

Avaya Scopia® XT7100 Room System

Exceptional Experience, Extreme Efficiency

Highlights

- Exceptional Experience
- Extreme Efficiency
- Intuitive and Easy-to-Use
- Recording and Multi-party Conferencing
- All-in-one Solution



The Avaya Scopia® XT7100 is the flagship offering in the Scopia XT series of video conferencing room systems. The XT7100 incorporates H.265 High Efficiency Video Coding (HEVC), one of the industries most advanced video compression technologies. H.265 HEVC doubles the video compression efficiency of H.264 High Profile, enabling full HD 1080p 60fps video with half the bandwidth required¹, delivering an exceptional experience with a total lower cost of ownership.

The Scopia XT7100 delivers one of the best conferencing experiences available from a room system. With powerful processing, the system supports dual 1080p 60fps live video and content channels, H.265 HEVC, H.264 High Profile, along with Scalable Video Coding (SVC) for high quality even on low-bandwidth, unmanaged networks such as the Internet. The PTZ camera offers 10x optical zoom (40x with digital) to view details and includes wide-angle capability for group participation. Optional embedded multi-party conferencing for up to nine participants is available including the ability to engage with participants via desktop and mobile devices.

The advanced audio system offers CD-clarity sound along with a digital beam forming microphone pod that isolates meeting speakers from background noise. Built for user simplicity, intuitive Apple iPad control puts the power of this system for collaboration and engagement at the user's fingertips.





With more than 100 years as a leader in communications, Avaya can help your company maximize productivity with the communications solutions specific to the needs of your workforce.

Exceptional Experience

The Avaya Scopia® XT7100 sets the standard for an exceptional conferencing experience, helping users feel like they are together in the same room with remote participants, where distance has disappeared. Simultaneous HD 1080p/60fps for live video and content and CD-quality, 20 kHz audio transform a simple video meeting into a true collaborative session as if local and remote participants are working together at the same table.

Extreme Efficiency

Incorporating a new design with robust processing, the Scopia XT7100 supports H.265 HEVC providing up to a 50% reduction in bandwidth required over H.264 High Profile. This extreme bandwidth efficiency enables the Scopia XT7100 to deliver impressive performance in network applications and conditions where bandwidth is at a premium. With bandwidth the same, the XT7100 delivers significantly higher performance than systems only supporting H.264 High Profile or more common H.264 AVC technology.

Intuitive and Easy-to-Use

Businesses don't have the luxury to dedicate specific support personnel to place calls or manage meetings, but maximum return on investment requires high adoption and use. The Scopia XT7100 has been designed for the typical end user to initiate calls and control meetings with little or no training required. With Microsoft Exchange calendar support, users can join meetings directly from the integrated system calendar. The advanced on-screen participants list gives leaders full meeting moderation, and for enhanced capabilities, the system is enabled for control via an Apple iPad device.

Recording and Multi-party Conferencing

The power of meeting recording and multi-party conferencing is available for the XT7100 enabling team engagement far beyond the basics. Recording, and turning your real-time meeting into a valuable stored asset, is an important capability for note taking, meeting review, fiduciary, and educational needs. Included with the XT7100, this capability requires only a USB disk or key. Optional built-in support for continuous presence multi-party calls with up to nine participants requires no external bridging capabilities or services to host multipoint meetings.

All-in-one Solution

The Scopia XT7100 is offered as a unique all-in-one video conferencing solution combining its room system capabilities with embedded nine-way multi-party conferencing, Scopia Desktop and Mobile for remote participants and bring your own device (BYOD) initiatives, along with firewall traversal into an easily deployed all-in-one video conferencing and collaboration solution. These team engagement capabilities are packaged in a compact and modern industrial design to complement any conference room.

