



## Aastra ViPr™

» Clearly the choice for the most natural conversations and most productive meetings

Easy to use, standards-based, and available in configurations that work from the executive suite to large conference halls, the Aastra ViPr™ seamlessly integrates superior quality, real-time video telephony with conferencing and presentation tools.

### Advancing virtual presence communications

The definitive visual communications system, Aastra ViPr™ offers dramatic "virtual presence" functionality for secure video interaction between two or more geographically dispersed parties. Mature and based on the H.264 standard, ViPr™ raises the bar for high-quality video telephony while maintaining full interoperability with standard telephone systems and legacy video conferencing.

If your operation benefits from collaboration between remote parties, a ViPr™ "call" is as good as a face-to-face meeting without the travel expense. And ViPr's simple, intuitive user interface has been validated during human factors testing and through real-world experience. First-time users establish multiple-party video conferences within a few minutes with minimal training.

A Virtual Share package of optional collaboration tools allows ViPr™ conferees to share documents and applications, including electronic white boarding via Microsoft NetMeeting or Microsoft Office Live Meeting. Other optional components enable conferees to view live broadcast TV, prerecorded video, or CCTV feeds during a ViPr™ call.



Aastra ViPr group conferencing

ViPr™ uses H.264 video encoding, a low-bandwidth encoder that is optimized for low-delay, real-time video communications. What that means to you: the highest quality video at any bandwidth.

#### Key benefits

- Broadcast-quality video and clear channel audio facilitate natural conversations, with users completely unaware of the enabling technology
- Available in a desktop-only configuration, conference room configurations, or a fully compatible combination
- Provides one-on-one and multi-party conferencing services, ad-hoc meeting capabilities, and fully integrated telephony services over highly reliable networks
- Encrypts all voice and video channels for secure end to end conferencing
- Features a SIP-based VoIP architecture for multi-site communications applications
- Offers easy-to-use touchscreen operation with an intuitive graphical user interface
- Requires very little training to operate
- Provides always-on availability for event-driven collaboration, a major advantage over scheduling a video conferencing room
- Integrates with existing private branch exchanges and the public switched telephone network
- Interoperates with traditional H.323- and H.320-based video conferencing systems
- Real-time briefings/situational decision making enhanced with collaboration and presentation media
- Real-time emergency response and preparedness communications
- International, national, statewide and countywide meetings
- Training
- Distance learning
- Real-time telemedicine
- Distributed teamwork

Each ViPr™ user can connect up to 100 parties. And a variety of endpoint configurations makes it easy to choose the ViPr™ system that is the best fit for any collaborative environment:

- 4000 Series personal (desktop) systems
  - VMC4000: Aastra ViPr
  - VMC4400: Aastra ViPr™ + Virtual Share + extended I/O
- 5000 Series rack-mounted group systems
  - VMC5400: Aastra ViPr™ + Virtual Share + extended I/O
- 6000 Series table-mounted group systems
  - VMC6400: Aastra ViPr™ + Virtual Share + extended I/O

The most effective network appliance available to facilitate multi-media communications to locations around the world, ViPr™ can be used for a multitude of applications, including:



ViPr™ Desktop Terminal graphical user interface

### Network connectivity

The Aastra ViPr™ operates over IP/Ethernet networks. IEEE 802.1p prioritization and DiffServ prioritize ViPr™ traffic and guarantee Quality of Service (QoS). ViPr™ can be configured to use multicast IP traffic to minimize and manage bandwidth for multi-party conferencing and video distribution or to use unicast IP traffic in applications conferencing a smaller number of participants.

### ViPr™ Application Server

A ViPr™ Application Server, the ViPr™ “command center,” uses Session Initiation Protocol (SIP) to establish, modify, and clear multiple-stream multimedia sessions. The server is also the central storage device for users’ terminal settings and address books, which allows users to access their preferences from any ViPr™ endpoint. With the ViPr™ Application Server, 25 users can log in to the system at the same time. The ViPr™ Application Server, also available in a High-Availability version supports up to 200 simultaneous users.

### 4000 Series personal systems

Aastra ViPr™ endpoints for executive offices combine the most popular features (hold, transfer, speed dial, conference, call forwarding) of an office telephone with real-time, face-to-face video for a true virtual presence experience.

The 17-inch (diagonal) touchscreen with graphical user interface displays full-motion, full-color video with 1280x768 (16:9) resolution and a wide viewing angle. To save desktop space, the screen may also function as a PC monitor or the ViPr™ can access a remote PC using Remote Desktop.

