

vega® X5

High-quality Set-top



Quality, Design, Innovation

Crystal clear audio and superior video quality at 4 Mbps, enhanced by the elegant design from the Paolo Villa studio

Professional Collaboration

The built-in MCU connects up to 9 sites with Continuous Presence in mixed mode ISDN, IP-H.323 and IP-SIP

The Unified Communications Solution

Enables the extension of professional video communication to the PC, via Hydra, the desktop solution from Aethra



Vega® X5 is a high-performance system at the cutting-edge of set-top technology.

The result of the most advanced Research & Development, it offers optimum audio and video quality and is enhanced by an elegant design from the Paolo Villa studio. A professional communications tool, it is ideal for video conferencing sessions in medium to large meeting rooms.

Supports Multiple Connectivity

Available in several versions: for connections up to 768 kbps over ISDN BRI and up to 4 Mbps over IP; as well as connections up to 2 Mbps over ISDN PRI or over leased lines (X.21, V.35, RS449, RS366, G.703).

Simultaneous Dual-Stream Video

Convenient XGA input and output ports provide one-step PC plug-in for simultaneous dual-stream video and live PC presentations with enhanced images.

Voice Tracking and Wideband Audio

Voice Tracking technology enables the camera to automatically track and frame the person who is speaking without the need to use the remote control. Precise and reliable, Voice Tracking is exclusively patented by Aethra.

Desktop Connectivity

The X-Line's very powerful high-quality embedded MCU (Multipoint Conferencing Unit), allows connection to Hydra, the desktop solution from Aethra, enabling interactive multimedia video conferencing sessions between traditional room-based endpoints and PCs.

Supported Standards

- ITU-T H.320 ISDN, leased networks
- ITU-T H.323 IP networks
- IETF-SIP (RFC3261) IP networks
- PPPoE
- Video H.261, H.263, H.263+, H.263++, H.264, H.239, H.241 G.711, G.728, G.722, G.722.1 G.722.1 Annex C, MPEG4 AAC-LD T.120
- Audio H.350
- MCU compatibility H.243, H.231

Transmission

- Bit rate 56 kbps ÷ 768 kbps over ISDN BRI¹
56 kbps ÷ 2 Mbps over ISDN PRI^{**2}
64 kbps ÷ 2 Mbps over IP (H323/SIP)
64 kbps ÷ 4 Mbps over IP (H323/SIP) option Asymmetric rates
56 kbps ÷ 2 Mbps over V.35/Leased²
- (1) Up to 384 kbps with sw option, up to 768 kbps with hw option
- (2) With hw option
- (**) in North America ISDN PRI/T1 at 1544 kbps (ANSI T1 recommendations)
- Simultaneous video motion coding and PC presentations from the XGA input

Video

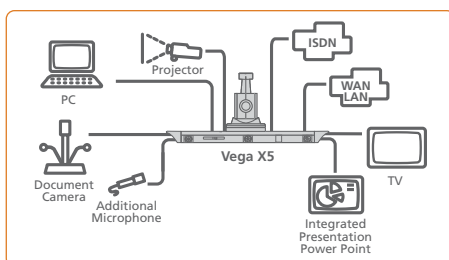
- Frame rate 15 frames per second @ 56 kbps -128 kbps
30 frames per second @ 168 kbps - 4 Mbps
60 fields per second @ 336 kbps - 4 Mbps
60 fields per second @ 384 kbps - 4 Mbps
- Video resolution w720p 1280 x 720 pixels (receiving only)
4CIF 704 x 576 pixels
FCIF 352 x 288 pixels
QCIF 176 x 144 pixels
4CIF 704 x 576 pixels for still images (H.261 Annex D)
4SIF 704 x 480 pixels
SIF 352 x 240 pixels
QSIF 176 x 120 pixels
4SIF 704 x 480 pixels for still images (H.261 Annex D)
Up to 1024 x 768 pixels over XGA in H.263
- Remote camera control H.281 (H.320 - H.323)

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 |
| AAC-LD | 50 ÷ 14000 Hz | 48/56/64 kbps |
- Echo cancellation Full-duplex
 - Adaptive post filtering
 - Automatic Gain Control (AGC)
 - Automatic Noise Suppression
 - Downsampling H.320/H.323

Audio Tracking

- Tracking Enhanced Voice Tracking
- Coverage max. 6 m, recommended 3 m
- Location ±60° horizontal, ±25° vertical



Hi-Band Digital Microphone Pod

- Range 360°
- Response 50 ÷ 14000 Hz
- Microphones 3
- Mute button
- Up to 2 pods in a daisy-chain configuration

Built-in Camera

- Resolution 752 x 582 pixels
- Presets 122 presets
- H. angle of view 6.4 to 65.5 degrees
- Total angle of view 265 degrees
- Zoom 10.5x
- Min. Lux 1.5
- Automatic White Balance

