AVAYA Scopia
Room Systems

XT4300
XT5000
XT7100

Kommunikations- und Sicherheitstechnik

AVAYA Scopia XT-Series

Video communication permits a more intense, more efficient, and more resource-conserving collaboration. The fast and flexible option to not just hear, but also to see, the other participants will effectively enhance the way you communicate. In addition to hearing the voices of the other participants, you will be able to see their facial expressions, elevating the communication level to a more intense and possibly more trust-based level.

This has resulted in high expectations among companies regarding an optimal video conferencing technology setup. The focus is on so-called room systems that are particularly well suited for larger conference rooms with many participants. Room systems from AVAYA provide video conferencing endpoints with an amazing performance that may be deployed for conferences between two endpoints or for multi-point conferences. All Solutions of the Scopia XT-series feature two simultaneous video channels for video communications and simultaneous document presentation with 1080p and 60fps (frames per second) and a High Profile system for a high-resolution and exceptional image quality of the video or data transmission.

The AVAYA Scopia XT4300 Room System has been developed specifically for small and medium-sized conference rooms, and customers who do not need all the functionality of larger Scopia-Solutions. Nevertheless, the Scopia XT4300 has an impressive performance and functionality at an outstanding price-performance ratio and allows a high quality Full HD video collaboration.

AVAYA Scopia XT5000 allows users an exceptional conference experience: Simultaneous HD video channels for live video and content with 1080p / 60fps and voice transmission in CD-quality offers an outstanding and exceptional experience during a videoconference. The AVAYA Scopia XT5000 is a very promising and powerful video conferencing solution for small and midsize businesses. The Avaya Radvision Scopia XT5000 Room System 2012 has been awarded by the Frost & Sullivan New Product Innovation Award and the Pilot House Award 2012!

The AVAYA Scopia XT7100 Room System is the top product of the Scopia XT-series and offers one of the best video conferencing experiences that are possible with a room system. The PTZ camera with tenfold optical zoom (40x digital) and wide-angel function makes every detail visible during a conference. The modern audio system provides a clear sound in CD quality and a digital microphone pod with beam forming function, that isolate possible background noises from speech contributions.

The intuitive operation of the user interface of the AVAYA Scopia XT-series needs no longer training periods. The users are generally from the beginning in a position to operate the system without difficulty. The modern and space-saving design also enables easy integration into existing spatial structures.

If yo have any further questions, please contact us. We advise you gladly.

Highlights

- Efficient Full HD Performance

- Outstanding Value

- Intuitive and Easy-to-Use

- Embedded Multi-party Conferencing

- All-in-one Solution

Avaya Scopia® XT4300 Room System

Cost-Effective HD Video Collaboration

The Avaya Scopia® XT4300 offers outstanding value and cost-effective full HD video collaboration specifically designed for the needs of small and mid-size conference rooms as well as users that don't require all the features offered in Scopia advanced room system solutions. The Scopia XT4300 system is incredibly powerful and includes many features often found with costly upgrades in other vendor offerings.

The Scopia XT4300 is well equipped and includes dual HD 1080p/60fps live video and content, HD audio, H.264 High Profile and Scalable Video Coding (SVC), along with a wide-angle PTZ camera. A range of affordable options is available including an embedded four participant MCU delivering continuous presence multi-party conferencing, Scopia Desktop and Mobile collaboration, dual display support, and control via an Apple iPad device for enhanced meeting management. The Scopia XT4300 is a natural fit for today's businesses with a user interface built for simplicity and a modern design to complement any conference room.

deployment. A range of affordable options to enhance the system is also available.

Intuitive and Easy-to-Use

The Scopia XT4300 has been designed with the end user in mind. It delivers instant, intuitive and effective meeting control 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 to further extend its user functionality, the system is available with optional control via an Apple iPad device.

Embedded Multi-party Conferencing

The Scopia XT4300 offers optional embedded multi-party conferencing with support for up to four participants. This dedicated multipoint collaboration capability is always at the ready for impromptu group meetings in today's fast-paced business environment.

All-in-one Solution

The Scopia XT4300 is also offered as a unique all-in-one video conferencing solution combining its room system capabilities with embedded four-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.

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.

