vega® x3-s4

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-S4 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-S4

Technical Specifications (Code 790209632 NTSC - 790209626 PAL)

aethra®
keep connected...

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
• Audio	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)

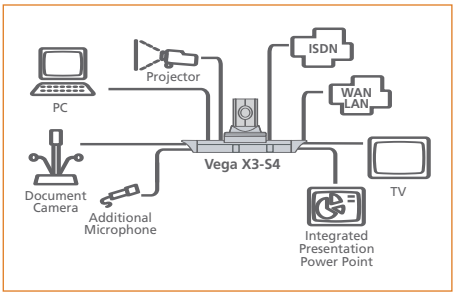
Audio

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	
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

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
• Chair control	H.243

- 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	
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-S4			
Width	16,5	cm	(6.5")
Height	14	cm	(5.5")
Depth	20.5	cm	(8")

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