



WatchWitz Technologies Pvt Ltd

# WatchWitz WeMeet

A Virtual Replica' of a Standard Classroom

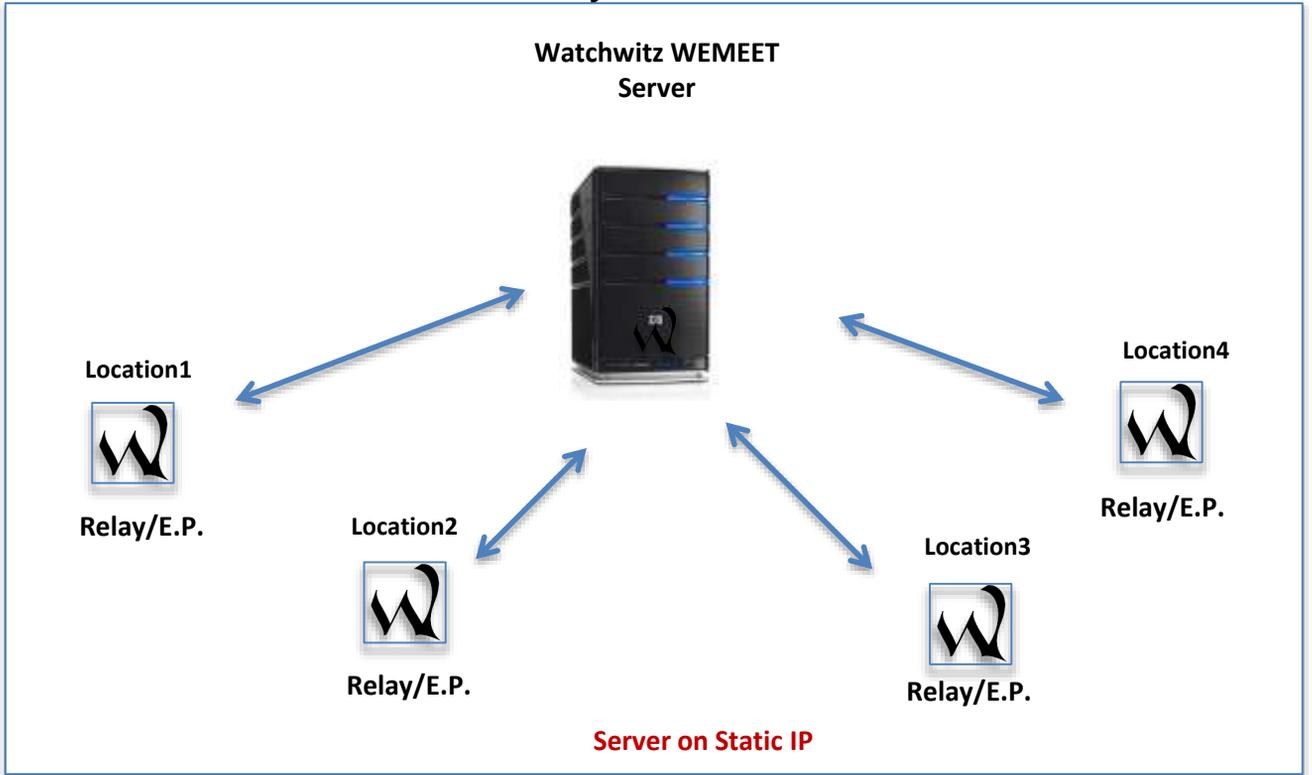
## Virtual Classroom System for Live & interactive lectures

- A Proven Technology
- Works on broadband
- 100% acceptability by the recipient / Student/Beneficiary
- 1/5<sup>th</sup> the cost and 20 times the expandable capacity compared to any video conference device or systems.
- Compact solution for 30 to 300 capacity Classrooms & Auditoriums

