

VirtualDoc HD Solutions

Benefits

- High Definition resolution for a natural, life-like experience
- AES encryption for HIPAA compliance
- UL 60601 compliant power supply for use in patient care environments
- 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 (Many health care facilities prohibit 4 wheel carts due to stability issues)
- 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 portable, wireless, high definition video, audio solutions to healthcare, emergency response professionals and patients, anywhere, anytime.

Integrated with Tandberg HD 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 Tandberg
HD Solutions

(Tandberg Edge 95 specification depicted. See specific Tandberg datasheet for additional details.)

ExStream
Mobile Technologies

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Mobile Technologies

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Standard Features

Display

22" LCD (1680 x 1050)
Standard on single and dual monitor mobile systems

Bandwidth

95 MXP: H.320 up to 512 kbps
H.323 & SIP up to 2 Mbps
85 MXP: H.320 up to 384 kbps
H.323 & SIP up to 1.1 Mbps
75 MXP:
H.320 up to 128 kbps
H.323 & SIP up to 768 kbps

Firewall Traversal

TANDBERG Expressway™ Technology
Auto NAT
H.460.18, H.460.19 Firewall Traversal

Video Standards

H.261, H.263, H.263+, H.263++ (Natural Video), H.264

Video Features

Native 16:9 Widescreen
Advanced Screen Layouts
Picture in Picture (PIP)
Picture outside Picture & Large POP
Side by Side
PC Zoom
Intelligent Video Management
Simultaneous videoconference & local PC mode
Local Auto Layout

Video Inputs (5 Inputs)

1 x 9 Pin DSub: HD Main Camera
1 x MiniDin, S-video: auxiliary/document camera
1 x RCA/Phono, composite: document camera/aux
1 x RCA/Phono, composite: VCR
1 x DVI-I: PC
Input: 800 x 600 (@ 60, 72, 75, 85 Hz),
1024 x 768 (@ 60, 70, 75 Hz),
1280 x 720 (HD720P) (@ 50, 60 Hz),
1280 x 1024 @ 60 Hz
Extended Display Identification Data (EDID)

Video Outputs (4 Outputs)

1 x MiniDin, S-video: main monitor
1 x RCA/Phono, composite: main monitor or VCR
1 x RCA/Phono, composite: dual monitor or VCR
1 x DVI-1/XGA: main or second monitor
XGA Output
800 x 600 @ 75 Hz, 1024 x 768 @ 60 Hz,
1280 x 768 (WXGA) @ 60 Hz, 1280 x 720 (HD720p) @ 60 Hz
VESA Monitor Power Management

Video Format

NTSC, PAL, VGA, SVGA, XGA, W-XGA, SXGA and HD720p

People Video Resolution

Native NTSC:

400p (528 x 400 pixels)
4SIF (704 x 480 pixels), Digital Clarity Interlaced SIF (iSIF 352 x 480 pixels), Natural Video
SIF (352 x 240 pixels)

Native PAL:

448p (576 x 448 pixels)
4CIF (704 x 576 pixels), Digital Clarity Interlaced CIF (iCIF 352 x 576 pixels),

Natural Video

CIF (352 x 288 pixels)
QCIF (176 x 144 pixels)
SQCIF (128 x 96 pixels) decode only

Native PC Resolutions:

XGA (1024 x 768)
SVGA (800 x 600 pixels)
VGA (640 x 480 pixels)

Wide Resolutions:

w288p (512 x 288 pixels)
w448p (768 x 448 pixels)
w576p (1024 x 576 pixels)
w720p (1280 x 720 pixels)

Still Image Transfer

CIF, SIF, 4CIF (H.261 Annex D), 4SIF, VGA, SVGA, XGA

Audio Standards & Protocols

G.711, G.722, G.722.1, G.728, 64 bit & 128 bit MPEG4AAC-LD

Audio Features

CD-Quality 20KHz Mono and Stereo
Telephone add-on via MultiSite
Two separate acoustic echo cancellers
Audio mixer
Automatic Gain Control (AGC)
Automatic Noise Reduction
Audio level meters
VCR ducking
Optional Stereo Package
Packet loss management
Active lip synchronization
GSM/Blackberry interference audio feature

Audio Inputs (4 Inputs)

2 x microphone, 24V phantom powered, XLR connector
1 x RCA/Phono, Line Level: auxiliary y (or VCR Stereo L)
1 x RCA/Phono, Line Level: VCR/DVD (Stereo R)

Audio Outputs (2 Outputs)

1 x RCA/Phono, S/PDIF (mono/stereo) or Analogue
Line Level: main audio or Analogue Stereo L
1 x RCA/Phono, Line Level: VCR or Analogue Stereo R

Frame Rates

30 frames per second @ 168 kbps and above
60 fields per second @ 336 kbps and above (Point-to-point)

Dual Stream

DuoVideo
H.239 dual stream
Dynamic bandwidth adjustment (H.323)
Available on H.323 & H.320

Available in MultiSite from any site (95 & 85 MXP only)

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 system. (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 work surface
Light weight aluminum and steel construction
Easy to clean, powder coated finish
Easy Pneumatic front lift for camera height adjustment
Large rear handle for easy cart control
Easy to clean laminate work surface

Storage

Integrated 16" x 8" x 6" storage basket on rear of cart
Optional lockable drawer located under work surface:

Dimensions & Weight

Single monitor mobile system
Diameter: 23.0"
Overall dimensions
Depth: 26.5" (including handle)
Height: 65.5" to top of camera
Mobile system weight 135 lbs. (single monitor without peripherals)

Optional Integrated Peripherals

S-Video Switch (4) Position
Otoscope, Dermoscope, General Exam Camera, Stethoscope
(Customer requested devices upon approval)

Power System

Meets UL60601 leakage current specifications
Automatic power transfer switch for Power System
42 Ah sealed lead acid battery provides up to 4 hours of 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