Efficient Full HD Performance

The Scopia XT4300 delivers efficient full HD performance featuring H.264 High Profile for bandwidth efficiency and H.264 SVC for high quality images, even in unpredictable network environments. The XT4300 also offers dual 1080p 60fps live HD video and HD content, HD audio and optional Apple iPad Multi-Touch control.

Outstanding Value

The Scopia XT4300 offers outstanding value including a comprehensive set of features that can be costly upgrades in other vendor offerings. Dual 1080p 60fps full HD video, H.264 High Profile, H.264 SVC, and a wide angle PTZ camera are all included for cost-effective video communications

Scopia XT4300 Specifications

Communications
- IP: H.323, SIP (RFC 3261)
- ISDN[1] Supported through Scopia Gateway
- Bit rate: H.323, SIP: up to 4/12[1] Mbps
- H.320: up to 2 Mbps
- MCU compatibility: H.243, H.231

Video
- 2 simultaneous 1080p 60fps channels: camera + content
- H.263, H.263+, H.263++, H.264, H.264 High Profile, H.264 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: 1080p 60fps
- Presets: 122
- Field of View (H): 16° - 70°
- PAN / Tilt: ± 100° / ± 25°
- Zoom (standard): 5x (optical)
- Zoom (optional): 5x optical, 3x digital, 15x total
- Far End Control: H.224, H.281

Recording[1]
- Recording on USB key / disk (with dual display systems, both displays show the same images while recording), 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 Hz[1]
  G.729A: 50 – 3,400 Hz[1]

  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
- 180° range
- Frequency response: 50 – 22,000 Hz

Audio/Video Interfaces
- **Video inputs**:
  1 x HDMI
  1 x DVI-I
- **Video outputs:**
  1 x HDMI for main display
  1 x HDMI for second display[1]
- **Audio inputs:**
  1 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)
- **Audio outputs**:
  2 x HDMI (second output optional)
  1 x 3.5 mm (1/8") line out jack (analog / digital with mini-TOSLINK adapter)

USB Ports[2]
- 1 x USB2
- 1 x USB3

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) (2nd GLAN is optional)

Scopia XT4300 Options
15x Zoom Upgrade (5x Optical, 3x Digital)
Second HD Display Support
4 Port Embedded 1080p30 MCU
Scopia Desktop & Mobile Support
Digital Microphone Array Pod
Recording on USB Key / Disk
Scopia Control Application for Apple iPad device
2nd GLAN Enable
Extended IP Bit Rate: Multipoint = 12 Mbps, P2P = 10/8 Mbps (SIP/H.323)
Advanced Audio Codec Pack (G.728 and G.729A)

Scopia XT4300 Specifications (cont.)

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

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[1]
- Microsoft Exchange calendar integration

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

Multipoint Control Unit[1]
- H.323 and SIP mixed mode
- 4 HD continuous presence participants
- Support for Scopia Desktop and Mobile[1]
- Dial-in / Dial-out capabilities
- Encryption[3]
- Automatic continuous presence layouts
- Dual-video from any site

Security Features
- Embedded encryption[3]
- 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 HTTP
- 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, 2.5 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: 2.4 kg (5.3 lb)
- **Camera**
  W: 26.7 cm (10.5'')
  H: 15.6 cm (6.1'')
  D: 12.4 cm (4.8'')
  Weight: 1.3 kg (2.8 lb)
- **Microphone Pod:**
  W: 12.0 cm (4.7")
  Weight: 0.4 kg (0.9 lb)

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[1] Optional.

[2] USB supports recording, firmware upgrade, USB to serial adapter for control, limited headsets and cameras (USB2 camera support).

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

Learn More

To learn more and to obtain additional information such as white papers and case studies about the Avaya Scopia XT4300 Room System, please contact your Avaya Account Manager or Authorized Partner or visit us at **www.avaya.com**.

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Highlights

- Exceptional Experience

- Extraordinary Power

- Intuitive and Easy-to-Use

- Sleek and Elegant Design

- All-in-one Solution

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Avaya Scopia® XT5000 Room System

Exceptional Experience, Extraordinary Power

The Avaya Scopia® XT5000 is our flagship product in the Scopia series of room systems. The XT5000 incorporates dual 1080p/60fps live video and content, HD audio, simultaneous H.264 High Profile and Scalable Video Coding (SVC), and multi-party calling. The PTZ camera, supporting 1080p/60fps, offers 10x optical zoom (40x digital) and wide-angle capability for viewing details and an entire group.

