

PRODUCT OVERVIEW

VISION IP Video Phone is an advanced VoIP and Video phone designed to meet the growing communication needs of consumers and businesses. It offers complete set of IP Centrex/PBX features and advanced video conferencing capabilities for more complete communication experience. Additionally, VISION IP Video Phone offers a number of value added features such as voicemail with local message storage, chat, email, news, local weather information, and many more.

Color TFT LCD Display

VISION IP Video Phone offers a color TFT LCD display which provides users with a feature-rich phone management interface. The LCD display can be also used for Video-on-Demand content presentation such as video streaming, video training, video conferencing, video telephony, video training, and video information sharing.

Four VoIP Lines and Advanced SIP Support

VISION IP Video Phone supports up to four VoIP lines, each with a standalone IP Centrex/PBX functionality. The IP Video Phone also offers advanced SIP support and can seamlessly interoperate with any SIP Registrar, Proxy or Outbound Proxy server.

IPTV and Video-on-Demand Support

VISION IP Video Phone can deliver high quality video streams including online TV (IPTV) and Video-on-Demand directly on its large LCD screen or on a connected TV screen. The device supports the most recent MPEG4 compression technology which enables it to deliver optimal video quality even in networks with limited bandwidth. All video streams are encrypted for privacy and copyright protection.

Digital Music and Internet Radio Delivery

In addition to video capabilities, VISION IP Video Phone can also receive and reproduce streaming audio content, enabling users to enjoy digital music and Internet radio. VISION IP Video Phone supports high compression MP3 and AAC algorithms for maximum quality of the delivered audio streams.

Video Conferencing H.263 Support

VISION IP Video Phone features advanced Video Conferencing capabilities which enable subscribers to conduct high-quality video conversations with friends and family. To initiate a video conversation, subscribers simply dial the phone number of another VISION Video Phone subscriber and enter the video conferencing mode which utilizes the H.263 standard.

Standalone PBX/IP Centrex Functionality

VISION IP Video Phone fully supports IP Centrex/PBX features without the need to interact with a central server (i.e. such features are supported internally). The device offers DID, Caller ID, Speed 2-digit Dialing, Anonymous Call Rejection, Call Forward, Call Return, 3-way Conferencing and many other IP Centrex features. The IP Video Phone can be used with any type of SIP Proxy to support Class 5 switching.

Integrated Voicemail System with Unified Messaging

VISION IP Video Phone comes with an integrated voicemail system which can accept and record up to 80 calls/messages. Unlike traditional PBX systems which store voicemails in a central server, VISION IP Video Phone stores messages locally and can make them available to users even in cases when the service provider's network is unavailable. The IP Phone supports advanced Voicemail menu system to guide callers during the process of leaving a voicemail, and to allow remote retrieval and administration of voicemail messages.

Peer Auto Discovery

VISION IP Video Phone automatically discovers its peers located within the same local area network (LAN). Such functionality allows LAN users to talk directly to each other without the need to use third party servers such as Registrars, Proxies, or Gateways.



The Ultimate Viewing Experience

IP Video



Key Features

- Large Color LCD Display
- Four VoIP Lines and Advanced SIP Support
- IPTV and Video-on-Demand Support
- Digital Music and Internet Radio Delivery
- Video Conferencing H263 Support
- Standalone PBX Functionality
- Integrated Voicemail System with unified Messaging
- Peer Auto Discovery
- Automated device Provisioning
- Multiple Call Routes and Route Failover
- Calling Card IVR Support

Features

Audio and Video Features

- Color TFT LCD Display
- IPTV Streaming Support
- H.263 Videoconferencing Support
- Video on Demand (VOD) Support
- Pay-per-View (PPV) Support
- Digital Audio Streaming (Online Radio)
- Picture Slide Show Support
- Content Library Support for Remote PC
- Low Bit Rates Support
- Interface to Local PC Content

Value-Added Features

- Chat Client Compatible with ICQ, AOL, and MSN
- Email Reader
- News Reader
- Weather Interface
- Calculator
- Currency Converter

VoIP Telephony Features

- Four VoIP Phone Lines
- SIP Protocol with NAT Traversal
- Peer Auto Discovery
- Standalone IP Centrex/PBX Functionality
- Call Waiting, Call Forward, Call Hunting
- Automated Call Forwarding to Multiple Numbers
- Advanced IVR Support and Management
- Auto Attendant Support
- Voice Encryption
- Wake-Up Phone Service