Scopia XT7100 Specifications

Communications

- IP: H.323, SIP (RFC 3261)
- ISDN² supported through Scopia Gateway
- Bit rate: H.323, SIP: up to 6/12² Mbps; H.320: up to 2 Mbps
- MCU compatibility: H.243, H.231

Video

- 2 simultaneous 1080p60 channels: camera + auxiliary camera² or camera + content
- H.263, H.263+, H.263++, H.264, H.264 High Profile, H.265 HEVC, SVC
- Dual: H.239 (H.323); BFCP (SIP)
- **HDMI input formats**
1920 x 1080p @ 25, 30, 50, 60fps
1280 x 720p @ 25, 30, 50, 60fps
720 x 576p @ 50fps
720 x 480p @ 60fps
640 x 480p @ 60fps
- **Live video encoding formats**
1920 x 1080p @ 25, 30, 50, 60fps
1280 x 720p @ 25, 30, 50, 60fps
1024 x 576p @ 25, 30fps: w576p
848 x 480p @ 25, 30fps: w480p
768 x 448p @ 25, 30fps: w448p
704 x 576p @ 25, 30fps: 4CIF
704 x 480p @ 25, 30fps: 4SIF
624 x 352p @ 25, 30fps: w352p
576 x 336p @ 25, 30fps
512 x 288p @ 25, 30fps: wCIF
416 x 240p @ 25, 30fps: w240p
400 x 224p @ 25, 30fps
352 x 288p @ 25, 30fps: CIF
352 x 240p @ 25, 30fps: SIF
- **DVI input formats**
1920 x 1080p @ 60fps
1600 x 900p @ 60fps (digital only)
1440 x 900p @ 60fps: WSXGA
1280 x 1024p @ 60, 75fps: SXGA
1280 x 960p @ 60, 85fps: SXGA
1280 x 768p @ 60fps: WXGA
1280 x 800p @ 60fps: WXGA

1280 x 720p @ 60fps
1024 x 768p @ 60, 70, 75 fps: XGA
800 x 600p @ 60, 72, 75fps: SVGA
640 x 480p @ 72, 75fps: VGA

- **PC content encoding formats:**
Up to 1080p @ 60fps
- **HDMI output formats**
1920 x 1080 @ 25, 30, 50, 60fps
1280 x 720 @ 50, 60fps

Camera

- Resolution: 1080p60fps
- Presets: 122
- Field of View (H): 8° - 70°
- PAN / Tilt: ± 100° / ± 25°
- Zoom: 10x optical, 4x digital, 40x total
- Far End Control: H.224, H.281

Recording

- Recording on USB key/disk (with dual display systems, both displays show the same images while recording; uses 2 ports of the 9 port MCU, no impact on 4 port MCU), not available with encrypted call
- USB disk formats: FAT32, EXT2, EXT3, EXT4
- Recording formats: MP4 file

Audio

- Acoustic echo cancellation
- Adaptive post filtering
- Audio error concealment
- Automatic Gain Control (AGC)
- Automatic noise suppression
- **Frequency response:**
G.711: 300 - 3,400 Hz
G.728: 50 - 3,400 Hz²
G.729A: 50 - 3,400 Hz²
G.722, G.722.1: 50 - 7,000 Hz
G.722.1 Annex C: 50 - 14,000 Hz
AAC-LD: 50 - 14,000 Hz
AAC-LC: 50 - 14,000 Hz
G.719: 50 - 20,000 Hz

Microphone

- 3-way Premium Microphone Array Pod
- 360° range
- Frequency response: 50 - 22,000 Hz
- Mute button
- Up to 2 cascaded pods

Audio/Video Interfaces

- **Video inputs:**
2 x HDMI
1 x DVI-I
3 x Additional HDMI via switcher²
- **Video outputs:**
2 x HDMI for dual display
- **Audio inputs:**
2 x HDMI
1 x Microphone Array Pod (RJ-11)
1 x 3.5 mm (1/8") line in jack for audio source (analog / digital with mini-TOSLINK adapter)
3 x Additional HDMI via switcher²
- **Audio outputs:**
2 x HDMI
1 x 3.5 mm (1/8") line out jack (analog / digital with mini-TOSLINK adapter)

USB Ports

- 1 x USB2
- 1 x USB3
- Supports recording, firmware upgrade, USB to serial adapter for control, limited headsets and cameras (USB2 camera support)

Network Features

- IPv4 and IPv6 simultaneous support
- Auto Gatekeeper discovery
- QoS support: IP Precedence, IP Type of Service (ToS), Differentiated Services (diffserv)
- Avaya NetSense bandwidth adaptation for high quality over unmanaged networks
- DTMF tones: H.245, RFC2833
- SNTP date and time synchronization
- **IP adaptive packet management**
Flow control
Packet Loss based down-speeding
Packet Loss recovery policies

