AVAYA

AVAYA SCOPIA® XT7100 ROOM SYSTEM

Exceptional Experience, Extreme Efficiency

HIGHLIGHTS

Exceptional Experience

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Extreme Efficiency

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Intuitive, Easy-to-Use

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Recording and Multi-party Conferencing

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All-in-one, Easy to Deploy

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 required[1], 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, along with 4K display and content support. Available PTZ cameras offer up to 20x optical zoom (12x digital) to view details and include wide-angle capability for group participation. A digital beam forming microphone array pod is available that isolates meeting speakers from background noise, while CD-clarity stereo audio brings added presence to meetings. Optional embedded 9-way multi-party conferencing including the ability to engage with participants via desktop and mobile devices makes it easy to host meetings with remote participants.

Built for user simplicity, intuitive Apple iPad and iPhone control puts the power of the XT7100 at the user's fingertips. Meetings can be easily recorded directly to a USB drive. And with Avaya Screen Link, users can wirelessly present content from their laptops, while Avaya Mobile Link enables seamless meeting transitions with your Avaya Equinox™ mobile UC app.

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. 4K display support, simultaneous HD 1080p/60fps for live video and content along with CD-clarity stereo 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 powerful and robust processing, the Scopia XT7100 supports H.265 High Efficiency Video Coding (HEVC) providing up to a 50% reduction in bandwidth required over H.264 High Profile. This extreme bandwidth efficiency enables the 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, Easy-to-Use

The Scopia XT7100 delivers intuitive meeting control with little or no training required. With Microsoft Exchange calendar support, users can join meetings

directly from the integrated calendar. The on-screen participant list gives leaders full meeting moderation, and with Avaya Screen Link, users can wirelessly present content from their laptops. Avaya Mobile Link enables seamless meeting transitions with your Avaya Equinox mobile application, while optional Apple iPad or iPhone control makes the system even easier to use.

Recording and Multi-party Conferencing

The power of meeting recording and multi-party conferencing is available 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 Scopia XT7100, this capability requires only a USB drive. Optional built-in support for continuous presence multi-party calls requires no external bridging capabilities or services.

All-in-one, Easy to Deploy

The Scopia XT7100 is offered as a unique all-in-one video meeting solution combining its room system capabilities with embedded 9-way multi-party conferencing, along with desktop and mobile connectivity for remote participants including firewall traversal. Cascading to additional Scopia XT systems enables meetings with up to 65 remote participants. The system can also be automatically configured with minimal user intervention. A provisioning code entered at startup configures the XT7100 with a profile created through Avaya Equinox, enabling deployment without technical resources.

Available Cameras

Model	Advanced Camera 20x 1080p30	Premium Camera 10x 1080p60	Deluxe Camera 12x 1080p60	Flex Camera 5x 1080p60
Video Formats	1080p30/25 720p60/50/30/25	1080p60/50/30/25 720p60/50/30/25	1080p60/50/30/25 720p60/50/30/25	1080p60/50/30/25 720p60/50/30/25
Focal Length	F=4.7–94mm, f/1.6-3.5	F=3.4–33.9mm, f/1.8–2.1	F=3.9–47.3mm, f/1.8–2.8	F=4–20mm, f/2.8–3.9
Min. Object Distance (wide)	1cm (0.4'')	10cm (4'')	50cm (20'')	30cm (12'')
Min. Illumination	1.7 lx (f/1.6, 50 IRE)	1.5 lx (f/1.8, 50 IRE)	1.6 lx (f/1.8, 50 IRE)	1.3 lx (f/2.8, 50 IRE)
Field of View: H / V	55° / 33°	70° / 40°	74° / 44°	70° / 40°
Image Device	Exmor CMOS 1/2.8''	CMOS 1/3"	Exmor CMOS 1/2.8''	Exmor CMOS 1/2.8''
Optical / Digital Zoom	20x / 12x	10x / 4x	12x / 4x	5x / 8x
Pan, Tilt Range	+/-170°, +90°/-20°	+/-100°, +/-25°	+/-100°, +/-25°	+/-100°, +/-25°
Presets	122 (for all connected cameras, directly on XT system)			
Far End Camera Control	Through XT codec (H.224, H.281)			
Serial Control	Serial In – Out	Serial In – Out	Serial In – Out	Serial In
IR Repeater as TTL Signal	On pin 7 Serial In			
Ceiling Mount	Supported	Not Supported	Supported	Supported
Camera Mount	Includes kit for ceiling mount	Mount available for wall and display mounting	Mount available for wall and display mounting	Mount available for wall and display mounting
Weight	1.5kg (3.4lbs)	1.5kg (3.4lbs)	1.3kg (2.9lbs)	1.3kg (2.9lbs)
Dimensions w/h/d	14.5 x 16.4 x 16.4cm (5.7 x 6.4 x 6.4")	25.0 x 15.2 x 13.5cm (9.8 x 6.0 x 5.3")	26.8 x 15.6 x 12.4cm (10.6 x 6.1 x 4.9")	26.8 x 15.6 x 12.3cm (10.6 x 6.1 x 4.8")
Current Consumption	0.92A max.	2.2A max.	1A max.	1A max.

