

MITEL'S MiVOICE VIDEO UNIT



MULTIMEDIA COLLABORATION APPLIANCE

Mitel® MiVoice™ Video Unit is a multimedia collaboration appliance that provides businesses with a range of capabilities, such as audio conferencing, in-room presentation display, multi-party audio & video conferencing and remote collaboration for the personal office and traditional meeting space all via a single, all-in-one business collaboration solution.

Traditionally video solutions were purchased and deployed as independent islands to other video and business solutions, which resulted in high costs and low return on investment for the business. With this in mind the MiVoice Video Unit was designed to not only provide businesses with video collaboration at an affordable price point, but to allow video collaboration to be more widely deployed throughout the business and therefore be used in a more personal nature.

WHAT MAKES MIVOICE VIDEO UNIT UNIQUE

MiVoice Video Unit is a first-of-its-kind device that provides businesses of any size of business with an affordable all-in-one collaboration solution that delivers superior audio performance and rich multimedia collaboration. Before the MiVoice Video Unit was introduced nothing existed for businesses that combined their audio, video, and presentation display needs into a single, easy to use appliance. What makes MiVoice Video Unit truly unique is that it delivers:

- High Definition (HD) Audio (22khz) providing acoustically superior sound clarity
- Automatic Video Call escalation once an audio call has been established – making video as easy as making a phone call.
- A built-in high-resolution, seven-inch colour multi-touch display (1024 x 600 dpi) that is used to access call handling, video conferencing and presentation functions
- In-room presentation display capabilities for traditional meeting space use
- Embedded Pictel SmartOffice Suite that enables the ability to view / modify PowerPoint®, Word, Excel®, and PDF files
- Access to cloud-enabled services, such as, Google® Docs™ and Dropbox
- Remote Desktop (RDP) capabilities so users can access a remote PC from the appliance for visual collaboration
- An embedded web browser that provides access to web-based services, such as Gmail, Google Contacts, and MS Exchange Web and web presentation services, such as MiCollab or other collaboration services
- Support for full multimedia - video stream being sent to remote participants can contain multimedia content that is located within the web, such as videos on YouTube or content that is located on a corporate drive or within a PowerPoint presentation

ADDITIONAL MIVOICE VIDEO UNIT FEATURES

Other key aspects of the MiVoice Video Unit that are equally important to you and your business include:

Audio Performance

- An array of 16 microphones located around the appliance allow for 360-degree sound pickup clearly from up to 12 feet away from the appliance
- Beamforming Technology automatically locates the prime speaker in the room, reduces the noise from the other mics and provides visual indication of the active microphone beam to users in the room
- Provides full-duplex speakerphone functionality for natural, non-clipped conversation
- Utilizes technology designed to resist GSM interference from mobile phones and other wireless devices, so that it can deliver clear communications without noise distractions

Audio Conference Functionality

- Provides a built-in four-party audio conferencing bridge (one local + three remote)
- Has a "Consultation Call" ability that provides the ability to set up a call with an external participant outside of the conference bridge even when the bridge is full
- Provides audible tone alerts when a party on a conference call has entered or dropped off the conference

Video Collaboration Functionality

- Provides a built-in four-party video conferencing bridge (one local + three remote)
 - Up to 720p x 30fps video conferencing support
 - HD multi-party audio / video conferencing capabilities with built-in four-party bridge (one local + three remote)

- Simultaneous display of both the presentation material and video windows of the conference participant - with the participant videos being display in a filmstrip format
- Allows for Picture-in-Picture display allowing local participants to see their video stream when engaged in a two-party conference
- Provides Dynamic Bandwidth Adaptation technology to automatically reduce the bandwidth being used when network congestion is encountered and then return back to normal when the network congestion clears

Embedded Capabilities

- Web Browser allows multimedia support for access to cloud-based services, such as Gmail, Exchange Web for contact dialing and chat functions
- Provides two USB 2.0 connections for transferring or accessing files or for accessories support, such as a wireless keyboard and mouse
- Has a Micro SD card slot for accessing files

