

Video conference module

Video conference display

Radvision (Avaya) Scopia XT Meeting Center S55



Premium All-in-One Solution

The Scopia XT Meeting Center is a high performance HD video conferencing solution powered by the Scopia XT5000. It integrates single or dual 55" 1080p premium displays in a specially designed, easy to maneuver cart for quickly creating a high quality meeting environment. The XT Meeting Center includes all the components for fast and easy turnkey implementation.

Exceptional Experience

The Scopia XT Meeting Center sets the standard for an exceptional conferencing experience. Unique simultaneous dual HD 1080p 60fps for live video and content and CD-quality, 20 kHz audio deliver outstanding quality. H.264 High Profile provides ultimate bandwidth efficiency and H.264 Scalable Video Coding (SVC) offers high network error resiliency for unequalled performance in real-world network conditions.

Unparalleled Power

The Scopia XT Meeting Center harnesses unparalleled power for the most demanding conferencing applications. Two full 1080p 60fps video channels, H.264 High Profile and SVC, an optional embedded 9-way MCU, and iPad Multi-Touch control - all combine to make the XT Meeting Center the most powerful system in its class.

Intuitive and Easy-to-Use

Designed with the end-user in mind, the Scopia XT Meeting Center's user interface uses the same intuitive design as Radvision's award-winning Scopia Mobile application, enabling instant, intuitive and effective control - no training required. For an enhanced experience, the XT Meeting Center is enabled for Multi-Touch control via the Apple iPad.

Sophisticated and Elegant Design

Refinement of the Scopia XT Meeting Center goes beyond the user experience to the sophisticated and elegant hardware design of the system. The system is a natural fit for today's businesses, not only for its ease of use, but also its modern design that complements any conference room. The Scopia XT Meeting Center is a powerful business system that combines form and functionality.

Video conferencing codec Radvision (Avaya) XT5000 endpoint



Scopia XT5000 Specifications

Communications

- IP: H.323, SIP (RFC 3261)
- ISDN¹ Supported through Scopia Gateway
- Bit rate: H.323, SIP: up to 6/12¹ Mbps
H.320: up to 2 Mbps
- MCU compatibility: H.243, H.231

Video

- 2 simultaneous 1080p60 channels: camera + auxiliary camera¹ or camera + content
- H.263, H.263+, H.263++¹, H.264, H.264 High Profile, H.264 SVC (both using Baseline and High Profile)
- Dual video: H.239 (H.323); BFCP (SIP)
- **HDMI input formats**
1920 x 1080 @ 25, 30, 50, 60fps
1280 x 720 @ 25, 30, 50, 60fps
720 x 576 @ 50fps
720 x 480 @ 60fps
640 x 480 @ 60fps
- **Live video encoding formats**
1920 X 1080 @ 25, 30, 50, 60fps: HD1080p25, 30, 50, 60
1280 x 720 @ 25, 30, 50, 60fps: HD720p25, 30, 50, 60
1024 x 576 @ 25, 30fps: w576p
768 x 448 @ 25, 30fps: w448p
704 x 576 @ 25, 30fps: 4CIF
704 x 480 @ 25, 30fps: 4SIF
576 x 336 @ 25, 30fps
512 x 288 @ 25, 30fps: wCIF
400 x 224 @ 25, 30fps
352 x 288 @ 25, 30fps: CIF
352 x 240 @ 25, 30fps: SIF
- **DVI input formats**
1920 x 1080 @ 25, 30, 50, 60fps
1440 x 900 @ 60fps: WSXGA
1280 x 1024 @ 60fps: SXGA
1280 x 720 @ 25, 30, 50, 60fps
1280 x 768 @ 60fps: WXGA
1024 x 768 @ 60fps: XGA
800 x 600 @ 60fps: SVGA
640 x 480 @ 60fps: VGA
- **PC content encoding formats:**
Same as 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
- Far End Control: H.224, H.281

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 Hz¹
G.729A: 50 – 3,400 Hz¹
G.722: 50 – 7,000 Hz
G.722.1: 50 – 7,000 Hz
G.722.1 Annex C: 50 – 14,000 Hz
AAC-LD: 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
- **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:**
1 x HDMI
1 x 3.5 mm (1/8") line out jack (analog / digital with mini-TOSLINK adapter)

Network Features

- IPv4 and IPv6 simultaneous support
- Auto Gatekeeper discovery
- QoS support: IP Precedence, IP Type of Service (ToS), Differentiated Services (diffserv)
- IP adaptive packet management including:
Flow control
Packet Loss based down-speeding
Packet Loss recovery policies
- DTMF tones: H.245, RFC2833
- SNTP date and time synchronization

Network Protocols

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

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

Auxiliary Camera Interface

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

User Interface

- 21 language on-screen user interface
- Infrared remote control
- API for endpoint control
- Scopia Control application for Apple iPad

Directory Service & Address Book

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

Embedded HD Multipoint Control Unit¹

- H.323, SIP and H.320 mixed mode
- 4 / 9 HD continuous presence participants
- Support for Scopia Desktop and Mobile¹
- Dial-in / Dial-out capabilities
- Encryption for up to 4 connected participants
- Automatic continuous presence layouts
- Dual-video from any site (H.323, H.320)

