High-quality set-top

VEGA® X5

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

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

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.

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!

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.

Customizable Graphic User Interface
The user is able to choose layouts and colours from a variety of alternatives.

VEGA® X5

Technical Specifications

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
- Audio — G.711, G.728, G.722, G.722.1 G.722.1 Annex C (v11), MPEG4 AAC-LD
- Data — T.120
- 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)
  64 kbps ÷ 4 Mbps over IP (H323/SIP) option
  Asymmetric rates
  56 kbps ÷ 2 Mbps over V.35/Leased[2]

[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)
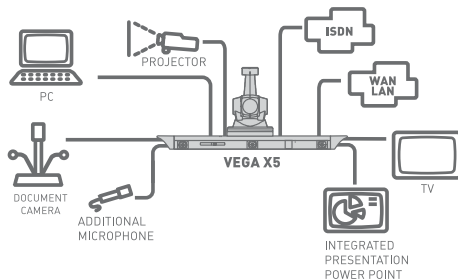- Simultaneous video motion coding and PC presentations from the XGA input

Video
- Frame rate
  15 frames per second @ 56 kbps -128 kbps
  30 frames per second @ 168 kbps - 448 kbps
  60 fields per second @ 512 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)
  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

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 — 6.6 to 65 degrees
- Zoom — 40x (10x optical + 4x digital)

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 — 1/3/6 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

Network Features
- Differentiated Service (DIFFSERV), IP Precedence, IP Type of Service (ToS), Auto Gatekeeper Discovery, Clever Packets Management (AeCPM)

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°	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)

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
- 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 partecipants up to 9 participants (v11)
- Compatible with analog and mobile networks
- Video coding — H.261, H.263, H.263+, H.263++, H.264 (v11)
- 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
- NIST (National Instute 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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