Available Microphones

Model	Scopia XT 1-way POD	Scopia XT Premium 3-way POD
Type	1 x condenser half cardioid	3 x condenser half cardioid
Audio Channels	1x mono	3x mono or 1x stereo
Frequency Response	30–20,000Hz	50–22,000Hz
Coverage	3m (9.8') radius cardioid / 180°	6m (19.7') diameter omnidirectional / 360°
Output Impedance / Configuration	250 ohm / Balanced	Digital / Custom interface
Sensitivity	-53dB +/-3dB	-37dB +/-3dB
Maximum SPL	130dB	110dB
Signal to Noise Ratio	>60dB	>68dB
Mute Switch	–	Yes
Cable Length and Connector Type	6m (19.7'), stereo jack 3.5mm (1/8") to Mini XLR 3 pole female	6m (19.7'), RJ11 6 pole plug
Weight	380g (0.8lb)	450g (1.0lb)
Dimensions w/h/d	12.0 x 2.0 x 11.0cm (4.7 x 0.8 x 4.3")	13.4cm (5.3") diameter x 2.5cm (1.0") h
Power Requirements	9–52V Phantom, 1.0mA max.	12V, 70mA max.

Scopia XT7100 Specifications

Communications
- IP: H.323, SIP (RFC 3261)
- Bit rate: H.323, SIP: up to 6/12[2]Mbps
- MCU compatibility: H.243, H.231
- XMPP Presence Server support

Video
- 2 simultaneous 1080p60 channels: camera + auxiliary camera or camera + content
- Content capture on DVI or HDMI[3, 4]
- H.263, H.263+, H.263++, H.264, H.264 High Profile, H.265 HEVC, SVC
- Dual: H.239 (H.323); BFCP (SIP)
- Avaya Multi-Stream Switching (MSS) video[4]

- **HDMI input formats**
  3840 x 2160 @ 24, 25, 30fps (YCbCr 4:2:2)[3, 4]
  1920 x 1080p @ 25, 30, 50, 60fps
  1600 x 900p @ 60fps (digital only)[3,4]
  1440 x 900p @ 60fps: WSXGA[3,4]
  1400 x 1050 @ 60fps[3,4]
  1280 x 1024p @ 60fps: SXGA[3,4]
  1280 x 960p @ 60fps: SXGA[3,4]
  1280 x 768p @ 60fps: WXGA[3,4]
  1280 x 800p @ 60fps: WXGA[3,4]
  1280 x 720p @ 25, 30, 50, 60fps
  1024 x 768p @ 60fps: XGA[3,4]
  800 x 600p @ 60fps: SVGA[3,4]
  720 x 576p @ 50fps
  720 x 480p @ 60fps
  640 x 480p @ 60, 72, 75fps: VGA[3,4]

- **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
  1400 x 1050 @ 60fps
  1280 x 1024p @ 60, 75fps: SXGA
  1280 x 1024 @ 60fps
  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, 75fps: 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**
  3840 x 2160 @ 25, 30fps (on HD1)
  1920 x 1080 @ 25, 30, 50, 60fps
  1280 x 720 @ 50, 60fps

