

Polycom[®] VSX[™] 7000e

Frequently Asked Questions

What comes with the VSX 7000e?

The VSX 7000e ships with the VSX 7000e codec, Polycom PowerCam[™], VSX microphone array and VSX remote control.

What packaged solutions are available with the VSX 7000e?

VSX 7800e Presenter MP – Includes VSX 7000e, PowerCam[™] camera, ImageShare[™] II, People+Content[™] IP, 4-way MPPlus

VSX 7400e Presenter – Includes VSX 7000e, PowerCam camera, ImageShare II, People+Content IP

VSX 7000e – Includes VSX 7000e, PowerCam camera

Note: All bundles can ship with the SoundStation VTX 1000[®] conference phone in place of the VSX microphone array

What options are available for the VSX 7000e?

Any option listed below can be purchased with the VSX 7000e. There are also packaged solutions of the VSX 7000e for easier ordering ability.

Quad BRI Module – This module is inserted into the back of the codec and provides connectivity for up to (4) BRI lines.

PRI Module – This module is inserted into the back of the codec and provides ISDN connectivity up to 2 Mbps bandwidth.

Serial Module – This module is inserted into the back of the codec and provides support for V.35, RS229 and RS530 connecting up to 2mbps. Need to order appropriate cable separately.

SoundStation VTX 1000 – Attaching a SoundStation VTX 1000 conference phone enables dialing directly from the phone pad, as

well as utilizes the SoundStation VTX 1000 as the microphone, reducing clutter on the table. Hangup, redial and muting are also available from the SoundStation VTX 1000 interface. The SoundStation VTX 1000 has a 20 foot radius and is embedded with Polycom's StereoSurround[™] capability.

VSX People+Content Package – Has 3 components, the Polycom ImageShare[™] II table top connection device, the VGA encoder key which activates the direct VGA capability to connect a laptop/PC to the VSX 7000e for data sharing, and People+Content IP for sharing data during a conference cable-free.

People+Content[™] IP – This is a software key that activates People+Content IP on the VSX 7000e. This allows you to show content in a video conference over an IP network connection. Download a simple Polycom application and convert your laptop/PC into a presentation device for video conferencing. Your Content choices are unlimited – present anything that is running on your PC and all participants during a video conference can see the material.

MPPlus Software License – When installed, this license allows the user to have up to a total of (4) sites (3 plus the VSX 7000e) connected during a single video conference.

Microphone Kit – Includes (1) microphone array and (1) 10 foot conference link cable.

Ceiling Microphone Array – A Polycom microphone array unobtrusively mounted on conference room ceiling, providing 360° coverage. Handles rooms up to 2100 square feet.

Peripheral Bundles – Cart and display solutions, including NTSC/PAL displays as well as LCD/plasma displays.

What features are new in VSX Release 8.5?

	V500	*VSX 3000	VSX 5000	*VSX 6000	VSX 7000s	VSX 7000e	VSX 8000
H.460 NAT/Firewall	•	•	•	•	•	•	•
G.722.1 Annex C	•	•	•	•	•	•	•
Configurable MTU size	•	•	•	•	•	•	•
Hungarian / Polish Lang.	•	•	•	•	•	•	•
DBC-2 error concealment	•	•	•	•	•	•	•
Microsoft LCS integr.	•	•	•	•	•	•	•
Basic Mode in UI	•	•	•	•	•	•	•
FIPS 140-2 level 1**		•	•		•	•	•
Security Mode		•	•	•	•	•	•
Secure Web		•	•	•	•	•	•
Secure Telnet		•	•	•	•	•	•
Secure FTP		•	•	•	•	•	•
Multiple camera support					•	•	•

*Only the refreshed versions of the VSX 3000 and VSX 6000 receive FIPS 140-2 support, security mode, secure web, secure telnet and secure FTP. The VSX 6000 is available only in the EMEA and APAC regions.