Supported Monitor

- Format PAL, NTSC, HighDef
- Single, Dual monitor, HighDef
- PIP and PAP function
- 16:9
- Dual Monitor Emulation

Network Interfaces

- Basic version Ethernet
2-Port 10/100BASE-T full-duplex with integrated switch Ethernet 2 RJ-45
- Optional ISDN 1/3/6 BRI with integrated channel aggregator or 1 E1/T1 PRI with integrated channel aggregator or Leased networks 1/3/6 RJ-45
X.21/V.35/RS366/RS449 or G.703 44 pin Hi/Den 1 RJ-45

Network Protocols

- TELNET, HTTP, SNMP, DNS, DHCP, RTP/RTCP, TCP/UDP, ARP, STUN, SNTP, FTP

Network Features

- Differentiated Service (DIFFSERV), IP Precedence, IP Type of Service (ToS), Auto Gatekeeper Discovery, Clever Packets Management (AeCPM)

IPv6 support

- Dual Stack IPv4 and IPv6 simultaneous support

Firewall Traversal

- Auto NAT discover HTTP and STUN
- H.460.18 H.460.19
- "Keep Alive Packet" time configurable

Audio/Video Interfaces

- Video inputs
Main camera Integrated Y/C, not accessible
Aux In Composite (RCA)
Doc. Cam. 1 S-video (Mini-DIN)
Doc. Cam. 2 S-video (Mini-DIN)
Doc. Cam. 3 Composite (RCA)
XGA In DVI-I
- Video outputs
Monitor 1 Composite (RCA)
S-video (Mini-DIN)
Monitor 2 S-video (Mini-DIN) with monitor detect
- Aux Out Composite (RCA)
XGA Out DVI-I
- Audio inputs
Connection Level Connector
2xPod mic. 360° Dig. RJ-11 6/6
Aux. mic. Stereo jack 3.5 mm
Audio In Line RCA
Aux In Line 2 RCA (L/R)
- Audio outputs
Connection Level Connector
Monitor 1 Line 2 RCA (L/R)
Aux Out Line 2 RCA (L/R)

HighDef (XGA)

- Input VGA, SVGA, XGA, WXGA, SXGA
- Output VGA, SVGA, XGA, WXGA, SXGA

Auxiliary Interfaces

- Data RS232 Mini-DIN 8-pin with DB9 adapter
- Diagnostics RS232 Mini-DIN 8-pin
- VISCA RS232 Mini-DIN 8-pin supports Canon or Sony, aux PTZ camera
- PC card 1 PCMCIA, type II for Wi-Fi card

Closed Captioning/Text Chat

- T.140 text chat, available from Web

Interoperability

- Microsoft[®] Office Communicator 2007

User Interface

- Multilingual on-screen graphic user interface
- User selectable languages: Italian, English, French, Spanish, German, Portuguese, Norwegian, Swedish, Russian, Czech, Arabic, Hungarian, Polish, Finnish, Simplified Chinese, Traditional Chinese, Japanese, Korean, Turkish
- Infrared remote control for full function control
- Contextual help
- Diagnostics and management functions
- Call progress monitoring
- Supports AMX[™] or Crestron[™]
- Customizable Graphic User Interface
- Web streaming function: UNICAST and MULTICAST compatible with QuickTime[™]
- Security mode (sw option)

Multipoint Function (option)

- Integrated MCU H.320, H.323 and SIP mixed mode up to 9 participants
- Compatible with analog and mobile networks
- Video coding H.261, H.263, H.263+, H.263++, H.264 G.711, G.722, G.722.1, G.728
- Audio coding H.243
- Chair control H.243
- Dial-In/Dial-Out capabilities
- Continuous Presence
- Encryption
- H.239 Dual-video from any site
- Desktop Connectivity (optional)

Encryption

- AES encryption standard H.233, H.234, H.235
- NIST (National Institute of Standards & Technology) certified

Web Management

All the configuration, call, diagnostics and management functions are accessible using the following web browsers: Microsoft[®] Internet Explorer[™], Netscape Navigator[™]

Remote Diagnostics and Management

	Local	Web Browser	SNMP
Self test	Yes	Yes	Yes
Diagnostics	Yes	Yes	Yes
Configuration	Yes	Yes	Yes
Call	Yes	Yes	Yes
Error tracking	Yes	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

- VEGA X5
Width 54 cm (21.25")
Height 22.5 cm (8.85")
Depth 23 cm (9.05")

AETHRA[®] SpA

via Matteo Ricci, 10
60126 Ancona (Italy)
Telephone +39.071.218981
Fax +39.071.887077
Video 1 +39.071.2189704
Video 2 +39.071.2189701

Beijing Hong Kong London Madrid
Mexico City Paris Miami São Paulo
Shanghai Shenzhen

Email: info.aethra@aethra.com
www.aethra.com