

vega® X5

High-quality set-top



aethra®
keep connected™

Highest Quality

Crystal clear audio and superior video quality at 4 Mbps

Enhances Collaboration

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

Aethra Unified Communication solution

Its embedded MCU in conjunction with the Vega Desktop Solution Hydra extends Videoconferencing from traditional room-based end-points up to PCs



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

It is ideal for medium and large-sized videoconferencing sessions that require enhanced audio and video quality.

The integrated Multipoint Conferencing Unit (MCU) connects up to 9 sites in mixed mode (ISDN and IP), with convenient Dial-out and Dial-in (Meet Me) configuration.

Supports multiple connectivity

Available in several versions: for connections up to 768 kbps over ISDN BRI and 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.

Patented Voice Tracking and Wideband audio

Voice Tracking technology enables the camera to automatically track and frame the person who is speaking. The first system to support both 14-kHz (ITU and ISO) wideband audio codecs adopted in videoconferencing.

Desktop Connectivity available with Aethra X-line

The X-line's very powerful, high-quality embedded MCU, allows users to connect the Vega Desktop Solution Hydra to enable high-end interactive video and data collaboration sessions among traditional endpoints and PCs, wherever they are (home, office, "on your way to..").

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
• Audio	T.120, H.350
• Data	H.350
• LDAP	H.243, H.231
• MCU compatibility	H.243, H.231

Transmission

- Bit rate 56 kbps ÷ 768 kbps over ISDN BRI¹
56 kbps ÷ 2 Mbps over ISDN PRI^{1,2}
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
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
H.281 (H.320 - H.323)
- Remote camera control

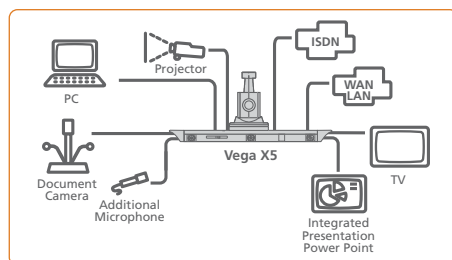
Audio

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

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
- Zoom 10.5x
- Min. Lux 1.5

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 X.21/V.35/RS366/RS449 or G.703 1/3/6 RJ-45 1 RJ-45 44 pin Hi/Den 1 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
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° Line RJ-11 6/6
Aux. mic. 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

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 up to 8 participants 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)
- Up to 6 PC connections using the embedded MCU (up to max 8 participants)

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

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