ViPr’s high-fidelity audio system delivers crystal clear voice communications. An advanced stereo acoustic echo canceller (AEC) and noise reduction filters enable users to speak naturally, even in noisy settings. And an integrated, hearing-aid compatible handset (or optional stereo headset) disables the microphone array and speakers for privacy.

And with ViPr™ there is no delay or lost audio when multiple parties speak at once. Compared to conventional video conferencing that tends to degrade into walkie talkie-like exchanges, the ViPr™ 4000 Series Media Center facilitates truly interactive discussions. With ViPr™ video and audio, conferees interact as if they were in the same room.

### 5000 and 6000 Series group systems

To address various requirements for conference-room based systems, Aastra ViPr™ is available in two endpoint configurations:

- The 5000 Series, a traditional, affordable 2U high codec “box” that is rack-mounted and can be operated with a wireless mouse or interfaced to a room-based control system.
- The 6000 Series, a modified version of the 4000 Series personal system that can be installed in a conference room (or mounted into a conference table). The system is controlled with the ViPr™ touchscreen or with a wireless mouse.

Aastra ViPr™ offer groups the same full-motion, full-color video and clear-channel audio quality as the personal system, but is designed for meeting rooms, classrooms, and conference halls. An enhanced call screen format displays two large, wide images — while simultaneously displaying 8 thumbnail images — so even far-end conferees are visible on screen.



Aastra ViPr™ 6000



Aastra ViPr™ 5000

A complete group solution includes Aastra ViPr™ 5000 or 6000 Series endpoints, a ViPr™ Application Server, and peripherals including:

- A 16:9 display device (plasma or LCD, or an LCD projector with screen)
- A pan-tilt-zoom camera that allows users to quickly and easily adjust the local camera position
- External speakers
- Audio conferencing system (with acoustic echo cancellation)
- Microphones

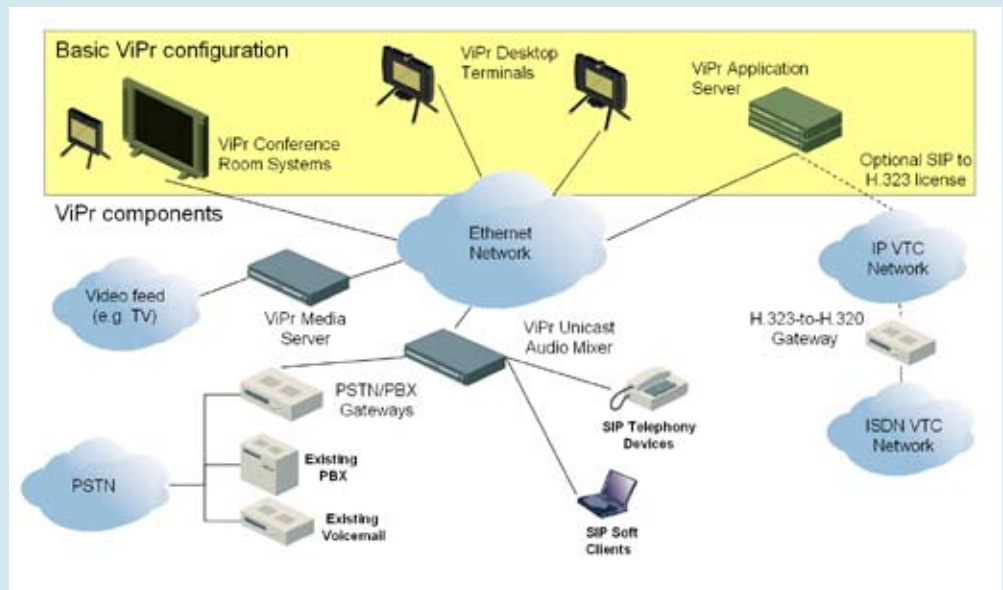
Please contact your Aastra sales representative for the latest list of compatible peripherals.

#### **ViPr™ Virtual Share collaboration tools**

No matter what endpoint configurations you choose, Aastra makes it easy to share documents and transfer files with the optional ViPr™ Virtual Share package of collaboration and productivity tools:

- With ViPr™ docShare, a ViPr™ user can directly connect a ViPr™ endpoint with a PC to share PowerPoint presentations, Microsoft Word documents, digital pictures, and Microsoft Excel spreadsheets with other ViPr™ conferees.
- Users with ViPr™ appShare can automatically launch Microsoft NetMeeting or Microsoft Office Live Meeting, real-time conferencing and collaboration applications that allow conferees to transfer files, conduct whiteboard sessions, text message, and more during a ViPr™ conference.