Content Sharing / Web Collaboration
- Dual video: H.239 (H.323); BFCP (SIP)
- Avaya Equinox native web collaboration
- Avaya Equinox chat and web collaboration pointer tool via Scopia Control[4]

Recording
- Recording on USB drive (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)
- USB drive formats: FAT32, EXT2, EXT3, EXT4
- Recording formats: MP4 file
- Time Watermark on recorded files[4]
- Digital Signature for recorded files[4]

Audio
- Stereo audio with Premium 3-way POD
- Acoustic echo cancellation
- Adaptive post filtering
- Audio error concealment
- Automatic Gain Control (AGC)
- Automatic noise suppression
- **Frequency response:**
  G.711: 300–3,400Hz
  G.728: 50–3,400Hz[2]
  G.729A: 50–3,400Hz[2]
  G.722, G.722.1: 50–7,000Hz
  G.722.1 Annex C: 50–14,000Hz
  AAC-LD: 50–14,000Hz
  AAC-LC: 50–14,000Hz
  G.719: 50–20,000Hz
  Opus: 50–20,000Hz[4]

Audio/Video Interfaces
- **Video inputs:**
  2 x HDMI
  1 x DVI-I
  3 x Additional HDMI via switcher[2]
- **Video outputs:**
  2 x HDMI for dual display
- **Audio inputs:**
  2 x HDMI
  1 x Microphone Array Pod (RJ11)
  1 x 3.5mm (1/8") line in jack for audio source (analog / digital with mini-TOSLINK adapter)
  3 x Additional HDMI via switcher[2]
- **Audio outputs:**
  2 x HDMI
  1 x 3.5 mm (1/8") line out jack (analog / digital with mini-TOSLINK adapter)

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

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

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)

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

User Interface
- 24 language on-screen user interface
- Infrared remote control
- API for endpoint control
- Scopia Control application for Apple iPad and iPhone
- Microsoft Exchange calendar integration
- Bitmaps and logo customization[2]

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 support services maximizes up time with software updates, upgrades, remote maintenance and expert repairs.

About Avaya

Avaya enables the mission-critical, real-time applications of the world's most important operations. As the global leader in delivering superior communications experiences, Avaya provides the most complete portfolio of software and services for contact center and unified communications—offered on premises, in the cloud, or a hybrid. Today's digital world requires communications enablement, and no other company is better positioned to do this than Avaya.

Directory Service & Address Book
- LDAP Client (H.350)
- Receive global address book from LDAP Server including Avaya Equinox

Multipoint Control Unit[2]
- H.323 and SIP mixed mode
- 4 / 9 HD continuous presence participants
- Desktop and Mobile Client support[2]
- Dial-in / Dial-out capabilities
- Encryption for up to 4 connected participants[3]
- Automatic continuous presence layouts
- Dual-video from any site
- Lecturer mode on system hosting the conference
- Supports 5 additional audio calls in MCU4[4]
- XT MCU cascading (up to 65 participants in conference with 8 MCU slaves)[4]

Security Features
- Embedded encryption[5]
- H.323 security per H.235v3/Annex D
- SIP security per SRTP and TLS 1.2, enciphering up to AES-256
- SIP "Digest" authentication (MD5)
- RTP media enciphering with AES-256
- Public-Key including Diffie-Hellman (2048 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
- White list support
- Avaya Enhanced Access Security Gateway (EASG) support[4]

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

Physical Characteristics
- **Horizontal / Vertical Mounting:**
  W: 29.0cm (11.4'')
  D: 16.5cm (6.5'')
  H: 4.0cm (1.6'')
  Weight: 1.5kg (3.5lb)

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[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] Only on HD1.

[4] With version 9.1.

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

SCOPIA XT7100 OPTIONS

- 4/9 Port Embedded 1080p30 MCU
- Desktop and Mobile Client Support
- Extended IP Bit Rate: Multipoint = 12Mbps, P2P = 10/8Mbps (SIP/H.323)
- Advanced Audio Codec Pack (G.728 and G.729A)
- Full Brand Customization
- 4 HD Port Camera / Source Switch
- Codec Wall Mount
- Camera Wall Mount
- Carts supporting one or two displays

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**.

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