

CareStation®156s

Motion Media's dual-networking videophone puts a new face on home monitoring

- Familiar, easy to use telephone interface and functionality
- FDA 510k clearance as a Class II medical device
- Interfaces to a broad range of medical peripherals
- Features integrated digital stethoscopy
- Built-in camera and clear, vivid image display
- One button access to caregiver
- Hands-free Audio
- Plugs into standard PSTN phone line and/or broadband connection



Videophone communication improves the reach and effectiveness of care provider services and gives patients greater access to medical practitioners.

Remote video calls promote more frequent interaction between patient and caregiver, fostering better regimen compliance. Plus, home monitoring has made a significant impact on rising costs by letting practitioners call on more patients, while continuing to provide conscientious, quality healthcare to each.

Adds a new dimension

CareStation®156s is as familiar and easy to operate as a telephone, because it is one...with several distinctions.

Like a phone, it plugs into a standard (PSTN) phone line, is dialed using a keypad and has a speakerphone function for hands-free operation.

For increased quality, fast call setup times, and toll-free video calls across the Internet, the CareStation 156s supports broadband IP connections through two 10/100 Ethernet ports.

But CareStation 156s goes beyond voice, incorporating video communication and data transmission capabilities into its compact, all-in-one design. It supports connection to a broad range of medical monitoring devices* for vital signs, blood pressure, glucose, pulse oxymetry, and weight.

Reduces the cost of healthcare

Remote visits by video allow the caregiver to see more patients. The convenience of the CareStation 156s encourages more frequent contact between the practitioner and the patient - especially important for the elderly and home bound. By extending provider resources and fostering patient health maintenance, video telehealth helps lower the overall cost of healthcare.

...while enhancing wellbeing

CareStation 156s facilitates a face-to-face relationship between caregiver and patient, enhancing patient quality of life and providing vital support from the caregiver in:

- Monitoring patient compliance to medications and prescribed regimens, making adjustments to keep health on track.
- Providing timely medical intervention to minimize acute events requiring emergency room visits.
- Lending emotional support for coping with chronic and acute illness.
- Features Integrated Pulse Oximetry Option.
- Allowing the patient to maintain an independent lifestyle.

*requires additional components purchased separately

CareStation®156s



Innovation with vision®



Motion Media

CareStation® 156s

Video in /out

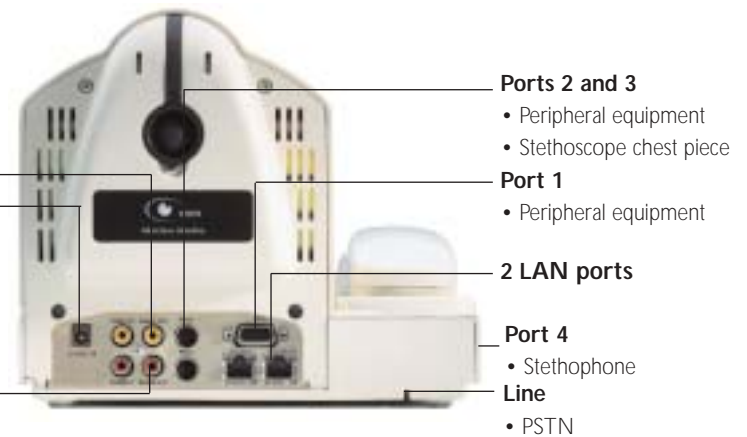
- TV
- VCR
- Monitor
- Camcorder
- Video Camera
- Document Camera

Power

- 12VDC, 2A

Audio in/out

- TV speaker
- VCR
- Camcorder
- External mic with preamp



Ports 2 and 3

- Peripheral equipment
- Stethoscope chest piece

Port 1

- Peripheral equipment

2 LAN ports

Port 4

- Stethophone
- Line
- PSTN

Technical specifications

Specifications subject to change without notice

Communications Protocols Supported

- H.324 over PSTN including proprietary security and control features
- H.323 and PacketBuddy over IP
- Video: H.263, H.261
- Audio: G.723, G.711, G.722
- Capability/Control Protocol: H.245

System performance

- CIF video format: 352 x 288 pixels
- QCIF video format: 176 X 144 pixels
- CIF 7.5 fps, QCIF 15 fps over PSTN
- CIF 15 fps, QCIF 30 fps over IP

Video Inputs

- Internal color 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)

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: RCA
- Format: Line level (-10dbm typical)
- Impedance: 600 Ohms

RS-232 Data Ports

- Connectors: (1) DB9F, 2 via adaptor
- Format: RS-232, DCE Pin-out
- For use with external PTZ cameras, peripherals and PCs
- 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

Network Communications Interface

- Internal V.34 Data modem
- Connector: RJ-11 Jack
- Compatible with standard analog PSTN phone lines
- Speed: Up to 33.6 kbps
- Interface 10/100 Ethernet

- H.323 and PacketBuddy for transmission over non-QoS networks
- IEEE802.3 Ethernet Controller
- 2 x RJ-45 Jack connectors
- User Datagram Protocol (UDP)
- Dynamic Host Control Protocol (DHCP)
- Compatible with standard 802.3 IP based networks
- Configurable IP port addressing for firewall compatibility
- Throughput - 32 to 384 kbps
- Adaptive bandwidth utilisation

Integrated Digital Stethoscope

Chest piece transducer*

- Chest piece: Port# P-9900-00016
- Interface: MiniDin-8
- Assembly cable length: 122cm (48")

Ear piece assembly*

- Ear piece: Port# P-9900-00007
- Interface: 3.5mm (1/8i) stereo jack
- Assembly cable length: 122cm (48")
- *Available separately

Performance

- Frequency Range: 20Hz - 1000Hz
- Sample Rates: 2000Hz, 3200Hz
- Live preview, store and forward operating modes

Software features

- Works as both standard telephone & as videophone
- 50 entry phone book & integrated speed dial function
- 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 selected 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, sizable)
- Image snapshot and privacy modes
- Auto answer mode
- Secure PIN access to remote systems
- On-screen diagnostics and call reporting
- Auto dial on alarm trigger
- Software updates via phone or RS-232 interface
- Call logging
- Synchronise phonebook from master unit over the network

Power

- DC input requirement 12 VDC
- Power consumption <22W active <5W standby
- Power Adapter: UL, CSA & CE listed AC adapter, 100-240VAC, 50-60Hz, 3A Interoperability
- Supports H.323 MCUs, Gateways, Gatekeepers and videoconferencing systems

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

- Standard telephone RJ-11 cable
- Network cable
- Standard audio/video cable (to connect TV or monitor)
- AC power adapter
- User Manual
- Quick Start Guide

Approvals

- FDA 510K Class II Medical Device
- UL, CUL listed
- CE Mark Europe
- FCC Part 15B
- ACTA (FCC) Part 68, CANADA CS-03, CTR 21
- For other countries contact your supplier

Data Port Device Support

- Therasense™ Freestyle™ blood glucose monitor
- CritiCare™ 506DXN2 Vital signs monitor
- Koko Peak™ Peak flow meter
- A&D Medical UA-767PC blood pressure monitor
- A&D Medical UC-321P health scale
- Nonin® ipod™ & Xpod® Pulse Oximeter
- Analogic FETALGARD Lite™ fetal monitor

Expansion Ports

- Port 1: DB9F, RS-232, DCE Pin out
- Port 2: Audio input, Video input, Power Output (Mini-DIN8, RS-232)
- Port 3: Stethoscope input (Mini-DIN8, RS 232)
- Port 4: Stethophone output

Warranty

- One year parts and labour