To save desktop real estate, any ViPr™ user with the Virtual Share collaboration package can use a Aastra ViPr™ 4400 system as their PC monitor.



Components of Aastra ViPr™ solution offering

### The most natural conversations and the most productive meetings

With the highest quality video and audio at bandwidths ranging from 128 Kbps to 3 Mbps, personal and group configurations, and a Virtual Share package of collaboration and productivity tools, the Aastra ViPr™ is far superior to (and more flexible than) conventional video conferencing. To see the difference that the always-on, easy-to-use ViPr™ can make for your organization, please contact your Aastra sales representative, call 1-866-AASTRA, or visit [www.Aastra.com](http://www.Aastra.com).

## What you need for ViPr™ conferencing

- IP/Ethernet network
- Your choice of Aastra ViPr™ personal or group endpoints (unlike with other systems, no multi-conference units, or MCUs, are required with ViPr)
- Display screens, cameras, microphones, and speakers (for group systems)
- Your choice: ViPr™ Application Server or High-Availability ViPr™ Application Server

### Available ViPr™ options

- Virtual Share collaboration package (order the Aastra ViPr™ in the x400 configuration)
- Media Server (to display live TV, CCTV camera feeds or other video sources)
- Unicast Audio Mixer and telephony gateways (allow PSTN or VoIP devices to be used)
- SIP <-> H.323 and H.323 <-> H.323 gateways (to interoperate with legacy video conferencing equipment)

Please see the ViPr™ Component Options Data Sheet for more information about available ViPr™ options.



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# Key features

## Video

- Displays up to 15 remote-party conference participants in a potential 100-way conference
- Support for live TV broadcasts (e.g., CNN, Fox News, or MSNBC) to the desktop
- Secure end to end conferencing using AES-128 encryption of all voice and video channels (VMCx400 systems only with purchase of additional AES license)
- Participants rendered at 30 frames per second of VGA image resolution
- Low-delay (<100 ms) H.264 encoding with H.261 and H.263 compatibility options
- Self view
- Support for dual display with PC video pass-through (Group systems only)
- English, Japanese, and Simplified Chinese language support

## Video viewer

- Displays video channels broadcast from the optional ViPr™ Media Server (see the ViPr™ Component Options Data Sheet for additional information).
  - Live TV/cable broadcasts
  - VCR/DVD viewing
  - Security and public camera feeds
  - Presentations
  - Any other video source
- Supports simultaneous viewing of up to three channels (when not in a conference)
- Available channels are displayed for user selection
- Users can view video while on a call
- Features independent audio volume/mute for each video channel

## Audio

- Hands-free operation
- Full-duplex audio
- Stereo acoustic echo canceller (AEC), ViPr™ 4000 Series personal systems only
- Automatic gain control (AGC)
- Wideband audio — 16-bit, 16 KHz uncompressed pulse code modulation with G.728, G.722, G.721 and G.711 compatibility options
- High-fidelity stereo output with volume control
- PC audio pass-through, ViPr™ 4000 Series personal systems only
- Microphone/speaker mute

## Telephone features

- On-screen touch dial pad and keyboard
- Caller ID
- Hold
- Call transfer
- Conference

- Speed dial
- Redial/call history
- Call forwarding
- Do not disturb

## User-based calling

- Login is via Windows/Kerberos user ID and password
- Phone “personality” moves with login
  - When a user logs in to a ViPr™ at a remote site, all personalized settings appear
  - Contacts, speed dials, and ring preferences move with the user
  - Calls for a specific user automatically route to the ViPr™ station where the user is logged in
  - ViPr™ features automatic “find me/follow me” technology
- SIP uniform resource identifiers (URIs) are used as “phone numbers” and resemble e-mail addresses (e.g., `vipr.user@sip.Aastra.com`)
- PBX extensions (with optional analog or digital gateways) are automatically forwarded to the ViPr™ station where the user is logged in

