



CareTone® IP Management System (CIMS)

Independent IP Management Stethoscope System

Connect CareTone Units through an IP Network

CIMS operates independently, without the necessity of a data channel, a videoconferencing system or computer at each clinical location. Using CIMS in concert with simultaneous videoconferencing assists clinicians and physicians in making accurate, remote connections when listening to patient sounds.

- Simplifies the sending of heart and lung sounds via direct connection to the codec.
- Connects to a local area network with the addition of the CareTone adapter.

Uses High-Quality, Crystal Clear CareTone Technology

Using the send and receive units, obtain high-quality real time heart, lung and bowel sounds with the industry leading CareTone Ultra. Combining CIMS with CareTone stethoscopes provides easy, cost-effective auscultation without the necessity of a dedicated computer at either end.

- Send unit contains physician preferred Littmann® Master Classic II chest piece, plus a power indicator light and stereo headphone jack for consultation where there is a clinician at both ends of the video conference.
- Receive unit includes headphones, volume control and a switch to select either bell or diaphragm frequency sounds.
- True-to-life sound reproduction, full-range sensitivity.

The CIMS solution incorporates three devices: CIMS Software (GMD 5020IPMS); Stethoscope Senders w/IP Adapter (GMD 5021IP); Stethoscope Receivers w/IP Adapter (GMD 5022IP)

CIMS Components

Software – Operates on Existing Server or CIMS Server (Sold Separately)

- CIMS Server Software CD.
- Administrator Manual CD.
- Testing Tools:
 - 4-foot CAT5 red crossover cable (used for testing, see the Maintenance section for details).

Stethoscope Receiver Hardware

- CareTone Ultra Stethoscope receiver.
- Power supply – IP Adapter & cabling.
- Headphones.
- Offset standard blade screwdriver.
- Chest piece placement diagram.

Stethoscope Sender Hardware

- CareTone Ultra Stethoscope sender.
- Power supply – IP Adapter & Cabling.
- Patient stethoscope chest piece.
- Headphones.
- Offset standard blade screwdriver.

Works with your PC or Mac and on most popular video codecs including:



Available on



CareTone® IP Management System (CIMS)

SPECIFICATIONS

The CIMS solution incorporates three devices: CIMS Software (GMD 5020IPMS); Stethoscope Senders w/IP Adapter (GMD 5021IP); Stethoscope Receivers w/IP Adapter (GMD 5022IP).

Necessary Configuration to Support CIMS Server (server sold separately)

- IP address with reach from all stethoscopes and potential operator's computer.
- Web traffic (TCP ports 80,443) to be open on firewall.
 - NAT device (if used) must forward traffic for the protocol/port to server.
 - Enables the operator's computer to access web interface.

Necessary Configuration to Support Stethoscope Receiver

- IP address with reach from CIMS server and any potential stethoscope sender.
- Telnet (TCP port 23) open on the firewall.
 - NAT device (if used) must forward traffic for the protocol/port to stethoscope.
 - Provides CIMS Server the capability to communicate with stethoscopes.
- UDP 2101 open on firewall.
 - NAT device (if used) must forward traffic for protocol/port to stethoscope.
 - This is the data stream communication from sender.
- HTTP/HTTPS (TCP ports 80,443) to be open on firewall.
 - NAT device (if used) must forward traffic for protocol/port to the stethoscope.
 - This function is optional though highly recommended as it is used for troubleshooting.

Necessary Configuration to Support Stethoscope Sender

- IP address with reach from CIMS server and any potential stethoscope receiver.
- Telnet (TCP port 23) open on the firewall.
 - NAT device (if used) must forward traffic for the protocol/port to stethoscope.
 - Provides CIMS Server the capability to communicate with stethoscopes.
- HTTP/HTTPS (TCP ports 80,443) to be open on firewall.
 - NAT device (if used) must forward traffic for protocol/port to the stethoscope.
 - This function is optional though highly recommended as it is used for troubleshooting.



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