

Xtreme 300

Full High Definition Video Communication System



aethra®
keep connected..

Extreme Usability

New Graphic User Interface simple, immediate and elegant, extremely easy to use also thanks to the new remote control.

Extreme Performances

New enhanced features, full HD system (1080p), superior audio quality, full HD data sharing.

Extreme Flexibility

High system modularity: from the embedded MCU (4 or 9 sites) to the video resolution up to 1080p software option.



Xtreme 300 is the enhanced HD video communication system with top of the range performances and an elegant Italian design by Paolo Villa Studio visible in each detail: from set-top to the customized camera, from Graphic User Interface to the new remote control. The high experience of Aethra and the focus on innovation make Xtreme 300 a perfect system to maximize HD video communication. It is suitable for videoconference sessions in medium and large video conferencing rooms.

Highest performances and excellent quality

Video resolution up to 1920x1080 (1080p), excellent audio quality with unique 20 kHz G.719 audio coding, graphic resolution up to 1920x1200 (WUXGA) make Xtreme 300 the professional system for the best HD video communication.

Refined design in each detail

Each detail is carefully studied for a pleasant and refined video communication experience.

New Graphic User Interface and very high usability

Xtreme 300 features a completely renewed and enhanced GUI: several transparency levels for menu and information, video images in full screen, colored buttons to access the most used functions. Everything was designed to make Xtreme 300 very easy to use.

Modularity and expandability

The basic system features a video resolution up to 720p30. Many options can be added to reach the top technical level: video resolution up to 1080p30, MCU up to 4 or 9 sites, bandwidth up to 12 Mbps, connection up to 768 kbps over ISDN BRI or up to 2 Mbps over ISDN PRI.

Xtreme 300

Technical Specifications



Supported Standards

- ITU-T H.320 ISDN (*)
- ITU-T H.323 IP networks
- IETF-SIP (RFC3261) IP networks
- Video H.261, H.263, H.263+, H.263++, H.264
- Audio G.711, G.728, G.722, G.722.1, G.722.1 Annex C, G.719, MPEG4 AAC-LD
- Data T.120
- LDAP H.350
- Far End Camera Control (FECC) H.224, H.281
- MCU compatibility H.243, H.231

Transmission

- Bit rate 56 kbps ÷ 768 kbps over ISDN BRI (1)
- 56 kbps ÷ 2 Mbps over ISDN PRI 1(**)
- 64 kbps ÷ 12 Mbps over IP (H.323/SIP) (2)
- Asymmetric rates
- 56 kbps ÷ 2 Mbps over V.35/Leased (1)
- (1) With external XLNA module (*)
- (2) 6 Mbps ÷ 12 Mbps with sw option
- (**)in North America ISDN PRI/T1 at 1544 kbps (ANSI T1 recommendations)

Video

- Dual Video Stream H.239 Dual Video H.323 BFCP Dual Video SIP Support for resolution up to 1080p30 in both main stream and dual stream simultaneously
- Video resolution 1920 x 1080 @30fps HD 1080p30 (*)
- 1280 x 720 @30fps HD 720p30
- 1024 x 576 @30fps w576p
- 768 x 448 @30fps w448p
- 512 x 288 @30fps wCIF
- 352 x 288 @30fps CIF
- 352 x 240 @30fps SIF
- 1920 x 1200 @30fps WUXGA (3)
- 1440 x 900 @30fps WXGA+
- 1280 x 1024 @30fps SXGA
- 1280 x 768 @30fps WXGA
- 1024 x 768 @30fps XGA
- 800 x 600 @30fps SVGA
- 640 x 480 @30fps VGA
- (3) Reduced Blanking Mode

Audio

| Audio | Band | Bit rate |
|-----------------|---------------|---------------|
| G.711 | 300 ÷ 3400 Hz | 48/56/64 kbps |
| G.728 | 50 ÷ 3400 Hz | 16 kbps |
| G.722 | 50 ÷ 7000 Hz | 48/56/64 kbps |
| G.722.1 | 50 ÷ 7000 Hz | 24/32 kbps |
| G.722.1 Annex C | 50 ÷ 14000 Hz | 24/32/48 kbps |
| G.719 | 50 ÷ 20000 Hz | 32/48/64 kbps |
| AAC-LD | 50 ÷ 14000 Hz | 48/56/64 kbps |

- Echo cancellation Full-duplex
- Adaptive post filtering
- Audio Error Concealment
- Automatic Gain Control (AGC)
- Automatic Noise Suppression

Hi-Band Digital Microphone Pod

- Range 360°
- Response 50 ÷ 22000 Hz
- Microphones 3
- Mute button
- Up to 2 pods in a daisy-chain configuration

(*) Available as sw option with firmware upgrade.