The second video stream can be used with an additional camera or for high resolution 60fps data and content sharing. An embedded MCU with support for continuous presence with up to 9 participants is available. The advanced audio system delivers CD-quality, 20 kHz audio and includes a three-way beam forming digital microphone pod that isolates the speaker from noise. The user interface is designed for simplicity along with Apple iPad control for enhanced capabilities. The XT5000's refinement not only enhances the user experience but its modern hardware design complements any conference room.

H.264 High Profile and SVC, an embedded 9-way multi-party MCU, Apple iPad Multi-Touch control – all combine to make the XT5000 one of the most powerful conferencing systems ever created in its class.

Intuitive and Easy-to-Use

The Scopia XT5000 has been designed with the end user in mind. It delivers instant, intuitive and effective meeting control 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. To further extend its user functionality, the system is also enabled for control via the Apple iPad device.

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® XT5000 sets the standard for an exceptional conferencing experience. Simultaneous HD 1080p/60fps for live video and content and CD-quality, 20 kHz audio deliver an outstanding experience. H.264 High Profile provides ultimate bandwidth efficiency and H.264 Scalable Video Coding (SVC) offers high network error resiliency. The XT5000 delivers excellent performance in real-world network conditions.

Extraordinary Power

The Scopia XT5000 harnesses extraordinary power for the most demanding conferencing applications. Two full 1080p/60fps video channels,

Sleek and Elegant Design

The XT5000's refinement and polish go beyond the user experience to the sleek and elegant hardware design of the system. The XT5000 is a natural fit for today's businesses.

All-in-one Solution

The XT5000 is also offered as a unique all-in-one video conferencing solution combining its room system capabilities with embedded 9-way multi-party conferencing, Scopia Desktop conferencing, and firewall traversal. Additionally, participants can utilize Avaya Scopia Mobile to join video conferences via the latest mobile devices.

Avaya Scopia® XT5000 Specifications

Communications
- IP: H.323, SIP (RFC 3261)
- ISDN[1] Supported through Scopia Gateway
- Bit rate: H.323, SIP: up to 6/12[1] Mbps; H.320: up to 2 Mbps
- MCU compatibility: H.243, H.231

Video[2]
- 2 simultaneous 1080p60 channels: camera + auxiliary camera[1] or camera + content
- H.263, H.263+, H.263++, H.264, H.264 High Profile, H.264 SVC
- Dual video: 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
  768 x 448p @ 25, 30fps: w448p
  704 x 576p @ 25, 30fps: 4CIF
  704 x 480p @ 25, 30fps: 4SIF
  576 x 336p @ 25, 30fps
  512 x 288p @ 25, 30fps: wCIF
  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 DVI input formats @ 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[3]
- Far End Control: H.224, H.281

Recording[4]
- 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 Hz[1]
  G.729A: 50 – 3,400 Hz[1]
  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

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

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

USB Ports[5]
- 1 x USB2
- 1 x USB3

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

Scopia XT5000 Models	Scopia XT5000 Options (All)	Scopia XT5000 Options (720 only)
Scopia XT5000	Additional Premium Camera	Full HD (1080p) Enable
Scopia XT5000 720	Additional Digital Microphone Pod	2nd GLAN Interface Enable
	Advanced Camera, 20x Optical Zoom, Ceiling Mount, 1080p30	40x (10x Optical, 4x Digital) Zoom Enable
	4 HD Port Camera / Source Switch	Scopia Control
	4/9 Port 1080p30 Embedded MCU	Recording on USB Key / Disk
	Scopia Desktop & Mobile Support	
	Extended IP Bit Rate: Multipoint = 12 Mbps, P2P = 10/8 Mbps (SIP/H.323)	
	Advanced Audio Codecs	

Support Services

Avaya offers complete support services to help maximize your video investment. Strategic and technical consulting along with deployment and customization services help ensure that video collaboration rollouts are successful and aligned to your business requirements.

Avaya Video Support Services maximize up time with software updates, upgrades, and remote maintenance.

Avaya 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 global provider of business collaboration and communications solutions, providing unified communications, contact centers, networking and related services to companies of all sizes around the world. For more information please visit **www.avaya.com**.