**Currently all affected systems are on Pre-Validation List awaiting compliance.

For more information on the features included in VSX Release 8.5, see the VSX Release 8.5 FAQ.

Why is the camera split from the base unit?

To provide more flexibility in configuring the system. Now, users may place the codec in a cart, or in a rack - whichever best suits their room needs.

What are the main differences between the VSX 7000s and VSX 7000e?

While both the VSX 7000s and VSX 7000e are mainstream products, there are some key differences that will benefit different vertical segments and different types of meeting environments.

The differences are:

	VSX 7000s	VSX 7000e
Form Factor	Settop (all in one)	Split (codec + camera)
Subwoofer	Yes	No
POTS connection	No	Yes
RS-232 ports	1	2
Direct PC connections for data sharing	No	Yes

What cables are included with a base system and what are the lengths?

Following is a list of the basic cables included with each system.

Cables Provided with VSX 7000e

Cable Type	Length Provided
Conference Link to microphone	30 feet
Power Cable	10 feet
RS232 (8 pin DIN + DB9)	10 feet
(1) S-Video cable	25 feet
RJ45 Cat5 network cable	12 feet

What is the POTS connection for?

To connect a voice-only caller (cell phone or landline) to a videoconference. Simply connect a phone line to the VSX 7000e, and the caller can connect to the system by dialing that phone number. Or the VSX 7000e can call out to the POTS participant. May not be available in some countries.

What is Polycom StereoSurround and what is the benefit to the end user?

Polycom StereoSurround is a unique technology that uses two audio channels to provide stereo sound in a videoconference. Both audio channels use Siren 14 audio, so with Polycom StereoSurround the customer gets the benefit of 2 channels of Siren 14 audio. In a conference with StereoSurround enabled, the sound comes from either the left or right speaker, depending on where the person talking is located. If they are walking from one side of the room to the other, the audio will switch from one speaker to the other. This gives a very life-like audio quality to the conference and makes it just like being in the same room with all the conference participants!

Note that StereoSurround can only be enabled if all sites participating in the conference have Polycom StereoSurround on their systems and enabled. StereoSurround ships with all VSX series

Can external speakers be used with the system?

Yes. Simply connect the line out connections on the back of the unit to external speakers.

What is the significance of the soft pads on

the bottom of the VSX microphone arrays?

The pads serve as shock absorbers that isolate the microphone from tabletop vibrations. This means that tapping pencils or fingers or soft impacts to the tabletop will not be heard through the microphone.

What cable lengths can be used with the VSX microphone array?

The basic unit ships with one microphone and a 30-foot conference link cable. An optional 50' cable is available for the first connection to the codec.

How many VSX microphone arrays can be connected at one time?

Up to (3) VSX microphone arrays can be connected at once. Additional VSX microphone array kits can be purchased that contain (1) VSX microphone array and (1) 10-foot conference link cable. An additional 30' cable is available for the connection between the VSX microphone arrays.

What are the specifications of the Polycom PowerCam?

Presets	100 local / 17 far end
Image Sensor	1/4" Super HAD CCD
Tilt Range	±25°
Pan Range	±100°
Horizontal field of view	65°
Total field of view	265°
Horizontal resolution	470 HTVL
Zoom Range	12x
Illumination	3.5 lx (F1.8)
Auto white balance	Yes
Auto focusing	Yes

What cameras are supported with the VSX 7000e?

Cameras supported on the VSX 7000e include:

- Polycom PowerCam
- Polycom PowerCam Plus
- Sony EVI-D30/EVI-D31
- Sony EVI-D70, native mode **(new!)**
- Sony EVI-D100/EVI-D100P
- Sony BRC-300 **(new!)**

Does the system allow users to program presets for the camera?

Yes. The system can accept up to (100) user-defined preset positions for the local site and (17) user-defined preset positions for the far end camera.

What algorithms are used on the VSX 7000e and when are they used?

