

3M™ Littmann®  
Electronic Stethoscope Model 3200  
with  Bluetooth® Technology

Now  
Records  
up to 12 separate  
30-second sound  
tracks for later  
playback



3200

Redefining  
what a  
stethoscope  
can do for you





The Littmann® Electronic Stethoscope Model 3200.  
Your gateway to a new world of auscultation possibilities.

# Now auscultation is just the beginning.

The 3M™ Littmann® Electronic Stethoscope Model 3200 provides the sound quality and auscultation experience you've come to expect from Littmann® Stethoscopes. But it also opens up more assessment possibilities than you've ever experienced with a stethoscope before. When you see all it offers, you may never want to go back to your old stethoscope again.

**Visualize** heart and lung sounds using Zargis® StethAssist® software, included FREE with every Littmann® Electronic Stethoscope Model 3200.

**Detect and classify** suspected heart murmurs while with your patient, using available Zargis® Cardioscan™ software.

**Provide** patient care remotely, live, with a consulting clinician, using 3M™ Littmann® Scope-to-Scope Tele-Auscultation System.

**Reduce** unwanted noise by an average of 85%, thanks to proprietary Ambient Noise Reduction (ANR) technology.

**Transfer** sounds to a PC to save for future analysis, using Bluetooth® technology. These sounds can then be further analyzed, attached to medical records, or reviewed online with colleagues.

NEW!

**Record** up to 12 separate 30-second sound tracks for later playback. Each track is accompanied by an additional 10-second track for verbal comments. Helpful when seeking a peer opinion or when you are writing up notes after your patient has left.



TM

Included FREE

Zargis® StethAssist™  
Heart and Lung Sound  
Visualization Software

# Visualize heart and lung sounds.

Designed to visualize what you are hearing, allows playback when and where convenient, facilitate storage of sounds in patient records or transfer to colleagues for further analysis.

- Connects wirelessly to the Bluetooth®-enabled Littmann® Electronic Stethoscope Model 3200 for easy, real-time analysis
- Displays and prints sounds as phonocardiogram
- Playback in bell, diaphragm or extended range frequency modes
- Play recordings at half speed to listen even more closely
- Save patient information for future comparison
- Send as an e-mail attachment



Zargis® StethAssist™ detailed view.

Connect to optional ZargisTelemed.com share recordings and findings online with colleagues across town or across the globe.

Play recordings at half speed to listen more closely.

Multiple view options for more detailed analysis.

Click on any recording site to listen to recorded sounds while viewing graphical overlay of heart sounds.

Sold Separately  
Zargis® Cardioscan™  
Heart Sound  
Analysis Software

# Detect and classify suspected heart murmurs.

## Designed to support physicians in analyzing cardiac sounds for the identification and classification of suspected murmurs.

- Connects wirelessly to the Bluetooth®-enabled Littmann® Electronic Stethoscope Model 3200 for easy, real-time analysis
- Identifies suspected murmurs that suggest a Class I Indication for echocardiography referral
- Identifies suspected systolic and diastolic murmurs
- Graphically displays shape and timing of suspected murmurs
- Enables improved documentation of referral findings
- Allows results to be stored on your PC or online for serial studies
- Review results when and where convenient and plays recordings at half speed to listen more closely
- Helps you hone your own auscultation skills as you compare the diagnosis with software findings
- May alleviate concern about misdiagnosing murmurs
- Identifies S1 and S2 sounds

## Clinical Evidence

According to a retrospective study published in *Clinical Cardiology* in 2008,<sup>2</sup> physicians using Zargis® Cardioscan™ results reduced their false negative referral decisions for heart murmurs by an average of 46% and reduced their unnecessary referral decisions by an average of 41%.



Zargis® Cardioscan™ summary view.

Connect to optional ZargisTelemed.com share recordings and findings online with colleagues across town or across the globe.

Click on any recording site to listen to recorded sounds while viewing graphical overlay to heart sounds.