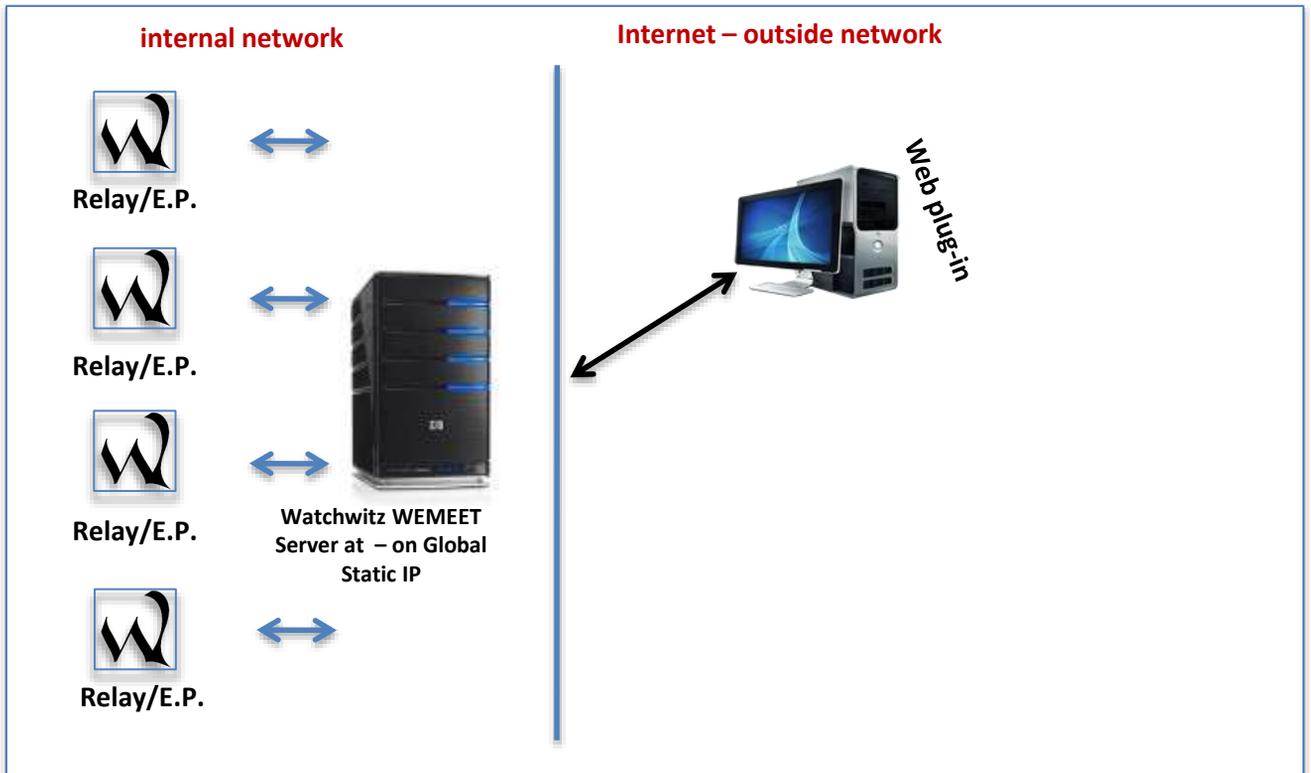
# WatchWitz WeMeet

A Virtual Replica' of a Standard Classroom

## Content Delivery Network Architecture



Schematic



# WatchWitz WeMeet

A Virtual Replica' of a Standard Classroom

Photograph of an ongoing session –  
Endpoint location



A/V SCREEN



DATA SHARE SCREEN

## Key Features:

(Presenter driven – one way)

- Integrated White board.
- integrated document share
- integrated movie share.
- Integrated computer access in LAN and broadcast.
- Integrated recording an archiving of all sessions

## Salient Features:

- The best resources can be shared with a huge audience interactively.
- Share data, movies and all that's needed in a session.
- Complete acceptability the participants due to the simplicity in design
- Absolutely Zero chaos due to question queuing option.
- Easy plug and play installation.
- 1/10th the network costs and lesser than half of hardware cost of any other conferencing unit, with 10 times the expandability and only caters to a classroom scenario.
- Any person across the globe could get connected and deliver in this network.



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### Extended Features:

- Distributed content delivery to locations outside your network
- Cloud based content delivery for maximum scalability
- Cloud Server management and administration done by our expert technical team
- Options of 1-way live broadcast , Webcast or interactive virtual classroom in unilateral system (passive mode) where users can ask questions by typing text.
- Any connected location having WatchWitz WEMEET VMESV101 or WatchWitz WEMEET VMESV102 setup can act as endpoint location to reduce costing.
- Works on Wired broadband connections, thus not requiring lease line and dedicated network options
- Works on broadband connection of 512 Kbps or better (1 Mbps recommended)

### Basic Requirements at all locations connecting outside network:

- Internet Connectivity Relay/Endpoint: 1 Mbps broadband connection, recommended without proxy.
- Projector System: Projectors should be more than 2700 luminous.
- Only in case if you are using WatchWitz WEMEET VMESV101 need a PC or Laptop with Windows XP SP2 or higher & set of PC Speakers. WatchWitz WEMEET VMESV102 & WatchWitz WEMEET VMESV103 have inbuilt CPU units as well.

