

mm146

Bringing quality video communications to the desktop has never been this easy

- Superior video and excellent handsfree audio
- Works over Internet, VPNs, Ethernet, LAN/WAN requiring no dedicated infrastructure
- Makes very efficient use of available bandwidth
- Suitable for home or office use
- Has many enhanced features including: shared phonebook, digital zoom, picture quality control and flash/remote upgrades
- Compatible with other H.323 devices
- Connects to TV and external camera for group conferencing



Quality video adds an extra dimension to everyday communications.

Psychologists say 90% of communication is non-verbal, but with increasing pressures on time, cost, and the environmental expense of travel, a face-to-face meeting should no longer require a road trip or flight.

Recent improvements in the cost and availability of bandwidth in the home and business, together with advances in video compression technology mean that quality video communication has at last come of age.

Superior video and audio over IP

With up to 30 frames per second, superior picture quality, handsfree audio and simple intuitive user interface, the mm146 offers the ultimate in videophone technology without expensive network provisioning.

Network flexibility

Individual calls can be dialled and adaptively scaled to any bandwidth between 32 and 384 kbps, working in perfect synergy with the variable bandwidth available from broadband (cable or ADSL) and corporate internetwork links.

Ease of use

mm146 features an instant and familiar telephone interface. Simply dial as you do with a regular telephone to originate a call. Or dial numbers from the speed dial directory in just a few key presses.

Enhanced features

Attention to detail is the hallmark of the mm146. Unique features like a phonebook that can be shared across the corporate LAN, digital zoom capability, and inputs and outputs for an external Pan-Tilt-Zoom camera, microphone and TV that enable groups of people to participate in video meetings.

Versatility

Featuring two 10/100 Ethernet connections, the mm146 can be installed at any desk without provisioning an extra LAN connection. Just connect the mm146 to the network and your PC to mm146.

The mm146 features two protocols: H.323 for companies with H.323 aware firewalls, gatekeepers and an IP address for each phone, and MMTPB which allows all mm146 videophones to share one external IP address and works with any firewall.

The mm146 works over Internet, VPNs, WANs, LANs and Cable modems bringing video to any location with an IP connection.

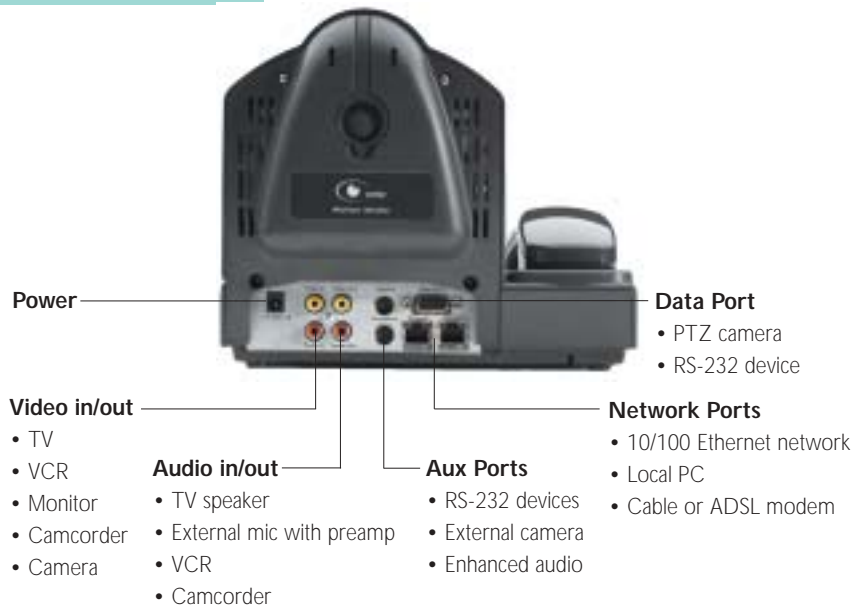
Software updates

Flash memory ensures an easy upgrade path to future IP video telephony standards.

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Technical specifications

Communications Protocols Supported

- Video ITU-T H.323
- H.324 over IP including proprietary security and control features
- Video compression: H.263
- Audio encoding: G.723, G.711
- Capability/Control Protocol: H.245
- Multiplexing and transmission: H.225.0 and MMTPB

System Performance

- CIF video format: 352 x 288 pixels
- QCIF video format: 176 X 144 pixels
- CIF, 15fps, QCIF, 30fps

Video Inputs

- Internal colour camera (manual tilt)
- Composite input: Phono
- Format: NTSC/PAL Composite 1 Vpp
- Termination: 75 Ohms
- Peripheral camera port: MiniDin-8

Audio Inputs

- Handset and internal microphone
- Line level input: Phono
- Format: Line level (-10dbm typical)
- Termination: 10K Ohms (minimum)
- Peripheral audio port: MiniDin-8

Video Outputs

- Integrated 5" TFT LCD display
- Video output: Phono
- Format: NTSC/PAL Composite 1 Vpp
- Impedance: 75 Ohms

Audio Outputs

- Handset and internal speaker
- Audio output: Phono
- Format: Line level (-10dbm typical)
- Impedance: 600 Ohms

RS-232 Data Ports

- Connectors: 2, DB9F and MiniDin-8
- Format: RS-232, DCE Pin-out
- For use with external PTZ cameras, peripherals and PC's
- Operating modes include camera control, transparent data channels and host control
- Each port also provides an alarm trigger input
- Data rates supported from 1200-115,200 bps

Peripheral Video and Audio Ports

- Connectors: 2, 8 pin DIN proprietary
- Format: Power, Video, Audio and Control
- For use with custom applications and peripherals

Network Communications Interface

- Interface 10/100 Ethernet
- 2 x RJ-45 Jack connectors
- Internal 10/100 hub included
- Compatible with standard 802.3 IP based networks
- Throughput - up to 384kbps
- Adaptive bandwidth utilisation

Software Features

- 50 entry phone book and integrated speed dial function
- Synchronise phonebook from a master unit over the network
- Remote source and camera controls
- Camera control drivers for Sony and Canon PTZ cameras
- Digital Pan/Tilt/Zoom for non-PTZ cameras
- Image quality controls to select resolution, motion and details
- Full-duplex acoustic echo canceller included
- Remote site user ID display with overlay on picture
- Picture-in-Picture (PIP) display (movable, sizeable)
- Image snapshot and privacy modes
- Auto answer mode
- Secure PIN access to remote systems
- Compatible with eyesite series security products
- On-screen diagnostics and call reporting
- Auto dial on alarm trigger
- Software updates via RS-232 data port
- Caller ID with Phone book lookup

Data Port

- PTZ camera
- RS-232 device

Network Ports

- 10/100 Ethernet network
- Local PC
- Cable or ADSL modem

- Call Logs for Dialed/Missed/Received
- Intercom Mode for rapid Intra-office connections using extensions

Power

- DC input requirement 12 VDC
- Power consumption <22W active <5W standby
- UL/CSA listed EN60950 AC adapter, 110 - 240VAC

Physical/Environmental

- Dimensions (HxWxD): 180 x 210 x 250mm
- Weight: 1.2kg
- Operating temperature: 0° to 40°C ambient
- Operating humidity: 5% to 95% relative humidity, non-condensing
- Storage temperature: 0° to 70°C ambient
- Storage humidity: 5% to 95% relative humidity, non-condensing

Package Includes

- Network cable
- AC Power Adapter
- User Manual and Quick Start Guide

Approvals

- FCC part 15B
- UL/CUL listed
- CE Europe
- For other countries contact your supplier

Warranty

- One year parts and labour

Specifications subject to change without notice

* For further information contact your Motion Media representative



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