

Devices and Phones

Avaya XT7100 Room System



Exceptional Experience, Extreme Efficiency

The Avaya XT7100 is the flagship offering in the 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 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.



Highlights

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

Exceptional Experience

The Avaya 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 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 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



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.

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 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 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 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

					
Camera Model	Advanced Camera II 20x 1080p60	Deluxe Camera 12x 1080p60	Flex Camera 5x 1080p60	HC020 1080p30	HC050 12x 1080p30
Image device	Exmor CMOS 1/2.8"	Exmor CMOS 1/2.8"	Exmor CMOS 1/2.8"	4K@30/25 CMOS1/2.7"	CMOS1/2.7"
Video Formats with laptop	Not applicable	Not applicable	Not applicable	4K@30/25 1080p60/50/30/25	1080p30/25 720p30/25
Video Formats with XT	1080p60/50/30/25 720p60/50/30/25	1080p60/50/30/25 720p60/50/30/25	1080p60/50/30/25 720p60/50/30/25	1080p30 / 720p30	1080p30 / 720p30
Video signal	Uncompressed on HDMI	Uncompressed on HDMI	Uncompressed on HDMI	Compressed (H.264) on USB or uncompressed on HDMI	Compressed (H.264) on USB
Focal Length	f = 4.7 - 94 mm F1.6 to F3.5	f=3.9 to 47.3 mm, F1.8 to F2.8	f=3.2 - 20 mm, F1.8 - 4.3	f=2.8mm	f3.5mm - 42.3mm, F1.8 - F2.8
Min object distance (wide)	1000(Wide) - 1500(Tele) mm	500mm (20inches)	600mm (24inches) in standard mode and 300 in wide mode	500mm	100mm
Min illumination	1.0 lux (F1.6, 50IRE, 60fps)	1.6 lx (F1.84, 50 IRE, 60fps)	1.3 lx (F1.8, 50 IRE 60fps)	0.05 Lux @ (F1.8, AGC ON)	0.5 Lux @ (F1.8, AGC ON)
HFoV	63°	74°	80° (***)	104°	72°
VFoV	36°	44°	48° (***)	68°	43°
Optical Zoom (*)	20x	12x	5x	NA	12x
Digital Zoom (*)	12x	4x	8x	8x	16x
Pan Range	+/- 170°	+/- 100°	+/- 100°	ePTZ (**)	+/-170°
Tilt Range	-30° - +90°	+/- 25°	+/- 25°	ePTZ (**)	+/- 30°
Serial Control	Serial In - Out	Serial In - Out	Serial In	Via USB	Serial In - Out - USB
Ceiling Mount	Supported	Supported	Supported	Supported	Supported
Camera mount	Basic kit for ceiling mount included in the box	XT Camera mount (55111- 00056) available for wall mount and display mount.	mount (55111- 00056) available for wall mount and display mount.	Tripod screw hole (1/4-20 UNC)	Tripod screw hole (1/4-20 UNC)
Weight	2 kg (4.4 lbs.)	1.3 Kg (2lbs 14oz)	1.3 Kg (2lbs 14oz)	0.35Kg	0.91Kg
Dimensions w/h/d	174 x 186 x 187 mm (6.9" x 7.3" x 7.3")	268 x 156 x 124 mm (10.5 x 6.1 x 4.8 inches)	268 x 156 x 123 mm (10.5 x 6.1 x 4.8 inches)	194mm x 34mm x 42mm (without bracket)	128.5mm x 118mm x 156.2mm
Current consumption (max)	2.5 A	2.2 A	2.2 A	1 A	1A
Use with Equinox Client	No	No	No	Yes	Yes
Video configurations	White balance (auto/manual); Focus Mode (auto/manual); Sharpness; Backlight; Exposure Compensation; Picture (auto/manual) and WDR level				
Voltage Range	12V nominal (10.8 to 13.0 V)	12V nominal (10.8 to 13.0 V)	12V nominal (10.8 to 13.0 V)	5V(USB)	DC 12V
IR repeater as TTL signal	On pin 7 Serial In	On pin 7 Serial IN	On pin 7 Serial IN	Not available	Not available
Camera Output	DVI-I	DVI-I	DVI-I	USB-HDMI	USB
Microphone	Not included	Not included	Not included	Included, frequency response 50Hz - 8KHz, 3m radius omni (6m diameter), coverage 360°	Included, frequency response 50Hz - 8KHz, 3m radius omni (6m diameter), coverage 360°
Presets	122 (for all connected cameras, directly on XT codec)				
Far end camera control	Through XT codec (H.224, H.281)				

(*) Zoom factor can be limited to 5x on some XT Models, such as XT for IPO. Zoom Upgrade license allows enabling full zoom features of selected model

(**) Digital Pan Tilt is supported when camera zoom is enabled.

(***) Upgradable to HFoV 84°/VFoV 51° with XT advanced settings on future firmware release

		
Model	XT 1-way POD	XT Premium 3-way POD
Type	1x condenser half cardioid	3x 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.

XT7100 Specifications

Communications

- IP: H.323, SIP (RFC 3261)
- Bit rate: H.323, SIP: up to 6 / 12Mbps
- 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) video⁴
- RTMP support for video streaming
- **HDMI input formats**
 - 3840 x 2160 @ 24, 25, 30fps (YCbCr 4:2:2)^{3,4}
 - 1920 x 1080p @ 25, 30, 50, 60fps
 - 1600x1200 @ 24, 25, 30fps (YCbCr 4:2:2)^{3,6}
 - 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 Control²



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 files²
- Digital signature for recorded files²

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
 - G.729A: 50-3,400Hz
 - 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: 50-20,000Hz⁴

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 (RJ11)
 - 1 x 3.5mm (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 3.5mm (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, 802.1p

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

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.

User Interface

- 24 language on-screen user interface
- Infrared remote control
- API for endpoint control
- Control application for Apple iPad and iPhone
- Microsoft Exchange calendar integration
- Bitmaps and logo customization²
- Standard Android compatible touch screens support

Directory Service & Address Book

- LDAP Client (H.350)
- Receive global address book from LDAP Server including Avaya Equinox

Multipoint Control Unit²

- H.323 and SIP mixed mode
- 4 / 9 HD continuous presence participants
- Desktop and Mobile Client support²
- Dial-in / Dial-out capabilities
- Encryption for up to 4 connected participants³
- Automatic continuous presence layouts
- Dual-video from any site
- Lecturer mode on system hosting the conference
- Supports 5 additional audio calls in MCU⁴
- XT MCU cascading (up to 65 participants in conference with 8 MCU slaves)⁴

Security Features

- Embedded encryption⁵
- 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) support⁴

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)

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)
- Full Brand Customization
- 4 HD Port Camera / Source Switch
- Codec Wall Mount
- Camera Wall Mount
- Carts supporting one or two displays
- Avaya IX™ Tracking Camera TC220 (requires v9.2 SP1)

About Avaya

Businesses are built on the experiences they provide and every day millions of those experiences are built by Avaya (NYSE:AVYA). For over one hundred years, we've enabled organizations around the globe to win—by creating intelligent communications experiences for customers and employees. Avaya builds open, converged and innovative solutions to enhance and simplify communications and collaboration—in the cloud, on premise, or a hybrid of both. To grow your business, we're committed to innovation, partnership, and a relentless focus on what's next. We're the technology company you trust to help you deliver Experiences that Matter. Visit us at www.avaya.com.

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.

⁶ With v9.2