External HD Camera

- Resolution 1920 x 1080 pixels
- Presets 122 presets
- H. angle of view 8 to 74 degrees
- PAN ± 100°
- TILT ± 25°
- Zoom 10.5x (optical)

Network Interfaces

- Basic version Ethernet
- 1-Port 10/100BASE-T full-duplex 1 RJ-45
- 1-Port 10/100/1000BASE-T full-duplex 1 RJ-45
- Optional Network Module: IDC type connector to connect the XLNA

Network Protocols

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

Network Features

- IPv4 and IPv6 simultaneous support
- QoS support Differentiated Service (DIFFSERV) IP Precedence, IP Type of Service (ToS)
- Auto Gatekeeper Discovery
- IP adaptive packet management AeCPM including: Flow control Packet Loss based Downspeeding Packet Loss recovery Policies
- DTMF Tones H.323: H.245 UserInput, RFC2833, in band SIP: RFC2833, in band
- Internet Date and Time synchronization via SNTP

Firewall Traversal

- Auto NAT discovery HTTP and STUN
- H.460.18 H.460.19

Audio/Video Interfaces

- Video inputs Connection Max Resolution Connector
- 2x HD 1920x1080@30fps HDMI
- 1x XGA 1920x1200@60fps DVI-I
- Video outputs Connection Max Resolution Connector
- 2x HD 1920x1080@30fps HDMI
- Automatic Dual Monitor support via Monitor Auto Detect Feature
- Audio inputs Connection Level Connector
- 1x Full Band Microphone Pod Dig. RJ-11
- 1x SPDIF user interface Dig. RCA
- 2x HD audio/video input Dig. HDMI
- Audio outputs Connection Level Connector
- 1x SPDIF user interface Dig. RCA
- 2x HD audio/video output Dig. HDMI

Auxiliary Interfaces

- Data/Diagnostic RS232 Mini-DIN 8-pin with DB9 adapter Mini-DIN 8-pin
- VISCA RS232 for PTZ camera control
- USB 2.0 (Host)
- USB 2.0 (OTG)

Interoperability

- Microsoft® Office Communicator 2007
- Cisco® Call Manager 6.0

User Interface

- Multilingual on-screen graphic user interface
- 19 user selectable languages
- Infrared remote control for full function control
- Contextual help
- Diagnostics and management functions
- Call progress monitoring
- API for GUI customization (XML)

Directory Service & Address Book

- Embedded LDAP Client H.350 compliant
- Embedded LDAP Server H.350 compliant for Local Directory, up to 10,000 local entries
- Supported features: Save, Remove, Edit, Redial, Sort, List, Search Quick Dial
- Recent calls, received calls, missed calls with call info: date & time, duration, address details

Multipoint Function

- Integrated MCU H.323 and SIP mixed mode up to 4 HD CP participants (sw option) up to 9 HD CP participants (*)
- Compatible with analog and mobile networks
- Multisite Calls H.231
- Chair control H.243
- Dial-In/Dial-Out capabilities
- Transcoding
- Encryption
- Automatic CP layouts
- Dual-video from any site

Security Features

- Embedded Encryption supported in point to point and multipoint
- Key generation and exchange with Public-Key Cryptography (Diffie-Hellman), H.323 and 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

- All the configuration, call, diagnostics and management functions are accessible using the following web browsers:
- Microsoft® Internet Explorer™ 7.0+
- Firefox 3.0+
- Safari 3.0+

Remote Diagnostics and Management

| | Local | Web Browser |
|----------------|-------|-------------|
| Self test | Yes | Yes |
| Diagnostics | Yes | Yes |
| Configuration | Yes | Yes |
| Call | Yes | Yes |
| Error tracking | Yes | Yes |

Integrated Presentation

- Supported applications Microsoft® PowerPoint®
- Multimedia support T.120

Power Supply

- 100-240 Vac 50-60 Hz 2.5 A Max

Dimensions

| • XTREME 300 | | Width | 37,8 cm (14.88") |
|------------------------|--------|------------------|------------------|
| Horizontal | Height | 5 cm (1.97") | |
| | Depth | 18,3 cm (7.2") | |
| Vertical with Pedestal | Width | 16,1 cm (6.34") | |
| | Height | 39,8 cm (15.67") | |
| | Depth | 20,5 cm (8.07") | |



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