

vega® X3

High-quality set-top



Highest Quality

Crystal clear audio and superior video quality at 2 Mbps

Enhances Collaboration

Aethra Collaborative Tools for PC presentation and data sharing

Convenient

Fully featured set-top solution with embedded DVI/XGA ports and support for 2 monitors



Vega® X3 is a high-performance system at the cutting-edge of set-top technology. It is ideal for small or medium group of people in a videoconferencing sessions that require enhanced audio and video quality. Easy to use thanks to the user friendly GUI managed by the new "one-touch" remote control.

Supports Multiple Connectivity

Available in several versions: for connections up to 512 kbps* over ISDN BRI and 2 Mbps over IP; both for H.323 or SIP networks.

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.

Wideband audio

The first system to support both 14-kHz (ITU and ISO) wideband audio codecs adopted in videoconferencing.

Increases Collaboration

Built-in MCU connects up to 4 sites with Continuous Presence in mixed mode ISDN, IP-H.323 and IP-SIP.

Customizable Graphic User Interface

The user is able to choose layouts and colours from a variety of alternatives.

* 128 kbps on board; up to 512 kbps using the external X Line Network Adapter

vega® X3

Technical Specifications



Supported Standards

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

Transmission

- Bit rate 56 kbps ÷ 512*kbps over ISDN BRI, 64 kbps ÷ 2 Mbps over IP (H323/SIP), Asymmetric rates
- Simultaneous video motion coding and PC presentations from the DVI/XGA input
- * 128 kbps on board; up to 512 kbps with X Line Network Adapter

Video

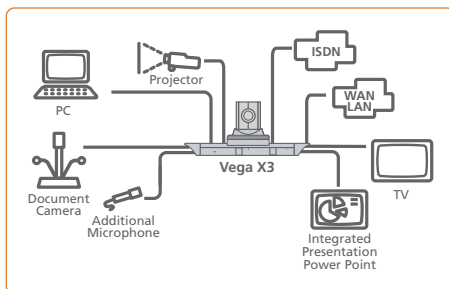
- Frame rate 15 fps @ 56 kbps - 128 kbps, 30 fps @ 168 kbps - 2 Mbps
- Video resolution 4CIF 704 x 576 pixels, FCIF 352 x 288 pixels, QCIF 176 x 144 pixels, 4CIF 704 x 576 pixels for still images (H.261 Annex D), 4SIF 704 x 480 pixels, SIF 352 x 240 pixels, QSIF 176 x 120 pixels, 4SIF 704 x 480 pixels 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

Hi-Band Digital Microphone Minipod

- Range Cardioid 120°
- Response 50 ÷ 14000 Hz
- Microphones 1
- Mute button



Built-in Camera

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

Supported Monitor

- Format PAL, NTSC, HighDef
- Single, 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 BRI with integrated channel aggregator 1 RJ-45
- Network Module IDC Type Connector to connect the X Line Network Adapter
- ISDN 4 BRI with integrated channel aggregator 4 RJ-45

Network Protocols

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

Network Features

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

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, Composite (RCA), DVI-I
- Video outputs Monitor Composite (RCA), XGA Out DVI-I
- Audio inputs Connection Level Connector Pod mic. Dig. RJ-11 6/6, Aux. mic. Mic Stereo jack 3.5 mm, Audio In Line RCA
- Audio outputs Connection Level Connector Monitor Line RCA, Aux Stereo jack 3.5 mm

HighDef (XGA/DVI)

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

Auxiliary Interfaces

- Data & Diagnostics RS232 Mini-DIN 8-pin with DB9 adapter
- VISCA RS232 Mini-DIN 8-pin supports Canon or Sony, aux PTZ camera

Closed Captioning/Text Chat

- T.140 text chat, available from Web

User Interface

- Multilingual on-screen graphic user interface
- User selectable languages: Italian, English, French, Spanish, German, Portuguese, Norwegian, Swedish, Russian, Czechoslovakian, 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™

Multipoint Function (option)

- Integrated MCU H.320, H.323 and SIP mixed mode 3+1 participants @ 384 kbps
- Compatible with analogue and mobile networks
- Video coding H.261, H.263++
- Audio coding G.711, G.722, G.722.1, G.728, H.243
- Chair control
- Dial-In/Dial-Out capabilities
- Continuous Presence
- Encryption
- H.239 Dual-video from any site

Encryption

- AES encryption standard H.233, H.234, H.235, H.235 Annex D
- 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 1.5 A Max

Dimensions

- VEGA X3 Width 16,5 cm (6.5"), Height 14 cm (5.5"), Depth 20.5 cm (8")

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