## Presence services

- Users are able to know before a call is placed whether the called party is likely to answer
- SIP for Instant Messaging and Presence Levering Extensions (SIMPLE) presence client
- Full state tracking (available, busy, do not disturb, out of office)
- Allows customized call-routing rules for each presence state
- Contact-based filtering privacy controls
- Contact database
- Full name, organization, address
- Multiple phone numbers (SIP URIs and numeric)
- One-touch dialing to any contact
- Presence information is shown for all subscribed contacts
- User contacts are organized by folder/categories
- Search and sort-by features
- Users can search corporate directories via Lightweight Directory Access Protocol (LDAP)

## Call history features

- Four call categories: incoming, outgoing, missed, and frequently dialed
- Automatic storage of the 20 most recent calls in each category
- One-touch redial of any entry
- Caller ID display
- Function to save any entry as a contact in the database
- ViPr™ call session logs are available for call tracking and management purposes

## Standards

- ViPr™ products are RFC 3261-compliant
- Supports the ability to make calls to/from standard SIP phones and gateways
- IPv6

## Ordering information

For ordering information about ViPr™ component options, please see the ViPr™ Component Options data sheet.

### Personal Systems

VMC-4000-E	Aastra ViPr™ 4000, desktop, 10/100Base-T interface
VMC-4400-E	Aastra ViPr™ 4400, desktop + Virtual Share + Ext I/O, 10/100Base-T interface

### Group Systems

VMC-5400-E	Aastra ViPr™ 5400, 2U codec + Virtual Share + Ext I/O, 10/100Base-T interface
VMC-6400-E	Aastra ViPr™ 6400, table mount + Virtual Share + Ext I/O, 10/100Base-T interface

### ViPr™ Application Server

#### Hardware

VSIPS-1000-E	10/100Base-T Ethernet (RJ-45) platform; minimum purchase of a 5-user software license required
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#### User licenses

VSIPS-5-A	ViPr™ Application Server license; supports up to 5 users logged in simultaneously; only available with initial purchase
VSIPS-25-A	ViPr™ Application Server license; supports up to 25 users logged in simultaneously; only available with initial purchase
VSIPS-50-A	ViPr™ Application Server license; supports up to 50 users logged in simultaneously; only available with initial purchase
VSIPS-100-A	ViPr™ Application Server license; supports up to 100 users logged in simultaneously; only available with initial purchase
VSIPS-200-A	ViPr™ Application Server license; supports up to 200 users logged in simultaneously; only available with initial purchase
VSIPS-UPGRADE1-A	ViPr™ Application Server license upgrade; increases maximum number of simultaneous users from 5 to 25
VSIPS-UPGRADE2-A	ViPr™ Application Server license upgrade; increases maximum number of simultaneous users from 26 to 50
VSIPS-UPGRADE3-A	ViPr™ Application Server license upgrade; increases maximum number of simultaneous users from 51 to 100
VSIPS-UPGRADE4-A	ViPr™ Application Server license upgrade; increases maximum number of simultaneous users from 101 to 200

### High-Availability ViPr™ Application Server

#### Hardware

VSIPS-2000-E	10/100Base-T Ethernet platform (RJ-45); minimum purchase of a 5-user software license required
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#### User licenses

HA-VSIPS-5-A	High-Availability ViPr™ Application Server license; supports up to 5 users logged in simultaneously; only available with initial purchase
HA-VSIPS-25-A	High-Availability ViPr™ Application Server license; supports up to 25 users logged in simultaneously; only available with initial purchase
HA-VSIPS-50-A	High-Availability ViPr™ Application Server license; supports up to 50 users logged in simultaneously; only available with initial purchase
HA-VSIPS-100-A	High-Availability ViPr™ Application Server license; supports up to 100 users logged in simultaneously; only available with initial purchase
HA-VSIPS-200-A	High-Availability ViPr™ Application Server license; supports up to 200 users logged in simultaneously; only available with initial purchase
HA-VSIPS-UPGRADE1-A	High-Availability ViPr™ Application Server license upgrade; increases maximum number of simultaneous users from 5 to 25
HA-VSIPS-UPGRADE2-A	High-Availability ViPr™ Application Server license upgrade; increases maximum number of simultaneous users from 25 to 50
HA-VSIPS-UPGRADE3-A	High-Availability ViPr™ Application Server license upgrade; increases maximum number of simultaneous users from 50 to 100
HA-VSIPS-UPGRADE4-A	High-Availability ViPr™ Application Server license upgrade; increases maximum number of simultaneous users from 100 to 200

