

High-quality set-top

# VEGA<sup>®</sup> X5

#### Highest Quality

Crystal clear audio and superior video quality at 4 Mbps

#### Enhances Collaboration

Built-in MCU connects up to 8 sites with Continuous Presence and embedded PowerPoint<sup>®</sup> presentations

#### Convenient

Fully featured set-top solution with embedded XGA ports and support for 3 monitors



Vega<sup>®</sup> 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 8 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.

#### Easy to configure

Flexible, simple architecture enables easy re-configuration of the system. Ready to upgrade simply by adding different cards. Change the channel aggregator card and upgrade from BRI to PRI in one easy step!

#### Voice Tracking patented

Voice Tracking technology enables the camera to automatically track and frame the person who is speaking.

#### Customizable Graphic User Interface

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

## Technical Specifications

### Supported Standards

• ITU-T H.320	ISDN, leased networks
• ITU-T H.323	IP networks
• IETF-SIP (RFC3261)	IP networks
• PPoE	
• Video	H.261, H.263++, H.264 H.239, H.241
• Audio	G.711, G.728, G.722, G.722.1, MPEG 4 AAC-LD
• Data	T.120
• LDAP	H.350
• MCU compatibility	H.243, H.231

### Transmission

- Bit rate 56 kbps ÷ 768 kbps over ISDN BRI
  - 56 kbps ÷ 2 Mbps over ISDN PRI\*\*
  - 64 kbps ÷ 4 Mbps over IP (H323/SIP)
  - Asymmetric rates
  - 56 kbps ÷ 2 Mbps over V.35/Leased
- \*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
- 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)
  - Up to 1024 x 768 over XGA in H.263
- Remote camera control
  - H.281 (H.320)
  - H.282/H.283 (H.323)

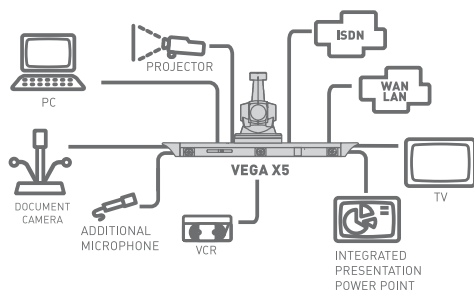
### Audio

Audio	Band	Bit rate
G.711	300 ÷ 3400 Hz	56 kbps
G.728	50 ÷ 3400 Hz	16 kbps
G.722	50 ÷ 7000 Hz	48/56 kbps
G.722.1	50 ÷ 7000 Hz	24/32 kbps
AAC-LD	50 ÷ 14000 Hz	48/56/64 kbps

- Echo cancellation
  - Adaptive post filtering
  - Automatic Gain Control (AGC)
  - Automatic Noise Suppression
- Full-duplex

### Audio Tracking

- Tracking Enhanced Voice Tracking
- Coverage max. 6 m, recommended 3 m
- Location ±60° horizontal, ±25° vertical



### 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
- H. angle of view 6.6 to 65 degrees
- Zoom 40x (10x optical + 4x digital)

### Supported Monitor

- Format PAL or NTSC or VGA
- Single, dual monitor, VGA
- PIP function
- 16:9 support
- Dual Monitor Emulation

### Network Interfaces

- Basic version
  - ISDN 3 BRI with integrated channel aggregator 3 RJ-45
  - Ethernet 2-Port 10/100BASE-T full-duplex with integrated switch Ethernet 2 RJ-45
- Optional
  - ISDN 3 BRI with integrated channel aggregator or 1 E1/T1 PRI with integrated channel aggregator or Leased networks 3 RJ-45
  - X.21/V.35/RS366/RS449 1 RJ-45
  - or G.703 44 pin Hi/Den 1 RJ-45

### Audio/Video Interfaces

- Video inputs
  - Main camera Integrated Y/C, not accessible
  - VCR Composite (RCA)
  - Doc. Cam. 1 S-video (Mini-DIN)
  - Doc. Cam. 2 S-video (Mini-DIN)
  - Doc. Cam. 3 Composite (RCA)
  - XGA In DB 15 Hi/Den
- Video outputs
  - Monitor 1 Composite (RCA)
  - Monitor 2 S-video (Mini-DIN)
  - S-video (Mini-DIN) with monitor detect
  - VCR Composite (RCA)
  - XGA Out DB 15 Hi/Den
- Audio inputs
  - Connection 2xPod mic. 360°
  - Aux. mic. Dig.
  - Audio In Mic
  - VCR Line
- Audio outputs
  - Connection Level Connector
  - Monitor 1 Line 2 RCA (L/R)
  - VCR 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

### User Interface

- Multilingual on-screen graphic user interface
- User selectable languages: Italian, English, French, Spanish, German, Portuguese, Norwegian, Swedish, Russian, Czechoslovakian, Hungarian, Chinese, Japanese, Korean
- Infrared remote control for full function control
- Contextual help
- Diagnostics and management functions
- Call progress monitoring
- Supports AMX™ or Crestron™
- Customizable Graphic User Interface

### Multipoint Function

- Integrated MCU
  - H.320, H.323 and SIP mixed mode @256 kbps
  - 8 participants @384 kbps
  - 6 participants @512 kbps
  - 5 participants @768 kbps
  - 4 participants @1 Mbps
  - 3 participants @1 Mbps
- Compatible with analog 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

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

### AETHRA® SpA

via Matteo Ricci, 10  
60020 Ancona (Italy)  
Telephone +39.071.218981  
Fax +39.071.887077  
Video 1 +39.071.2189160  
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