Security Features

- Embedded encryption²
- Key generation and exchange with Public-Key Cryptography (Diffie-Hellman), (H.323, SIP)
- H.235 AES 128 Confidentiality for RTP media
- H.235 MD5 Authentication
- H.235 Authentication and Integrity (H.235v3/Annex D)
- Digest Authentication
- Microsoft NTLM Authentication and Session Security (SSP)
- 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+

Options

- 4/9 port 1080p30 Embedded MCU
- Additional 1080p 60fps camera (connected to DVI-I)
- Support for Scopia Desktop and Mobile
- Additional Digital Microphone Array Pod
- 12 Mbps Extended IP Bit Rate
- Advanced Audio Codec Pack (G.728 and G.729A)

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)

1. Optional

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

Device for multi-stream telepresence connectivity
Radvision (Avaya) Scopia Elite 5105/20



Supreme High Definition

With 1080p High Definition processing, multi-stream telepresence connectivity, 24 video layout options with up to 28 participants displayed simultaneously through Continuous Presence, personal video layouts per participant along with unlimited conferences, Scopia Elite delivers uncompromised HD video conferencing.

Flexible Resources

Mixed endpoint applications are supported with ease and efficiency. Enhanced Definition at 4X capacity affords excellent value. On-demand, dynamic and automatic resource allocation supports any combination of endpoint capabilities without complex configuration changes.

Optimized Quality

Encoder per participant ensures an optimal quality experience for any endpoint on any network. H.264 Scalable Video Coding (SVC) along with NetSense bandwidth adaptation technology deliver superior performance over unmanaged and compromised networks.

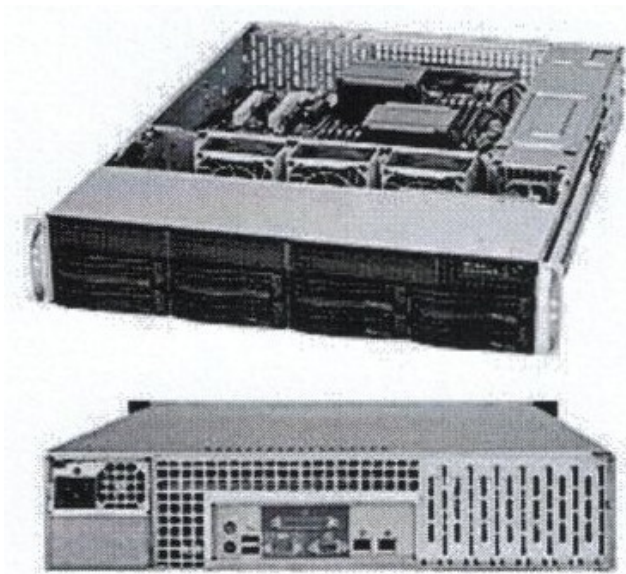
Maximum Usability

Scopia Elite was designed by users and administrators for usability and simplicity. On-screen information overlays, easy conference creation and entry through the enhanced video auto attendant and IVR make attending conferences simple. The industry leading management interface makes seemingly complicated tasks simple; users can view important statistics at a glance saving time, money and headache.

Designed to Scale

Unequaled scalability is achieved through a patented, multi-party conferencing architecture via Scopia Management. Scopia Management intelligently virtualizes resources where conferencing components are strategically distributed throughout the network – creating virtual conference rooms dynamically and transparently across multiple distributed MCUs.

Video communication server **Server Supermicro 825TQ-600LPB**



Features

1. 600W high efficient supply with Digital Switching Control
2. 8x3.5" Hot-swap SAS/SATA Drive Bays
3. 1xSlim DVD Drive (optional)
4. Air Shroud
5. 7xLow-profile, Full-length I/O expandable slots
6. 1xSerial, 2xUSB Front Access I/O (optional)
7. 2xFixed 3.5" ports for devices
8. Full SES2 support with SAS mother board and other devices

Scopia desktop



Create Conference Rooms Without Walls

Connect from anywhere, create a virtual conference room and invite users or room systems. The network is not in your way with Embedded Firewall Traversal and Extreme Network Tolerance with H.264 SVC (Scalable Video Coding).

HD Everywhere

Bring your room system experience with you, wherever you go, to whatever desktop you use. Experience High Definition video and presentations on both a PC or a Mac with a webcam.

Never Miss Anything

With SCOPIA Desktop's advanced data collaboration you can go back and review previously presented material if you arrive late. Any participant can also record a meeting and view the recording on a desktop or device when not connected.

Works the Way You Work

Integrated with Microsoft® Office® or IBM® Lotus® Notes® on your desktop. Utilize your existing Microsoft Active Directory® or Lotus Domino® infrastructure.

One on One or as a Group

Optimized for one on one meetings with its presence based calling and invitations. Bring more people to the meeting with seamless escalation to multi-party conferences.

