

vega® X3

High-performance Set-top



Best Price-Performance Ratio

Professional video communications set-top with embedded digital XGA connections via its DVI port

Simplicity, Quality, Design

Crystal clear audio and superior video quality at up to 2 Mbps in a sophisticated design by Paolo Villa

Easy Collaboration

Includes "Aethra Collaborative Tools" functions for PC presentations and data exchange



With an extremely small footprint, the Vega® X3 was designed by the Paolo Villa Studio to combine high-tech features and functions with an exclusive design. It is ideal for SOHO - Small Office Home Office - environments thanks to excellent audio and video quality and the possibility to use PowerPoint presentations, which render distance collaboration even more effective.

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

Supports both 14-kHz (ITU and ISO) wideband audio codecs.

Multipoint Functionality

The embedded MCU (Multipoint Conferencing Unit) connects up to 4 sites with Continuous Presence in mixed mode ISDN, IP-H.323 and IP-SIP.

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

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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.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
- Data H.350
- LDAP
- 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 with sw option; 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)

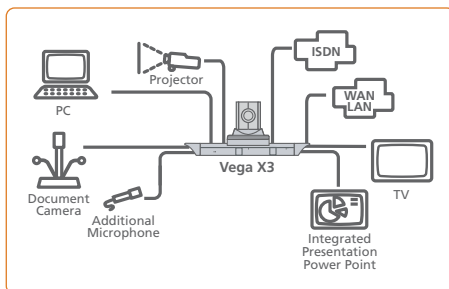
Audio

- | | | |
|-----------------|---------------|---------------|
| 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, 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 Composite (RCA)
XGA In 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 Line 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

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
3+1 participants @ 384 kbps
- Compatible with analogue and mobile networks
- Video coding H.261, H.263, H.263+
G.711, G.722, G.722.1, G.728
- Audio coding 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 1.8 A Max

Dimensions

- VEGA X3
Width 39 cm (15.3")
Height 18,5 cm (7.3")
Depth 20,5 cm (8")

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