Voicemail (IVR) Features

- Calling Card IVR Support
- Up to 80 Messages Stored Locally
- IVR System Management
- Voicemail Auto Attendant
- Voicemail to Email Support
- Voicemail HTTP Download
- Unified Messaging
- Voicemail Notification
- Remote HTTP Web Management

Provisioning, Administration, and Maintenance

- Web Browser Administration and Configuration (via integrated web server)
- Telephone Keypad Configuration with Interactive LCD Text Prompts
- Automated Secure Provisioning and Upgrades via HTTP
- Asynchronous Notification of Upgrade Availability
- Automated Firmware Upgrade
- Automated Clock Synchronization
- Non-Intrusive, In-Service Upgrades
- Report Generation and Event Logging
- Per Line and Purpose Configurable System Log and Debug Options
- HTTPS with Factory Installed Client Certificate
- HTTP Digest Encrypted Authentication via MD5 (RFC 1321)
- Password Protected Admin and User Access
- Up to 256 bit RCS or RC4 Encryption
- Device Locking

IP Centrex/PBX Features

- Inbound Call Filtering
- Direct Inward Dial (DID)
- Speed 2-digit Dialing
- Anonymous Call Rejection
- Call Forward All Calls
- Call Forward Busy
- Call Forward No Answer
- Managed Call Forward
- Blind Call Forward
- Call Return
- Caller ID
- Caller ID Block
- Caller Name
- Call Waiting
- Caller ID for Call Waiting
- Last Call Redial
- Last Inbound Call Return
- Distinctive Ring
- Do Not Disturb (DND)
- Forward to Voicemail
- Hold Call
- 3-way Conference
- Permanent Caller Block
- Priority Call
- Call Screening
- Urgent Call
- Virtual Ring
- Music-on-Hold
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Technical Specifications

Connectors

- One Ethernet Port (RJ-45)
- One Video RCA Analog Port
- One Stereo Audio RCA Analog Port
- Optional WiFi/Wireless 2.4 802.11b Interface

Codexes

- G.711 (A-Law and Mu-law)
- G.726 (16/24/32/40 kbps)
- G.729
- MPEG4/SP
- MP3
- AAC

Data Networking

- MAC address (IEEE 802.3)
- IPx4 - Internet Protocol Version 4 (RFC 791) upgradeable to v6 (RFC 1883)
- ARP - Address Resolution Protocol (RFC 826)
- DNS - A Record (RFC1706), SRV Record (RFC 2782)
- DHCP - Dynamic Host Configuration Protocol (RFC 2131)
- ICMP - Internet Control Message Protocol (RFC 792)
- TCP - Transmission Control Protocol (RFC 793)
- UDP - User Datagram Protocol (RFC 798)
- RTP - Real Time Protocol (RFC 1889)
- DiffServ (RFC 2475), Type of Service - TOS (RFC 791/1349)
- SNTP - Simple Network Time Protocol (RFC 2030)

VISION Specifications

Voice Gateway

- SIP v2 - Session Initiation Protocol Version 2 (RFC 3261, 3262, 3263, 3264)
- SIP Proxy Redundancy - Dynamic via DNS SRV, A Records
- Re-registration with Primary SIP Proxy Server
- Secure (Encrypted) Calling via Pre-Standard Implementation of Secure RTP
- Codec Name Assignment
- Dynamic Payload
- Adjustable Audio Frames per Packet
- DTMF: In-band and Out-band (RFC 2833)
- Flexible Dial Plan Support with Interdigit Timers and IP Dialing
- Call Progress Tone Generation
- Adaptive Jitter Buffer
- Frame Loss Concealment
- Full Duplex Audio
- Echo Cancellation - (G. 165/G.168) up to 128ms
- VAD - Voice Activity Detection w/ Silence Suppression
- Attenuation / Gain Adjustments
- Flash Hook Timer
- MWI - Message Waiting Indicator Tones
- VMWI - Via FSK
- Polarity Control
- Hook Flash Event Signaling
- Caller ID Generation (Name and Number) - Bellcore, DTMF, ETSI
- Music on Hold Client (Downloadable MOH Content)

Miscellaneous

- Display - 3.5" Color TFT LCD
- Dimensions - 10" (W) x 6" (H) x 5" (D)
- Power - 5V, 2A, External

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