



# WATCHWITZ MEDICOMM CONNECT

version 1.1

System registered under MFCME GRANTS & SUBSIDIES

Apply for subsidies on medical equipment on [www.mfcme.in](http://www.mfcme.in)



**WatchWitz Technologies Pvt Ltd**

Address: 44, Kachipura, Near Kachipura Garden , Ramdaspath, Nagpur, Maharashtra, India, 440010

Phone:+91-712-6640999, 6615172 || Fax:+91-712-6615179 || Email: [support@watchwitz.com](mailto:support@watchwitz.com)

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# MEDI COMM CONNECT

Virtual Classroom systems / networks  
Professional Broadcasting services  
Cloud / CDN / Dedicated Media Servers

WatchWitz Technologies Pvt Ltd

Live Medical events / live surgeries  
Live music events / corporate events

We Design Octaves of Technology

## MEDI COMM CONNECT Contents



### MEDI COMM CONNECT Contents

- Live Transmission Unit – HD /SD
- Live Video Encoder
- Live Audio-Visual Digital Mixer (for PIP & Effects)
- Live Media Recorder
- Multi-Input HD /SDI-HD capture
- Acoustic Echo Cancellation unit (in-built)
- Wireless Mic with Receiver for OT
- Dolby Digital Speaker Set
- Display Monitor / Control Panel
- Wall Mount control panel extender arm

# HD+SD

### Installation & implementation

- Required HD & SD Cables as per OT
- Required Range Extenders and Joiners
- Required AV Connectors & Converters
- Required additional Accessories



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## MEDI COMM CONNECT

### Features

#### Conduct interactive live surgery sessions

- Connect up to 5 classrooms/halls for live interaction from your Operation Theater
- Multiple camera setup of this system allows perfect viewing for students
- Avoids chaos in OT and disturbance for surgeon
- Replica of High end medical conferences ensures professional education imparted
- As 5 classrooms can connect all students of MBBS or PG alongside invited guests and other students
- System being interactive students from all 5 classrooms can ask questions like in any international medical conference
- Works within network on LAN connectivity
- Create permanent setup for regular live surgical workshops for your campus within OT
- Demonstrate complex surgeries and procedures to all applicable students within campus
- Hi-Tech infrastructure designed specifically keeping in mind surgeons requirements
- Save your invaluable time by non-repetitive live sessions and procedures with your students

#### Complete Setup to make OT live for interaction

- Complete setup including capacities of A/V inputs, Digital Mixer, Encoder & transmission system
- Touch Screen Compatibility
- Network creation within 300 meters.

#### Buy Add-ons

- Extendable network creation on your requirement
- Extendable arm for mounting high definition handycam

#### Cost effective technology

- Cost effective technology works on existing LAN comparing to fiber optics or other options.
- Conduct Unlimited Live interactive sessions and Surgeries within your network
- No recurring costs of transmission, connectivity or technology for usage.

#### Multiple HD+SD Video inputs

- Up to 3 Video inputs
- All HD / SD / OT / Surgery Cameras supported

#### Supported all standard A/V Input Types

- Direct Video Camera input
- Any Audio Mixer/Amplifier input
- HD/SD Audio-Video Mixer Input
- HD/SD Audio-Video Recorder Input

#### Built-in Video Digital Mixer (HD / SD)

- Built-in video mixer does not require hardware mixer for mixing video inputs HD and SD capable
- Mix surgical camera inputs with external camera views in real-time
- Real-time Video Switching & PIP modes
- Support for scrolling text marquee

#### Video upscale to high quality HD transmission

- Built-in encoder for up-scaling video signals to deliver High Definition (HD) quality

#### Works without any of following:

- Fiber Optic cable links
- Dedicated Leased Line
- High Speed internet
- V-SAT Connectivity



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## MEDI COMM CONNECT Features



Live interactive Surgery with 5 halls /classrooms within network using MEDI COMM CONNECT



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## MEDI COMM CONNECT Specification

### WatchWitz MEDI COMM Supported Medical Devices

- All HD / SD OT / Surgery Cameras supported
- Devices having output channels in Digital or Analogue in any format of below mentioned compatibility matrix

### WatchWitz MEDI COMM Compatibility Matrix

#### Supported Video Input

- Component video (YPbPr)
- Composite video
- S Video
- Digital video (HDMI support 1080i / 720p)
- HDV/DV
- DVI-D
- VGA
- USB VFW/WDM Compatible device
- SDI Input
- BNC / Direct Cable

#### Supported Audio Input

- RCA (L/R Audio)
- Stereo & Mono
- 3.5 mm Jack
- Analogue 1/4" Jack
- USB Audio Device

#### Supported A/V Input Types

- Direct Video Camera using any of above mentioned input types in compatibility matrix
- Any Audio Mixer/Amplifier input
- HD/SD Audio-Video Mixer Input
- HD/SD Audio-Video Recorder Input

#### WatchWitz MEDI COMM Audio Features

- Full-duplex audio
- Instant Echo Cancellation
- Automatic Gain Control (AGC)
- Automatic Noise Suppression (ANS)

### WatchWitz MEDI COMM Video Capture device

#### Input:

- Digital: HDMI 1.3
- Analog: Component (YPbPr support 1080i / 720p) / Composite / S-Video / Audio (L/R)

#### Input Video Resolution:

Composite & S-Video:  
720x480@60i, 720x576@50i

#### Component:

720x480@60i/60p / 720x576@50i/50p /  
1280x720@50p/60p / 1920x1080@50i/60i

#### HDMI:

640x480@60/72/75/85 / 720x480@60i/60p /  
720x576@50i/50p / 800x600@56/60/72/75/85 /  
1024x768@60/70/75/85 / 1152x864@75 /  
1280x720@50p/60p / 1280x768@60 / 1280x800@60 /  
1280x960@60 / 1360x768@60 / 1280x1024@50 /  
1440x900@50 / 1600x1200@30 /  
1680x1050@35 / 1920x1080@50i/60i /  
1920x1080@24/25/30

### WatchWitz MEDI COMM Dual Video Mixer

- Live Mixing
- Real-time PIP
- Presenter / Presentation mode
- Support for scrolling text marquee
- Support for Dual Capture Video devices
- HD and SD capable
- Support for all popular formats including AVI, MP4, H264, MPEG-2, WMV and QuickTime
- 4 Overlay channels

### WatchWitz MEDI COMM User Interface

User-friendly graphical interface  
Touch screen compatible



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## MEDI COMM CONNECT Advantages

### Advantages

- ✓ Useful for medical institutions for connecting up to 5 auditoriums/halls for live surgeries within same network to carry large audience
- ✓ Unlimited HD transmission without internet or Fiber Optic
- ✓ Works on existing LAN and infrastructure
- ✓ Simple, Easy to use High Definition transmission system
- ✓ Minimum setup required at OT - only power supply and Network connectivity
- ✓ Compact setup - maximize space utilization in OT
- ✓ Add live HD transmission with real-time interaction
- ✓ Provide superior experience, with no user left behind
- ✓ Increase user participation
- ✓ Live OT to multi-screen audio-visual communication
- ✓ Leverage limited resources
- ✓ Robust architecture to provide high quality transmission
- ✓ Attract and retain quality of work
- ✓ No recurring expenditure of hiring videographers and setup
- ✓ Realize rapid return on investment



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