

vega® X7

High Definition Video Communication System



Quality, Flexibility, Next-generation Technology

Excellent audio and video quality contained in an elegantly designed system specifically created in a split version

Professional Interaction

The embedded MCU connects up to 9 sites simultaneously with Continuous Presence in mixed ISDN and IP mode

The Unified Communications Solution

Extends professional video communication to the PC, through connection via the Hydra desktop solution



Vega® X7 is a high-performance system at the cutting-edge of High Definition system technology that guarantees excellent audio and video quality. Created in a split version with separate set top and camera, it provides the maximum positioning flexibility. A professional communications tool, it's ideal for video conferencing sessions in medium and large conferencing rooms.

A Native High Definition System

HD is not just technology, but a new way of conceiving video, audio and data interactivity. Vega® X7 has been specifically developed and created by Aethra to provide a top-quality response to market requirements.

Multiple Network Connectivity

Vega® X7 is available in several versions: for connections up to 384 kbps (768 kbps with optional XLNA) over ISDN BRI and 4 Mbps over IP.

Simultaneous Dual-Stream Video

Convenient XGA inputs and outputs provide one-step PC plug-in for simultaneous dual-stream video and live PC presentation with enhanced images.

Desktop Connectivity

The powerful MCU embedded in the X-line systems allows connection with the Vega Desktop Solution Hydra, enabling high-end interactive multimedia sessions between traditional room-based endpoints and PCs.

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.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 H.350
- MCU compatibility H.243, H.231

Transmission

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

Video

- Frame rate 15 frames per second @ 56 kbps - 128 kbps
30 frames per second @ 168 kbps - 4 Mbps
- Fields 60 fields per second @ 384 kbps - 4 Mbps
720p 1280 x 720 pixels
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 Pod

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

External HD Camera

- Resolution up to 1920x1080 pixels
- Presets 122 presets
- H. angle of view 7 to 70 degrees
- PAN ± 100°
- TILT ± 25°
- Zoom 10.5x (optical)

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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 3 BRI with integrated channel aggregator 3 RJ-45
- Network Module: IDC type connector to connect the Xline Network Adapter
- ISDN 6 BRI with integrated channel aggregator 6 RJ-45 or 1 E1/T1 PRI with integrated channel aggregator 1 RJ-45 or Leased networks
X.21/V.35/RS366/RS449 44 pin Hi/Den
or G.703 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
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
2xHD High Definition Cameras
- Video outputs
Monitor 1 Composite (RCA)
S-video (Mini-DIN)
S-video (Mini-DIN)
with monitor detect
Monitor 2 Composite (RCA)
- Audio inputs
Aux Out Composite (RCA)
2xHD DVI-I
- Audio outputs
Connection Level Connector
1xPod mic. 360° Dig. 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)

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

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Interoperability

- Microsoft® Office Communicator 2007

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, 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
9 participants @ 256 kbps
7 participants @ 384 kbps
6 participants @ 512 kbps
5 participants @ 768 kbps
4 participants @ 1 Mbps
- Compatible with analog and mobile networks
- Video coding H.261, H.263, H.263+, H.263++, H.264
- Audio coding G.711, G.722, G.722.1, G.728, H.243
- Chair control
- Dial-In/Dial-Out capabilities
- Transcoding
- IP & ISDN Auto Downsampling
- 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)

Security

- 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 2.5 A Max

Dimensions

• VEGA X7			
Codec	Width	46 cm (18.11")	
	Height	6 cm (2.36")	
	Depth	23 cm (9.05")	
Camera	Width	15,3 cm (6.02")	
	Height	17,8 cm (7")	
	Depth	15,6 cm (6.14")	