The VSX 7000e (and all VSX products) can use the following video algorithms: H.263+, H.263++, Pro-Motion H.263. If both systems support all these algorithms, the VSX will choose the optimal algorithm for whatever data rate is being used. H.264 is the newest, and most optimal algorithm for data rates from 128Kbps - 768Kbps. Data rates above 768kbps will default to H.263 (used along with Pro-Motion™). H.261 will only be used if the system on the far side does not support H.263 or H.264

What is Pro-Motion and what is the benefit to the end user?

Pro-Motion is a technology that Polycom VSX systems employ to improve the picture quality and resolution at data rates above 512Kbps. The Pro-Motion technology provides for double the line resolution of standard CIF video images; this yields an image with twice the line resolution of a normal image.

If you combine the answers to question the above two questions, you will see that Polycom delivers the best video quality available, no matter what the defaulted data rate is. At 768kbps and below, you will get the excellent video quality provided by H.264. At data rates higher than 768kbps, you will get the excellent video quality provided by Pro-Motion (using H.263).

What is meant by Single Monitor XGA support?

VSX 7000e supports single XGA monitor configurations. This means that People+Content can be viewed on a single monitor, either in Dual Monitor Emulation or PIP. The maximum resolution supported is 1024 x 768 at 60 Hz.

Note: In this configuration, use of a second monitor is disabled.

What is Baseline Mode?

Baseline mode is a setting that any can be made on any VSX that sets the system to the lowest common denominator, thus virtually ensuring interoperability with legacy systems or other vendors' video conferencing systems. Baseline mode is H.261 for video and G.711 for audio. There is no data sharing in baseline mode. The setting is turned on or off via the Web interface, FTP and the on-screen user interface and is recommended only for VSX systems that are frequently in calls with legacy systems.

Is there flexibility in how participants can be viewed while in a multipoint call?

Yes. There are (4) settings to choose from in the user interface when using the internal multipoint capabilities. Note that, when paired with a Polycom MGC™ product, the layout options are numerous.

- Auto – Will automatically switch to a single presenter if that presenter speaks for (15) seconds or greater.
- Discussion mode – Displays up to (4) quadrants on a single screen, seen by both far and near-end participants.
- Presentation mode – Allows the presenter to see up to (4) participants on a single screen, while the participants see only the presenter.
- In Full Screen mode – The speaker is seen full screen by both far and near-end participants.

What type of audio integration is available with this product?

There are several ways to add an audio participant to a video call.

- SoundStation VTX 1000 – Polycom's wideband conference phone can be connected to the VSX 7000e via the Conference Link cable and can be used to add audio participants to a video call.
- POTS – The POTS port on the back of the VSX 7000e allows the user to directly connect an analog phone line into the back of the codec and use that connection to add an audio participant to the video call.
- Voice over ISDN – With a QBRI or PRI module installed, the VSX 7000e can take advantage of a single ISDN channel to

make an audio call, adding that participant to the video call.

- VoIP voice calls (H.323) – Voice over IP phones, such as Polycom's SoundStation® IP 3000 are supported.

Does this product support API commands?

Yes. The Integrator's Reference Manual for the VSX Series documents over 200 supported commands designed to enable flexibility and customization in integrated rooms. These commands are accepted either through a Serial port connection, through a TelNet interface, or via an IR interface with the new software.

Where can I find pin-outs for inputs and outputs?

The Integrator's Reference Manual for the VSX Series includes back panel drawings and specifications for all input and output connectors.

What are the warranty and software upgrade terms?

The Polycom VSX 7000e has a one year hardware warranty and the standard Polycom 90 day software warranty. This includes:

- 90 days of software updates and upgrades
- One year of return-to-factory hardware support

Enhanced service packages are also available at time of purchase. Customers are encouraged to renew or upgrade their service package at the end of the warranty period, if not before. To ensure timely notice of the availability of new software updates and upgrades, customers should register all products under the "Register Your Product" link at www.polycom.com. More information on Polycom Global Services Programs is available in the VSX 7000e Sales Services Guide.