### Scheduling and session control features.:

- Location
- Department
- Subject
- Schedule (Date, Time, Master venue)
- Faculty
- Category (Content Development/Live lecture...)
- Update resources (PPT, Movie, Images)
- Group Invitation
- Joining Password
- Reminder instructions
- Type of delivery (Dual Screen -TWIN/Single Screen- UNILATERAL)
- Additional services required (SAAS WTPL gateway for scalability)
- Recording instructions (Only Speaker/ All)

### Other Features

- Centralized Secure Authentication
- Server management and administration at your location
- Complete administrator Panel, with scheduling and session control features.
- Any connected location having WatchWitz WEMEET VMESV103 installation can become Relay location for delivering lectures and controlling entire session
- Works on MPLS VPN
- Robust architecture to provide high quality Virtual Classroom experience
- Every location having WatchWitz WEMEET VMESV103 can act as Relay or Endpoint
- Network uptime managed by ISP

### Basic Requirements at all locations (Unilateral system):

- Internet Connectivity Relay/Endpoint: Minimum 512 Kbps broadband connection, without proxy or higher.
- Projector System: Projectors - should be more than 2700 luminous for unilateral system
- WatchWitz WEMEET VMESV103 have inbuilt CPU units as well.
- Uninterrupted power supply.

### References:

- Science & Technology Park, University of Pune
- SNDT Women's University, Mumbai
- PES Modern College of Arts, Commerce & Science, Pune
- HVPM's College of Engineering & Technology, Amravati
- Dr. D. Y. Patil Institute of Engineering and Technology, Pune
- Jawaharlal Darda Institute of Technology, Yawatmal
- Symbiosis Institute of Management Studies, Pune

# WatchWitz WeMeet Specifications

## WatchWitz VMESV101 Integrated Main Camera

- Color camera
- 3.6 mm lens
- 1/3" alpro color ccd
- 420 TV lines
- 0.7 lux
- 15 volt 800 milliamp

## WatchWitz WEMEET VMESV101 Wireless Receiver

- VHF Band frequency Quartz Lock Control.
- Wireless Mic
- Frequency Range 180-270MHz.
- Single Channel Receiver.
- Output: Balanced XLR / Unbalanced 6.35mm phone jack
- freq. response : 50Hz -50KHz
- Power : 15 volt 800 milliamp
- telescopic antenna
- max working range: 100m (under ideal conditions)  
actual range depends on RF signal absorption reflection & interference
- RF output : 10mW (max)
- Battery : alkaline type

## WatchWitz WEMEET VMESV103 Video Capture device

Single channel USB bus powered  
Composite Video Input and Audio Input

## WatchWitz WEMEET VMESV103 User Interface

User-friendly graphical interface  
Touch screen compatible

## WatchWitz WEMEET VMESV103 Internal Features

One to many audio-visual communication  
User authentication from centralized server  
NAT & Firewall Friendly  
Works on Broadband internet connection

## WatchWitz WEMEET VMESV103 Advantages

- Useful for conducting coaching classes, lectures & seminars
- Universal acceptability, portable and easy to use.
- Virtual presence of speaker in multiple locations
- Add live, real-time interaction
- Provide superior experience, with no user left behind
- Increase user participation
- Leverage limited resources
- Attract and retain quality of work
- Reduce travel and teleconferencing costs of speakers
- Improve information exchange with online meetings
- Provide professional development and enable more productive meetings
- Collaborate in real time
- Ensure safe, secure access anywhere, anytime
- Realize rapid return on investment
- Multiple bandwidth and resolution support.

## WatchWitz WEMEET VMESV103 Audio Features \*\*

Full-duplex audio  
Instant Echo Cancellation  
Automatic Gain Control (AGC)  
Automatic Noise Suppression (ANS)  
Audio mixer  
Built-in Amplifier  
Independent LED indicator for WatchWitz microphone  
Microphone and input audio

## WatchWitz WEMEET VMESV103 Wireless Microphone

- Unidirectional wireless microphone
- Reduces transmission of surround noise
- On-Off button
- Light-weight

