

VirtualDoc

HD Telemedicine

Benefits

- High Definition resolution for a natural, life-like experience
- AES encryption for HIPAA compliancy
- UL 60601 compliant power supply for use in patient care environments | Anti-microbial work surface
- Cisco 802.11 b/g/n WiFi network with long-range diversity antenna system (Other wireless vendors available)
- Wireless capability supports up to 7 additional IP addresses and wireless roaming capability throughout an entire facility
- Integrated 4 port Ethernet 10/100 Switch for additional networked peripherals
- Battery capable for true mobility; automatic transfer between AC & battery power with no switches
- Power distribution outlets for additional peripherals
- Remote status and control of Power System, Codec, Wireless Network and peripherals via web interface
- Optional medical and nonmedical peripheral devices such as: Otoscope, Dermoscope, Stethoscope, General Exam Scope, Laptop
- Low center of gravity 5-wheel casters provide total mobility and maximum stability
- Integrated ergonomic adjustable handle allows for one hand maneuverability and camera height adjustment to maintain eye contact



Patented



VirtualDoc integrated with optional wired or wireless laptop



Available with dual monitors, expanded work surface and a lockable drawer

ExStream Mobile Technologies VirtualDoc provides high-definition video conferencing, imagery, and audio diagnostic capabilities in an ergonomic, wireless and battery-capable platform.

Integrated with Polycom Solutions

ExStream Mobile Technologies VirtualDoc providing high definition Telehealth technology to the patient's location is more important than ever in today's health care facilities. Emergency Departments are mandating mobility, wireless and battery powered visual communications solutions to increase the quality of patient care, reach new markets, provide new services and control costs.

VirtualDoc enables medical professionals to provide remote wireless consultations with patients and physicians anywhere, anytime.

All standards based medical peripheral devices are interoperable so the **VirtualDoc** is perfect for delivering continued medical education (CME).

VirtualDoc optional integrated medical peripheral devices such as Otoscopes, Dermoscopes or General Exam Scopes to name a few, enable high definition, virtual images to be viewed. Images of a patient's eyes, ears, nose, throat, as well as any other physical attributes can be viewed in real time.

The options are limitless... Let your imagination roam!

ExStream Mobile Technologies VirtualDoc was specifically designed for applications where a compact, battery powered, wireless mobile system is required, while still providing the sophisticated technology and flexibility of larger units.

VirtualDoc enables you to utilize stethoscopes which provide quality processing of auscultation signals of heart and lung sounds in real time, while giving the healthcare professional the ability to view the patient.

Wireless Portable Solutions with Unlimited Boundaries

Usage Environments

- Hospitals
- Remote Clinics
- University Medical Centers
- Physicians' Offices
- Emergency Rooms
- Outpatient Mental Health Centers
- Skilled Nursing Facilities
- Prisons and Jails
- Intensive Care Units

Key Applications

- Emergency / Trauma
- Stroke / Neurology
- Primary Care
- Intensive Care
- Orthopedics / Surgical Follow-ups
- Cardiology
- Pulmonology
- Dermatology
- Psychiatry / Mental Health
- Telementoring
- Sign and Spoken Translation Services

VirtualDoc

Integrated with
all Polycom
HD Solutions

(See specific Polycom datasheet
for additional details.)

Standard Features

Display

22" LCD (1680 x1050)
Standard on single and dual monitor
mobile systems

Video Standards & Protocols

- H.264
- H.263++
- H.261
- H.239 / People+Content
- H.263 and H.264 Video Error Concealment

People Video Resolution

- 720p, 30fps from 832 Kbps
- 720p, 60fps from 1.2 Mbps
- 1080p, 30fps from 1.7 Mbps
- 4SIF (704 x 480)/4CIF (704 x 576) at 256 Kbps-784 Kbps
- SIF (352 x 240), CIF (352 x 288)
- QSIF (176 x 120), QCIF (176 x 144)
- HD Continuous Presence Multipoint

Content Video Resolution

- Up to 720p
- Input: WSXGA+ (1680X1050), SXGA (1280x1024), HD (1280X720)XGA (1024 x 768), SVGA (800 x 600), VGA (640 x 480)
- Output: 720p (1280x720), 1080 (1920x1080), XGA (1024x768), SVGA (800x600)

Audio Standards & Protocols

- Polycom StereoSurround
- 22kHz bandwidth with Polycom Siren 22
- 14kHz bandwidth with Polycom Siren 14, G.722.1 Annex C
- 7 kHz bandwidth with G.722, G.722.1
- 3.4 kHz bandwidth with G.711, G.728, G.729A
- Automatic Gain Control
- Automatic Noise Suppression
- Instant Adaptation Echo Cancellation
- Audio Error Concealment
- Keyboard Noise Reduction

Other ITU-Supported Standards

- H.221 communications
- H.224/H.281 far-end camera control
- H.323 Annex Q far-end camera control
- H.225, H.245, H.241, H.331
- H.239 dual stream
- H.231 in multipoint calls
- H.243 chair control
- H.460 NAT/firewall traversal
- BONDING, Mode 1

Sound System

• Integrated 6 watt RMS sound system with high performance speaker

Computer Provision

- Supports optional wired or wireless laptop

Wireless LAN Provision

• Integrated with a field proven Cisco wireless 802.11 b/g/n WiFi network and high performance diversity antenna systems

(other wireless vendors available)

Wireless 3G Provision

• Optional high performance 3G wireless router and high performance antenna.

Maneuverability

• Five 4" Twin wheel precision casters for the ultimate stability (two side locking casters)

Height Adjustability

- 10" Height Adjustability (work-surface group includes display, camera and work-surface) from floor:
- Work surface: 32"- 42"
- Camera: 52.0"- 62.0"

Cart Construction

- Compact or optional expanded antimicrobial work surface
- Light weight aluminum and steel construction
- Easy to clean, powder-coated finish
- Pneumatic lift for camera height adjustment
- Large rear handle for easy cart control

Storage

- Integrated 16" x 8" x 6" storage basket on rear of cart
- Lockable drawer available with expanded work surface

Dimensions

Single monitor mobile system

- Diameter 23.0"

Overall dimensions

- Depth: 26.5" (including handle)
- Height: 65.5" to top of camera

Weight

• Mobile system weight 135 lbs.
(single monitor without peripherals)

Optional

Integrated Peripherals

- S-Video Switch (4) Position
- Otoscope, Dermoscope, General Exam Camera, Stethoscope (additional requested devices available)

Power System

- Meets UL60601 leakage current specifications
- Automatic power transfer switch

Battery Power System

- 42 Ah sealed lead acid battery provides up to 4 hours of continuous, continuous run time without peripherals
- Central on/off switch with visible battery power gauge and audible alarm
- Automatic battery disconnect (Extends battery life)

Operating Environments

- Operating temperature: 0°C to +40°C
- Humidity – Operating: 10% to 80% non-condensing

Regulatory

- FCC
- Industry Canada
- NRTL (C and US)
- CE
- C-Tick

Patented

ExStream
Mobile Technologies

ExStream

Mobile Technologies

8106 Beckett Center Drive

West Chester, Ohio 45069

513.874.8133

fax 513.874.8233

www.sales@ExStreammobiletechnologies.com