Scopia Management Specifications

Scheduling & On-Demand Conferencing

- Web-based intuitive interface
- Scheduled and ad hoc conference support
- Microsoft Outlook and IBM Lotus Notes integration for scheduling
- Any type of endpoint can connect to the same conference: H.323, SIP, ISDN, 3G/4G/LTE Mobile, POTS phone
- Customized personal virtual room
- Video resource reservations (MCU, Gateway, Gatekeeper)
- Geographical scheduling of resources and bandwidth based on network topology
- Least cost routing to reduce ISDN call costs
- Checks MCU and endpoints for resource availability
- Automatic invite of endpoints (dial-out)
- Email notifications to meeting participants
- Dual directory support: LDAP and internal

Endpoint Management

- Centralized access to gather system information from a single point
- Monitoring to continuously check status and report problems
- Remotely maintain systems and perform operations – upgrades, configurations, resets
- Centralized directory – distribute address books to endpoints or function as corporate directory server

Scopia Desktop Integration

- Management and control of desktop to desktop / desktop to room system conferencing

Comprehensive Conference Control

- Creates simplified dial plan and system accessibility by providing a single call-in number for the entire deployment
- View and control meeting participants
- Invite / drop participants
- Change screen layout
- Personal layout settings
- Mute / un-mute audio
- Block / unblock video
- Extend or terminate the conference
- Seamlessly manage cascaded conferences
- Intuitive lecture mode control

Reports and Statistics

- Graphical display of infrastructure usage and utilization (MCU, Gateway, Scopia Desktop/Mobile servers and endpoints)
- Graphical display of multipoint statistics: average call duration and number of participants

- Graphical display of usage per virtual room
- Google Maps™ integration
- Detailed call records on screen or in xl format
- Executive summary reports in PDF format

User Provisioning

- Detailed provisioning and access control privileges by user and group for: Bandwidth • Recording • Maximum participants

Administration

- Multi-tenant support
- On demand bandwidth reduction to make it available for other conferences
- Concierge services – participants can connect to a concierge meeting before joining a conference allowing an operator to check and validate the entry of a participant
- CDRs for billing purposes
- Organizational user management
- Organizational meeting management
- Full XML API for integration into third party systems

SIP & H.323 Integration

- SIP server & H.323 support for third party application integration

External Database Support

- MySQL
- Microsoft SQL Server

Capacity

- 400,000 LDAP users
- 10,000 point to point registered users online
- 2,000 concurrent calls per deployment
- 500 users per conference
- 40 MCUs

Language Support

- User: Chinese (simplified), Chinese (traditional), English, French, German, Italian, Japanese, Korean, Portuguese (Brazilian), Russian, Spanish (international)
- Administrator: English

System Requirements

- Please see Release Notes for detailed system requirements

Web Client

- Browsers: Internet Explorer®, Firefox®, Safari®, Google Chrome™

Components of the SCOPIA Desktop Server



- **SCOPIA Desktop Conference Server**

This is the main gateway responsible for creating conferences with SCOPIA Desktop Clients, and connects to the MCU to enable transparent connectivity with H.323 endpoints.
- **SCOPIA Desktop Streaming Server**

Responsible for streaming webcasts. This server functionality is available for all deployment types, and in SCOPIA Desktop this service is offered by a server known as Darwin.
- **Tomcat Application Server**

The underlying web server and application server is implemented by Tomcat in SCOPIA Desktop deployments. It also provides the following functionality:

 - Automatic downloads and updates of the SCOPIA Desktop Client
 - The SCOPIA Desktop Recording Server
 - The SCOPIA Desktop portal web page from which users can sign in and launch the SCOPIA Desktop Client.
 - User authentication
- **SCOPIA Desktop Recording Server**

Part of the Tomcat Application Server, this service is responsible for recording meetings, storing recordings, providing HTTP access to the recordings, and presenting the SCOPIA Desktop Content Slider content. This server functionality is available for all deployment types except point-to-point deployments.
- **SCOPIA Desktop Presence (XMPP) Server**

Maintains a live list of contacts which are available or unavailable for video chat or videoconference. This information is presented in the Contact List of SCOPIA Desktop Pro. In SCOPIA Desktop deployments, this is implemented with Jabber. The XMPP server is also responsible for user authentication, and it is used for attendee registration and invitations.

The presence server must be configured separately after the initial SCOPIA Desktop installation. This server functionality is only available for point-to-point and advanced deployments.

- STUN Server

Enables you to directly dial a SCOPIA Desktop Client or Server behind a NAT or firewall in point-to-point implementations by giving that computer's public internet address. Third-party STUN Servers are supported.

Deployments where a STUN Server is used has these restrictions:

- You cannot use a NAT address on the STUN Server and expose it via a static or dynamic public IP address. Instead you must configure the STUN Server with a public IP address.
- You must place the STUN Server at a location which is accessible by both SCOPIA Desktop Clients participating in a call.
- SCOPIA Desktop Clients can use different STUN Servers provided that the STUN Servers are situated on the Internet outside the Clients' NAT.