Solution Interoperability

- Supports operation behind Mitel Border Gateway (MBG) as a solution to ensure firewall / NAT traversal, as well as to support communications between Teleworker / Branch Office locations
- Can be connected to a business's Corporate Directory via Active Directory® or LDAP support
- Powered via Power over Ethernet (PoE); Optional PoE Universal Power Adapter or Multi-port PoE Gigabit (Gb) Switch
- Built upon open, standards-based protocols & codecs (SIP, H.264 Baseline & High Profile) allowing it to be deployed in Mitel and non-Mitel communications environment

TECHNICAL SPECIFICATIONS

Product Information	MiVoice Video Unit (PN 50006591)	
System Requirements	Mitel Communications Director (MCD), Release 5.0 SP2 (or higher) Mitel Border Gateway (MBG), Release 7.1 (or higher)	
Power	IEEE 802.3at Power over Ethernet (Class 4) compliant Optional Gb PoE Adapter, Universal, 90-264 V, 48 VDC 50 – 60 Hz (PN 51301151) Optional Multi-port Gb PoE Adapter, Universal, 90-264 V, 48VDC 50 – 60 Hz (PN 51301282)	
Power Consumption	10/100 Mb Mode	GB Mode
	Idle	5.7 W
	Typical	9.2 W
	Maximum	20.0 W
Display	Resolution: 1024 x 600 Size: seven inch Color multi-touch TFT display Backlit display with adjustable brightness	
Keypad / Feature Keys	Standard 12-key touch-screen keypad (0–9, *, #) Five off-display touch buttons with icons for Home, Menu, Back, Mute, Volume Up/Down	
Audio Features	Beamforming microphone array – 16 microphones- on speaker Noise Reduction Frequency Response: 150 Hz to 22 kHz 12 ft (3.5 m) microphone pickup Maximum Speaker Volume: 80 dB at 1 meter peak volume Speaker / Ringing Volume range: 36 dB over 12 steps (volume remains at last setting used) Full-duplex speakerphone for natural conversation Volume control settings with on-screen display indication Automatic Gain Control (Beam former) Voice activity detection DTMF tone generation / DTMF event RTP payload Low-delay audio packet transmission Adaptive jitter buffers Packet loss concealment Acoustic echo cancellation Supported Codecs: G.711 (A-law and u-law): G.729a, G.722, G.722.1	
Room Size (Maximum)	980 feet ³ (277 m ³) 35 x 35 feet (10.7 x 10.7 m)	
Video and Collaboration Features	Up to four-party Video Conference (one local and three remote) H.264 support – Baseline and High Profile support 720p x 30 frames per second (video) 1080p (in-room presentation) Support for Dynamic Bandwidth Adaptation for video bandwidth	

Peripheral Device Support	HDMI Display HDMI Projector / Pico Projector Ethernet (LAN) Video Camera USB keyboard and mouse (wireless recommended)
Camera Specifications/Requirements*	ONVIF compliant Ethernet camera (Open Network Video Interface Forum) Supports H.264 video compression Supports video resolution up to 720p @ 30 fps Supports video streaming via RTP over UDP Provides a 10BASE-T/100BASE-TX Ethernet network interface *For a complete list of supported cameras, please refer to...
SIP Call Handling Features	Make Calls Receive Calls Advanced built-in four-party conferencing Call Hold / Retrieve Speakerphone Volume Controls Mute Ringing Volume Controls Configurable dialing plan support Search function One-touch contacts speed dial
Tone Plans UC360 can be configured to generate country specific call progress tones. Tone plans are supported for the following countries or regions: Australia, Canada, France, Germany, Italy, Latin America (Argentina, Chile, Mexico), Netherlands, New Zealand, Portugal, Spain, UK, USA	
Other Features	SIP Resiliency Status Bar: Network Status Settings: Brightness, Clean Mode, Advanced Settings, Date and Time, System Settings, Login / Logout, Language, Keyboard Time and date display / call timer Corporate Directory (Active Directory / LDAP) support Support for QWERTY or AZERTY keyboard styles with built-in keyboard function Multilingual Support: English, French (Canadian), Spanish (European), Spanish (Latin American), Dutch, German, Italian, Portuguese (European), Portuguese (Brazilian) Called, calling, connected party information LED ring with dual-colour (Blue / Red) LEDs (for ringing, mute, idle, alerting, and microphone beam indications)
Interfaces / Connectors	Ethernet 10/100/1000 Base-T with PoE (RJ45) HDMI (Type A) connector (HDMI version 1.4a) USB 2.0 (Type A) interface (x2) – used for transferring files / accessories support Micro SD Card slot External Audio input jack 3.5mm TRS (hardware only; not supported in current release) Five one-touch buttons for dedicated Home, Menu, Back, Mute, Volume Up / Down functions Support for USB-connected wireless keyboard and mouse