Displays a summary finding of whether or not a heart murmur is suspected.

Draws red boxes around suspected heart murmurs.

## Clinical Perspective

95% of cardiologists indicated that Zargis® Cardioscan™ would help primary care physicians improve detection of heart murmurs associated with heart disease.<sup>1</sup>

To order or learn more about Zargis® Cardioscan™ or the ZargisTelemed.com portal, visit [zargis.com](http://zargis.com).

Sold Separately  
3M™ Littmann®  
Scope-to-Scope  
Tele-Auscultation System

# Provide patient care remotely.

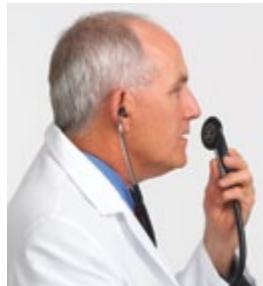


Designed to effortlessly send digitally-captured sounds across a secure data network to a Littmann® Model 3200 stethoscope at a remote site.



#### Remote Filter Selection.

The consultant can instantly change the frequency range of the patient sound from bell, diaphragm and extended range on both the consultant and auscultating clinician's stethoscopes.



#### “Talk-Through” Communication Feature.

The discreet “talk-through” feature allows the consultant to guide the auscultating clinician, while continuing to listen to the patient through the stethoscope's eartips.



## Hear it as if you were there.

3M™ Littmann® Scope-to-Scope Software, paired with the Littmann® Model 3200 stethoscope, has broken through the sound quality barrier, transforming the tele-auscultation experience. Until now, tele-auscultation was limited by inadequate sound quality and a complex set-up process. The Littmann® Scope-to-Scope Tele-Auscultation System eliminates these limitations with a user-friendly design and phenomenal sound quality. The result: an unparalleled auscultation experience allowing you to hear clearly across data networks in real time, anywhere in the world. You can detect difficult-to-hear body sounds with great clarity, as if you were right there performing the patient exam yourself.

To order or learn more about Littmann® Scope-to-Scope Tele-Auscultation System, visit [littmann.com/scopetoscope](http://littmann.com/scopetoscope)

3200

In addition to heart,  
lung and body sounds,  
the sound of praise.

**Edison Award – Gold Award in the  
Electronics and Computers category**

April 2010

**Red Dot: “Best of the Best” Award  
for product design, given by Design  
Zentrum Nordrhein Westfalen**

March 2010

**Medical Design Excellence  
Awards - Gold Award presented  
by Canon Communications, LLC**

June 2010

**Popular Science magazine’s 2009  
Innovation of the Year**

**Health Grand Award Winner**

November 2009



<b>Internist</b>	“Acoustically superb, excellent diagnostic instrument.”
<b>Internist</b>	“Offers a marked reduction in unwanted ambient noise when I listen for abnormal heart sounds.”
<b>MD - Emergency Medicine</b>	“Helped me discover a carotid bruit that I wasn’t able to hear with my conventional stethoscope.”
<b>MD - Pediatrician</b>	“I was immediately impressed with the acoustic clarity of hearing heart tones and murmurs, and the ability to discern penumonias at an earlier treatment stage.”
<b>MD - Pediatrics and Family Medicine</b>	“The ambient noise reduction is excellent, especially in a treatment room with two active kids. And breath sounds are much easier to analyze.”
<b>Cardiovascular Nurse</b>	“I was able to quickly pick up difficult to hear heart murmurs that my peers with many more years of experience had trouble differentiating using a conventional stethoscope.”
<b>Cardiovascular Nurse</b>	“Allows me to easily differentiate between high and low frequency sounds even when alarms and other ambient noise surrounds me.”
<b>Nurse Practitioner</b>	“I can record, then listen, slow it down, identify it, listen in real time, then go back to the individual with the heart sound and listen through the stethoscope.”

Call 1-800-413-1795 today for a free 14-day trial of the  
Littmann® Electronic Stethoscope Model 3200 (U.S. only).