Network Protocols

- DHCP, DNS, HTTP, HTTPS, RTP/RTCP, SNTP, STUN, TCP/IP, TELNET, TFTP, 802.1Q, 802.1X

Network Interfaces

- 2 x 10/100/1000 Base-T full-duplex (RJ-45)

Scopia XT7100 Options

Additional Premium Camera
Additional 3-way Premium Microphone Array Pod
Advanced Camera, 20x Optical Zoom, Ceiling Mount, 1080p30 ⁴
4 HD Port Camera / Source Switch
4/9 Port Embedded 1080p30 MCU
Scopia Desktop and Mobile Support
Extended IP Bit Rate: Multipoint = 12 Mbps, P2P = 10/8 Mbps (SIP/H.323)
Advanced Audio Codec Pack (G.728 and G.729A)
Codec Wall Mount
Camera Wall Mount

Support Services

Avaya offers a full set of services to help maximize a video investment. Strategic and technical consulting along with deployment and customization services help ensure that video collaboration rollouts are successful and aligned to business requirements.

Avaya Video Support Services maximizes up time with software updates, upgrades, remote maintenance and expert repairs.

Video Managed Services enable organizations to enjoy a predictable, high-quality video collaboration experience that drives optimal levels of user adoption on any size deployment.

About Avaya

Avaya is a leading, global provider of customer and team engagement solutions and services available in a variety of flexible on-premise and cloud deployment options. Avaya's fabric-based networking solutions help simplify and accelerate the deployment of business critical applications and services. For more information, please visit www.avaya.com.

Scopia XT7100 Specifications (cont.)

Firewall Traversal

- Auto NAT discovery HTTP and STUN
- H.460.18, H.460.19
- "Keep Alive" packet time configurable

Auxiliary Camera Interface

- VISCA RS232 for PTZ control (Mini-DIN 8-pin)

User Interface

- 24 language on-screen user interface
- Infrared remote control
- API for endpoint control
- Scopia Control application for Apple iPad device
- Microsoft Exchange calendar integration

Directory Service & Address Book

- LDAP Client (H.350)
- Receive global address book from LDAP Server including Scopia Management

Multipoint Control Unit²

- H.323 and SIP mixed mode
- 4 / 9 HD continuous presence participants
- Support for Scopia Desktop and Mobile²
- Dial-in / Dial-out capabilities
- Encryption for up to 4 connected participants³
- Automatic continuous presence layouts
- Dual-video from any site

Security Features

- Embedded encryption³
- H.323 security per H.235v3/Annex D
- SIP security per SRTP and TLS, enciphering up to AES-256
- SIP "Digest" authentication (MD5)
- RTP media enciphering with AES-128
- Public-Key including Diffie-Hellman (1024 bits), RSA (up to 4096 bits)
- Cryptographic hash (up to SHA-512)
- Web access via HTTPS
- API access via SSH
- Selective enable / disable of IP features

Web Management

- Configuration, call, diagnostics and management functions are accessible with Internet Explorer 8.0+, Firefox 3.6+, Safari 5.0+, Chrome 11.0+, Opera 11+

Power Supply

- 100-240 VAC, 50-60 Hz, 2 A Max.

Physical Characteristics

• Horizontal / Vertical Mounting:

W: 29.0 cm (11.4")
D: 16.5 cm (6.5")
H: 4.0 cm (1.6")
Weight: 1.5 kg (3.5 lb)

• Camera / Optional Camera

W: 25.0 cm (9.8")
H: 15.2 cm (6.0")
D: 13.5 cm (5.3")
Weight: 1.6 kg (3.5 lb)

• Microphone Pod:

W: 13.4 cm (5.3")
Weight: 0.45 kg (1.0 lb)

¹ Report on HEVC compression performance verification testing - Joint Collaborative Team on Video Coding (JCT-VC) of ITU-T SG 16 WP 3 and ISO/IEC JTC 1/SC 29/WG 11

² Optional.

³ Encryption is subject to local regulations and in some countries is restricted or limited. Please contact your Avaya representative for details.

⁴ Daisy chaining of different camera models is not supported. If Advanced Camera is connected as a second camera input and first camera is Premium, Advanced must be controlled with its own camera remote control.

Learn More

To learn more and to obtain additional information such as white papers and case studies about the Avaya Scopia XT7100 Room System, please contact your Avaya Account Manager or Authorized Partner or visit us at www.avaya.com.

