

Littmann® Sound Quality is Now Available for Telemedicine

3M™ Littmann® Stethoscopes are known for their exceptional sound quality. And the award-winning⁴ 3M™ Littmann® Electronic Stethoscope Model 3200 with Bluetooth® technology is no different. In fact, clinical evidence shows it's easier to hear difficult-to-detect heart and lung sounds with the Littmann® Electronic Stethoscope Model 3200 vs. a high-end cardiology grade stethoscope.¹¬³ Now, this clinically-proven stethoscope has been paired with software that works for tele-auscultation. The digitally-captured sound of a patient is sent across a secure data network to a Littmann® Electronic Stethoscope Model 3200 at a remote site. The consultant operating a different Littmann® Electronic Stethoscope Model 3200 at the remote site hears the digitally-captured sound of the patient. The result is an exceptional sound experience unparalleled in tele-auscultation until now. Hear it. As if you were there.

Don't Miss The Sounds You Need To Hear.

Clinical Evidence

Studies comparing non-electronic, cardiology-type stethoscopes and the 3M[™] Littmann[®] Electronic Stethoscope 3000 Series had these findings:

With the Littmann® Model 3000 Series Stethoscope...

83% of cardiologists indicated it was easier to detect/hear an S3 gallop¹

82% of cardiologists indicated it was easier to detect/hear an aortic regurgitation murmur (Grade 1 or 2)²

90% of critical care nurses indicated it was easier to detect/hear abnormal lung sounds³



Award-winning Technology



State-of-the-Art Sound Sensor

Built to stringent specifications, it provides a life-like 3M Littmann sound experience similar to a high-end cardiology stethoscope.



Onboard 12-Track Recording

Allows up to 12 separate 30-second sound tracks for later playback. Each track is accompanied by an additional 10-second track for verbal comments. Tracks can be uploaded later for store-and-forward consultation.



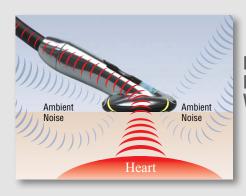
Up to 24X Sound Amplification

Extra listening power for those times when you need it; may be helpful when a heart, lung or body sound is especially faint; when a patient is obese; or when a patient's clothing restricts your listening experience.



Proprietary Ambient Noise Reduction Technology

It cancels out, on average, 85% of ambient background noise that can interfere with the auscultation experience, without eliminating critical body sounds. So you're much less likely to miss the sounds you need to hear in noisy work environments.



How Ambient Noise Reduction Works

The same ambient noise that travels through the air also travels through the body. 3M's proprietary ANR technology cancels out both sources of ambient noise, leaving the critical body sounds you need to hear.



3M™ Littmann® TeleSteth™ System

Delivering an Exceptional Tele-Auscultation Experience

Once in session, the TeleSteth™ System allows clinicians to hear realtime patient body sounds as if they were in the same exam room with the patient. Special software features enable flexible access and seamless communication between the patient site clinician and the consultant.

Access From Virtually Anywhere

Web-based application allows you to join a remote exam room virtually anywhere you have an internet connection.

Independent Filter and Volume Control

Consultant and patient site clinician independently select filter mode (Bell, Diaphragm or Extended Range) and volume level.

Simultaneous Shared User Interface

Consultant and patient site clinician each have the ability to share and adjust the position of the stethoscope site indicator on the body image and use the instant messaging chat window.

Reliable Wireless Bluetooth® Connection Feature

Wireless connection means no cords to get in the way during the auscultation, and no cords to clean between patients.







Interactive TeleSteth™ User Interface

Real-Time Streaming Session

Connect live with another clinician for a remote patient exam.

My Stethoscope

Stethoscope image displays a green check mark when a Model 3200 stethoscope is connected via Bluetooth® wireless technology. A red "x" indicates the stethoscope is not connected.

Body Listening Site

Select from preset sites in the Listening Site drop down menu or point and click to indicate placement of the stethoscope on the body image window.

Active Session Indicator

Side by side computer screen icons switch from red to green when the user is connected in a live session.

Host/Join a Session

Both sending and receiving capability at the click of a button to "Host Session" at the patient site or "Join Session" at the consulting site.

Live Chat

Two-way chat window for real-time streaming sessions allows message sharing between clinicians.

Live Phonocardiogram

View auscultation sounds as they happen through the live waveform display at both the patient and consultant site.



Additional Software Features

The TeleSteth™ System is available as a 3M hosted service or may be purchased as a Client-owned server software with additional features.