# Hardware that's every bit as innovative as the software.

Ambient noise reduction technology

Volume control

State-of-the-art sound sensor

Frictional noise reduction technology



# Don't miss the sounds you need to hear.

The 3M™ Littmann® Electronic Stethoscope Model 3200's sound capabilities deliver an exceptional auscultation experience. Clinical evidence shows that it's easier to detect difficult-to-hear heart sounds, like S3 gallops, aortic regurgitation murmurs, and abnormal lung sounds. Here's why:



## 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. A full 13% better than previous models.



## Acoustic Seal Eartips

Not only do our patented 3M™ Littmann® Snap Tight Soft-Sealing Eartips provide a comfortable fit, they also create an excellent acoustic seal. It means a tighter seal from ambient noise entering through eartip connections.



## State-of-the-Art Sound Sensor

Built to stringent specifications, it provides a life-like 3M™ Littmann® Stethoscope sound experience similar to a high-end cardiology stethoscope. The sound received from the sensor is transmitted naturally to ears through the tubing.



## Frictional Noise Reduction Technology

A number of changes in the chestpiece help reduce handling noises compared to earlier electronic stethoscopes. It's less distracting. So it helps you focus more on what you need to hear.



## 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.

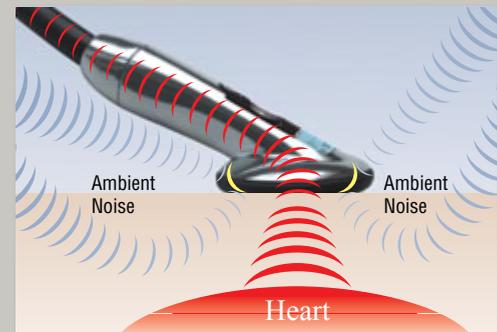


## Three Filter Modes

The Littmann® Model 3200 stethoscope circuitry provides three filter modes that emphasize specific frequencies for optimal heart and lung auscultation:

- Bell (20-200 Hz)
- Diaphragm (100-500 Hz)
- Extended Range (50-500 Hz)

## 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.



# The user interface you've been waiting for.

Incredibly simple. Non-disruptive to your auscultation workflow.



## Easy to Operate

Dedicated controls for power on/off, bell/diaphragm/extended range frequency modes, and (+) and (-) buttons to adjust sound level up or down.

Proprietary Ambient Noise Reduction (ANR) technology is always there when stethoscope is on.

And a menu button that brings you to screen-guided commands to operate recording and Bluetooth® features, and customize start-up settings, all in view while you auscultate.

## Convenient LCD Interface

Advises you of current sound level, and if you are in bell, diaphragm, or extended range frequency mode.

Indicates remaining battery life and when Bluetooth® transmission is active.

Patient heart rate displays after just five seconds, then updates every two seconds.

A quick touch of the power button activates backlight for low-light conditions.



## Bluetooth® Technology

Press to use Bluetooth®, record a sound, or customize start-up settings

## Record up to 12 sound tracks and transfer them for further analysis.

M button starts up Bluetooth® technology to wirelessly transmit heart and lung sounds to your PC for further analysis or transfer to patient records. Quick and simple. No cords required.

M button may also be used to record and store an interesting sound for playback on the stethoscope, or transfer a sound to a PC.

## Auto-on Feature

No waiting to start your next auscultation. Stethoscope stays in battery-saving "sleep mode" until you start your next auscultation. Always ready when you are.

## Worry-free Power

Multiple reminders when battery life is low. Tool-free access to battery compartment. Operates on single AA battery. Compatible with lithium batteries if additional battery life is desired.

## Lightweight and Comfortable to Use

About the same weight as a cardiology-grade acoustic stethoscope. Traditional tubing design drapes comfortably over the neck, and folds easily into a pocket. 3M™ Littmann® patented soft-sealing eartips in two sizes for a custom fit. Non-chill diaphragm for patient comfort.

