network Time Protocol (NTP) - Packet loss-based downspeeding - Uniform Resource Identifier (URI) dialing - TCP/IP - Dynamic Host Configuration Protocol (DHCP) 802.1x network authentication 802.1Q Virtual LAN 802.1p (QoS and class of service [CoS]) - ClearPath
Cisco Unified Communications Manager (requires Cisco Unified Communications Manager Version 8.6 or later)	- Native registration with Cisco Unified Communications Manager - Basic Cisco Unified Communications Manager provisioning - Firmware upgrade from Cisco Unified Communications Manager - Cisco Discovery Protocol and DHCP option 150 support - Basic telephony features such as hold, resume, and transfer and corporate directory lookup
IPv6 network support	- Single call stack support for both H323 and SIP - Dual-stack IPv4 and IPv6 for DHCP, Secure Shell (SSH) Protocol, HTTP, Secure HTTP (HTTPS), DNS, and DiffServ - Support for both static and autoconfiguration (stateless address auto configuration)
Security features	- Management using HTTPS and SSH - IP administration password - Menu administration password - Disable IP services - Network settings protection
Network interfaces	One LAN and Ethernet (RJ-45) 10/100/1000 Mb
System management	- Support for the Cisco TelePresence Management Suite - Total management using embedded Simple Network Management Protocol (SNMP), Telnet, SSH, XML, and Simple Object Access Protocol (SOAP) - Remote software upload using web server, secure copy (SCP), HTTP, and HTTPS - Cisco TelePresence Touch (optional) - Remote control and on-screen menu system

Directory services	• Support for local directories (My Contacts) • Corporate directory • Unlimited entries using server directory supporting Lightweight Directory Access Protocol (LDAP) and H.350 (requires Cisco TelePresence Management Suite) • Unlimited number for corporate directory (through Cisco TelePresence Management Suite) • Received calls with date and time • Placed calls with date and time • Missed calls with date and time
Power	**AC Power** • Auto-sensing power supply • 100-240 VAC, 50-60 Hz • Maximum 80 W power consumption **DC Power** • 12-32 VDC through DC-DC convertor • DC high-voltage protection
Operating temperature and humidity	• 0 to 35°C (32 to 95°F) ambient temperature • 10 to 90% relative humidity (RH)
Storage and transport temperature	• -20 to 60°C (-4 to 140°F) at RH 10 to 90% (noncondensing)
External dimensions	• Width: 19.2 inches (48.77 cm) • Height: 7.3 inches (18.54 cm) • Depth: 15.2 inches (38.6 cm) • Weight: 26.6 pounds (12.1 kg)
Regulatory compliance	• Directive 2006/95/EC (Low-Voltage Directive) - Standard IEC/EN 60950-1 • Directive 2004/108/EC (EMC Directive) - Standard EN 55022, Class A - Standard EN 55024 - Standard EN 61000-3-2/-3-3 • Approved according to UL 60950-1 and CAN/CSA-C22.2 No. 60950-1-07 • Complies with FCC CFR 47 Part 15 Class A • Complies with C-Tick AS/NZS CISPR 22:2009 Class A • Complies with TAA (Trade Agreements Act) • This product contains technology subject to US EAR (Export Administration Regulations) and is classified as ECCN 5A002.A.1 (unrestricted to most destinations)

Ordering Information

See the table below for product ordering information. To get a quote or place an order, please contact one of our partners found on http://aviziatech.com/howtobuy.html.

SKU	Description
AVZ-TAC	Tactical (includes integrated SX20 codec, remote control, and dual display SW option)
Software options	
AVZ-TAC-SW-MS	Tactical Multi-site option (make multiple calls from the same codec)
AVZ-TAC-SW-PR	Tactical Premium Resolution option (send 1080p video during a video call)