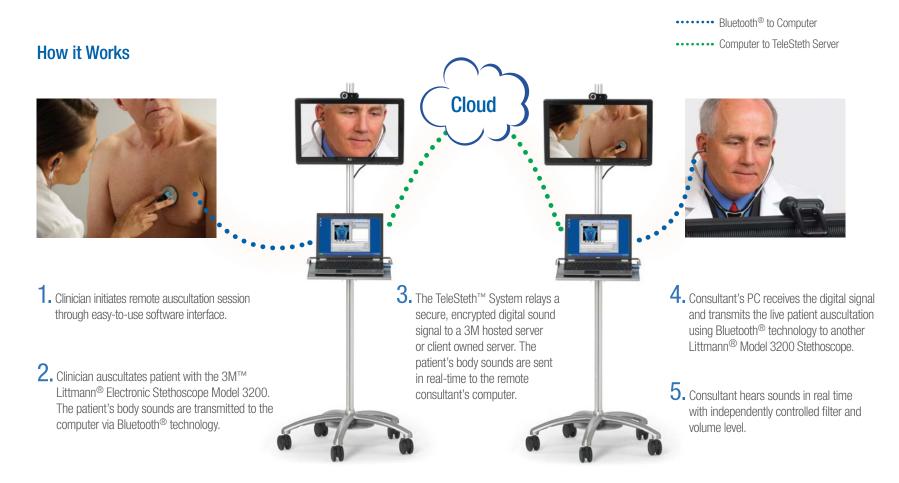
Upload/Download

Store and forward recorded patient auscultation sessions for later reference by a consulting clinician. The TeleSteth™ System store and forward capability limited to Client Server systems only.

My Account

Manage user account settings including contact list, password and security features. Reference user manual and software license terms and conditions.

Simple Steps to Remote Auscultation



The New Standard in Tele-Auscultation

Our Partnership with OTN

OTN is the world leader in telemedicine, helping
Ontarians get more out of the health care system by
bridging the distance of time and geography to bring
more patients the care they need, where and when
they need it. A charter client of Telesteth, OTN uses
this innovative technology to enhance care delivery
for patients. Telesteth can be paired with traditional
videoconferencing systems as well as OTN's new
Personal Videoconferencing desktop computer service.
OTN's use of Telesteth in Telemedicine programs
across Ontario makes this the largest installation of the
equipment in the world.



3M™ Littmann® TeleSteth™ System

System Requirements

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- Windows XP SP3, Vista SP1 or later, or Windows 7
- 512 MB RAM
- 1 gigahertz processor or better
- 1023 x 600 graphic display or better
- USB 1.1 port or better
- Approximately 100kbps bandwidth is required per streaming connection
- Approximately 1MB of storage space is required for each recorded sound track

Security

- All transmitted data is encrypted via SSL encryption
- All stored data is encrypted at both client and server endpoints
- Automated mechanisms detect failed authentication and suspicious server activity with administrator notification

Network Specifications

- "Out-of-band" operation functions in parallel with both software and hardware based videoconferencing codecs
- Configurable for operation on an existing private, public or hybrid network infrastructure
- Adjustable latency to accommodate various network technologies (client server only)
- Requires SSL certificate maintenance for the server (3M will help generate certificate request)
- Configurable for stand-alone user accounts or integration with an existing LDAP authentication server
- Real-time streams use TCP over SSL on ports 1100-1300



Ordering Information

3M™ Littmann® TeleSteth™ System

Description		Catalog Number
3M™ Littmann® TeleSteth™ Software, Hosted Client License		TS1200CL
3M™ Littmann® TeleSteth™ Software, Local Client License [®]		TS1100CL
3M™ Littmann® TeleSteth™ Software, Local Server License		TS1100SL
3M™ Littmann® TeleSteth™ Software, LDAP Integration		TS1100LD
Description	Tubing Color	Catalog Number
3M™ Littmann® Electronic Stethoscope Model 3200	Black	3200BK27
3M™ Littmann® Electronic Stethoscope Model 3200	Burgundy	3200BU
3M™ Littmann® Electronic Stethoscope Model 3200	Navy Blue	3200NB

Visit www.Littmann.ca/Telemedicine for further information.

www.Littmann.ca

References

- 1. Comparison by trained Cardiologists of the 3M™ Littmann[®] Model 3000 Electronic Stethoscope with Ambient Noise Reduction to the 3M Littmann Cardiology III Stethoscope for the detection of recorded third heart sounds (S3) in the presence of simulated ambient noise.
- 2. Comparison by cardiologists of the 3M™ Littmann® Electronic Stethoscope Model 3000 with Ambient Noise Reduction to the 3M™ Littmann® Cardiology III Stethoscope for detection of recorded murmurs in the presence of simulated ambient noise. 70-2009-7406-4
- 3. Comparison by critical care nurses of the 3M[™] Littmann® Electronic Stethoscope Model 3000 with Ambient Noise Reduction to the 3M[™] Littmann® Cardiology III Stethoscope for detection of recorded lung sounds in the presence of simulated ambient noise. 70-2009-7405-6
- 4. 3M[™] Littmann® Electronic Stethoscope Model 3200 and Zargis Cardioscan Software were given the following awards: Red Dot Design Award (March 2010), Medical Design Excellence Awards (June 2010), *Popular Science* magazine's 2009 Innovation of the Year Health Grand Award Winner (November 2009), Edison Award–Gold Award in the Electronics and Computers category (April 2010).
- 5. Hosted server is based in the US.



Available in Canada from: **3M Health Care 3M Canada Company** P.O. Box 5757 London, Ontario N6A 4T1 Canada 1 800-364-3577 www.littmann.ca

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