## Rugged Design for Years of Trouble-free Operation

Durable metal chestpiece. Designed to withstand the rigors of your busy work day. Performance tested to withstand accidental drops to the floor and impacts against bed rails and door frames. Two-year eartip-to-diaphragm warranty.

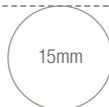
## Don't Forget

Visit the 3M™ Littmann® Learning Institute online at: [www.littmann.com/education](http://www.littmann.com/education)

**FREE** online module contains 14 Lessons on the most frequently heard heart sounds. Complete with waveforms and 3D Technology.

**FREE** App for i-platforms allows user to build sounds from S1 to full heart sounds. 3D animation and waveforms accompany sound.

**Check often as new modules are continuously in development!**



Centered sound sensor has a diameter of 15mm. Shown here at actual size.

## Auscultating Patients of Different Sizes

The 3M™ Littmann® Electronic Stethoscope Model 3200 has a flat diaphragm for placement stability, but all sound pick-up happens at the center. So it's sized right for infants or adults. And the 24X amplification may be helpful when auscultating through the body of obese patients.

## 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 gallop<sup>3</sup>
- 82% of cardiologists** indicated it was easier to detect/hear an aortic regurgitation murmur (Grade 1 or 2)<sup>4</sup>
- 90% of critical care nurses** indicated it was easier to detect/hear abnormal lung sounds<sup>5</sup>

### When using a non-electronic, cardiology-type stethoscope vs. the Littmann® Model 3000 series Stethoscope...

- Cardiologists missed an S3 gallop **40% MORE OFTEN**<sup>3</sup>
- Cardiologists missed a Grade 2 aortic regurgitation murmur **5 TIMES MORE OFTEN**<sup>4</sup>
- Critical care nurses misidentified whether a sound was normal or abnormal **TWO TIMES MORE OFTEN**<sup>5</sup>

## Try the Littmann® Model 3200 Today!

Visit [www.Littmann.com/Model3200](http://www.Littmann.com/Model3200) for an interactive demo. Or call 1-800-413-1795 for a free 14-day trial (U.S. only).

# Ordering Information

## 3M™ Littmann® Electronic Stethoscope Model 3200

Description	Tubing Color	SKU
3M™ Littmann® Electronic Stethoscope Model 3200 27" length (69cm)	Black Navy Blue Burgundy	3200BK27 3200NB 3200BU
3M™ Littmann® Scope-to-Scope Software Starter Kit. Includes 3M™ Littmann® Electronic Stethoscope Model 3200 (black tubing) and software. (Needed for each remote and consulting location)		3200TMC
Zargis® Cardioscan™ Heart Murmur Detection Software		www.zargis.com

To learn more about the Littmann® Model 3200, and all 3M™ Littmann® stethoscopes, visit us on the Web at [www.Littmann.com](http://www.Littmann.com). Or call the 3M Health Care Helpline at 1-800-228-3957.

Caution: Federal law restricts this device, and Zargis® Cardioscan™, to sale by, or on the order of, a physician.

# www.Littmann.com

<sup>1</sup> Based on findings from interviews, conducted by 3M in collaboration with Zargis Medical, with interested cardiologists at the American College of Cardiology (ACC) 57th Annual Scientific Session (March 29, 2008–April 1, 2008, Chicago, Illinois). N = 39.

<sup>2</sup> Clinical study conducted in 2005 by Zargis Medical in collaboration with The Johns Hopkins University School of Medicine. The study measured the accuracy of a group of primary care physicians in evaluating a set of 100 recorded heart sounds. The heart sounds were independently evaluated by each physician both with and without access to Cardioscan's reported findings. *Clin Cardiol*. 2008 Feb;31(2):79-83. *The impact of computer-assisted auscultation on physician referrals of asymptomatic patients with heart murmurs*. Watrous RL, Thompson WR, Ackerman SJ.

<sup>3</sup> 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.

<sup>4</sup> 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

<sup>5</sup> 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

# 3M

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