Network and Provisioning	<p>IP Address Configuration: DHCP and Static IP</p> <p>Flexible Bandwidth Control for uplink and downlink connections</p> <p>Voice QoS Support: IEEE 802.1p/q tagging (VLAN), Layer 3 TOS and DSCP</p> <p>Network Address Translation (NAT) support (MBG)</p> <p>Backup import / export</p> <p>Status and statistics (Debugging Settings)</p> <p>Reset to factory default</p>
Security	<p>Standard SRTP *</p> <p>Transport Layer Security (TLS) *</p> <p>Password login</p> <p>Password protected Settings (Administrator Access only)</p> <p>IEEE 802.1x</p>
* Not currently supported on MCD	
MTBF Rate	40.0 Years

REGULATORY STANDARDS

Safety	<p>USA</p> <p>Canada</p> <p>Europe</p> <p>Australia / New Zealand</p> <p>Mexico</p>	<p>UL 60950-01</p> <p>CSA C22.2 No. 60950-1-07</p> <p>EN 60950</p> <p>EN 60950-1</p> <p>AS / NZS 60950-1</p> <p>NOM-019-SCFI-1994</p>
EMC	<p>USA</p> <p>Canada</p> <p>Europe</p> <p>Australia / New Zealand</p>	<p>FCC (47 CFR Part 15) (Class B)</p> <p>ICES-003 (Class B)</p> <p>EN55022 (Class B)</p> <p>EN55024: 1998 + A1:2001 + A2:2003</p> <p>EN61000-3-2:2006 - EMC, Part 3-2</p> <p>EN 61000-3-3:1995 + A1:2001</p> <p>AS / NZS CISPR 22 (Class B)</p>
Telecom / Network	<p>USA</p> <p>Canada</p> <p>Europe</p> <p>Australia</p> <p>New Zealand</p>	<p>FCC (47 CFR Part 68)</p> <p>CS-03, CP-01</p> <p>TBR-4, TBR-12, TBR-3, ETSI 203 021,</p> <p>S002, S003, S038</p> <p>PTC220 / TNA 134</p>
Acoustic – Regulatory	<p>USA</p> <p>North America</p>	<p>ANSI/TIA 810-B</p> <p>ITU-T p.340</p> <p>TIA/-920, (DEC/02)</p>
Protocol Support	<p>SIP</p> <p>H.264 Video Codec – Baseline & High Profile</p>	
MiVoice Video Unit ships with:	<p>MiVoice Video Unit appliance</p> <p>7 foot (2 m) CAT5e Ethernet LAN cable</p> <p>10 foot (3 m) HDMI cable</p> <p>Installation Guide</p>	

DATA SHEET | MITEL'S MiVOICE VIDEO UNIT

Environmental Conditions	Operational	Temperature 0°C to +49°C (+32°F to 120°F)	Humidity 15% – 95%, non-condensing
	Storage	-30°C to +66°C (-22°F to +150°F)	15% – 95%, non-condensing
Warranty		1 year	
Physical Dimensions	MiVoice Video Unit Only	Size (L x W x H) 13.5 in x 8.7 in x 2.8 in (35 cm x 22 cm x 7 cm)	Weight 2.85 lbs (1.3 Kg)
	Boxed	18.5 in x 10.5 in x 5.5 in (44 cm x 26.5 cm x 14 cm)	4.4 lbs (2.0 Kg)

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