## WatchWitz WEMEET VMESV103 Integrated Speaker, Amplifier and Wireless Receiver \* \*

- Max 200 Watts RMS @ 2 OHMS or 50 RMS @ 4 OHMS speakers arranged for best performance
- Wireless receiver with frequency range 224 MHz to 297 MHz
- Wireless receiver range: 30 meters minimum
- Amplifier: 600 Watts RMS with 4 channel non interlaced input
- Speakers On/Off
- Built-in adjustable level
- Master volume control. User-tuned treble and bass controls

**\*\* These features are not available in  
WatchWitz WEMEET VMES101**

# WatchWitz WeMeet Specifications

## WatchWitz VMESV103 Audio Standards

Up to 44 kHz bandwidth MP4a

## WatchWitz VMESV103 Audio Inputs

1 x Conference link for microphones  
Up to two wireless microphones

## WatchWitz VMESV103 Audio Output \*\*

4 x RCA for external loudspeaker system

## WatchWitz VMESV103 Network Features

Robust Gigabit network to provide uninterrupted live communication to all connected WatchWitz WEMEET VMESV103  
Reliable US located data centers  
TB backbone connectivity to support multiple concurrent connections  
Pre-configured centralized authentication and media distribution network for cost optimization

## WatchWitz VMESV103 Conference on Demand

Initiates scheduled audio-video communication from the endpoint to connect with relay locations  
Auto selects either the internal or external bridge  
Dials all participants simultaneously

## WatchWitz VMESV103 Security

Independently tested for endpoint security  
Enhanced integration for independently certified devices  
Secure password authentication  
Unique default passwords  
Administrator password  
Ability to disable specific endpoint  
Auto-Answer mode  
Allow access to user settings

## WatchWitz VMESV103 System Management

Diagnostics and software upgrades via PC, LAN  
Integrated interface for remote management  
System configuration from remote management  
Connectivity with WatchWitz Web Services  
    Auto server discovery  
    Auto registration  
    Software update  
    Integrated web services for remote management, authentication, diagnostics and passwords

## WatchWitz VMESV103 Electrical \*\*

SMPS unit 12V, 600 Watt, Single Rail, 10 Amp  
SMPS and other cooling units - 5" and Or 3" Fans 0.8 Amp Max Load.

## WatchWitz VMESV103 Environmental Specifications

Operating Temperature: 0-40° C  
Operating Humidity: 15-80%  
Non-Operating Temperature: -40-70° C  
Non-Operating Humidity (Non-condensing): 10-90%

## WatchWitz VMESV103 Warranty

Six months/ One-year "Carry-In BTB" Warranty

**\*\* These features are not available in WatchWitz WEMEET VMES101**

## WatchWitz VMESV103 Bandwidth

Maximum Data Rate: Up to 2 Mbps

## WatchWitz VMESV103 Video Standards

H.264  
Multiple resolutions supported

## WatchWitz VMESV103 Frame Rates (Point-to-Point)

Intelligently selects frame rate for best performance video  
30 fps at 512 kbps up to 2 Mbps

## WatchWitz VMESV103 Video Input

Integration with main camera  
1 x Composite

## WatchWitz VMESV103 Video

USB Digital Video with multiple resolution support

## WatchWitz VMESV103 Video Formats

NTSC, PAL, SXGA, XGA, SVGA, VGA

## WatchWitz VMESV103 Integrated Main Camera \*\*

65° field of view  
Total Field of View: 265°  
Up to 40x Zoom  
Auto focus  
Automatic white balance  
Camera presets  
Standards-based, far-end camera control

## WatchWitz VMESV103 Video Resolution \*\*

Interlaced video  
4SIF (704 x 480)  
4CIF (704 x 576)  
SIF (352 x 240)  
CIF (352 x 288)  
Half-VGA (320x240)  
QCIF (176 x 144 pixels)  
QVGA (160 x 120 pixels)  
Choice of 4:3 or 16:9 display aspect ratios

## WatchWitz VMESV103 Content Video Resolution

XGA (1024 x 768), SVGA (800 x 600), VGA (640 x 480) for graphic displays  
Up to 4 CIF, or CIF for NTSC/PAL displays

## WatchWitz VMESV103 Quality of Service

Video Error Concealment  
Audio Error Concealment  
IP Precedence (ToS)  
DiffServe DHCP (CoS)  
Dynamic Bandwidth Allocation  
Proactive Network Monitoring  
Packet and jitter control  
Network Address Translation (NAT) support  
Automatic NAT discovery  
Configurable video/audio/FECC service value  
Asymmetric speed control  
TCP/UDP fixed-port firewall support  
Lip synchronization  
Echo cancellation  
Echo suppression



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