Network Interfaces
- 2 x 10/100/1000 Base-T full-duplex (RJ-45)[4]
- "Keep Alive" packet time configurable

Firewall Traversal
- Auto NAT discovery HTTP and STUN
- H.460.18, H.460.19

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[4]
- Microsoft Exchange calendar integration

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

Multipoint Control Unit[1]
- H.323, SIP and H.320 mixed mode
- 4 / 9 HD continuous presence participants
- Support for Scopia Desktop and Mobile[1]
- Dial-in / Dial-out capabilities
- Encryption for up to 4 connected participants
- Automatic video layouts
- Dual-video from any site (H.323, H.320)

Security Features
- Embedded encryption[6]
- 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 2048 bits)
- Cryptographic hash (up to SHA-512)
- Web and console access HTTPS, SSH
- Selective enable / disable of IP features

Web Management
- Configuration, call, diagnostics and management functions are accessible with: Internet Explorer 7.0+, Firefox 3.0+, Safari 3.0+, Chrome 16.0+

Power Supply
- 100-240 VAC, 50-60 Hz, 2.5 A Max.

Physical Characteristics
- **Horizontal / Vertical Mounting:**
  W: 29 cm (11.4'')
  D: 16.5 cm (6.5'')
  H: 4 cm (1.6'')
  Weight: 2.4 kg (5.3 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: 14.0 cm (5.5'')
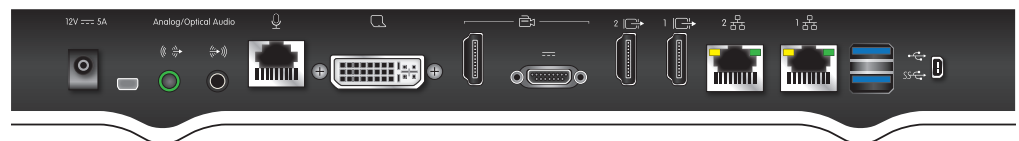 Weight: 0.3 kg (0.7 lb)

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[1] Optional.

[2] Encoding format in XT5000 720 is limited to 720p60, upgradable with 1080p option.

[3] Zoom limited to 5x optical in XT5000 720, upgradable with option.

[4] Optional only in XT5000 720.

[5] USB supports recording, firmware upgrade, USB to serial adapter for control, limited headsets and cameras (USB2 camera support).

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

Learn More

For additional information, or for an Avaya Scopia demonstration, contact your Avaya Account Manager or Avaya Authorized Partner or visit us at: **www.avaya.com**.

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AVAYA

Engage **The Power of We**™

Highlights

• Exceptional Experience

• Extreme Efficiency

• Intuitive and
Easy-to-Use

• Recording and
Multi-party
Conferencing

• All-in-one Solution

nemertes
RESEARCH
PilotHouse
Award

VENDOR LANDSCAPE AWARD
CHAMPION
INFO~TECH
research group

Avaya Scopia® XT7100 Room System

Exceptional Experience, Extreme Efficiency

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, 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.

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.

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.

Scopia XT7100 Specifications

Communications
- IP: H.323, SIP (RFC 3261)
- ISDN[2] supported through Scopia Gateway
- Bit rate: H.323, SIP: up to 6/12[2] Mbps; H.320: up to 2 Mbps
- MCU compatibility: H.243, H.231

Video
- 2 simultaneous 1080p60 channels: camera + auxiliary camera[2] 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)
- 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 Hz[2]
  G.729A: 50 – 3,400 Hz[2]
  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 switcher[2]
- **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 switcher[2]
- **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 Unit[2]
- H.323 and SIP mixed mode
- 4 / 9 HD continuous presence participants
- Support for Scopia Desktop and Mobile[2]
- Dial-in / Dial-out capabilities
- Encryption for up to 4 connected participants[3]
- Automatic continuous presence layouts
- Dual-video from any site

Security Features
- Embedded encryption[3]
- 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)

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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] 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**.

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FEEDBACK
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Kontakt

LIPINSKI TELEKOM GmbH
Winterstraße 36
D-13409 Berlin

www.lipinski-telekom.de
info@lipinski-telekom.de

030-986 00 3-0
030-986 00 3-30