

3M™ Littmann®  
Electronic Stethoscope Model 3200

with  Bluetooth® Technology

# 3200



Hear it  
Record it  
Send it



**3M**

# Powerful Capability Incredible Simplicity

Redefining what a stethoscope can do for you.

## Hear it.

State-of-the-art sound sensor.

Proprietary Ambient Noise Reduction (ANR) technology.

Amplification capability when sounds are soft.

## Send it.

Bluetooth® technology lets you wirelessly transmit sounds real-time to your PC for further analysis, attachment to electronic medical records, or for reviewing online with colleagues.

## Record it.

Capture a sound for later playback. Helpful when seeking a peer opinion, or when you are writing up notes on your patient's condition after your patient has left.

## Confirm it.

Visualize heart and lung sounds using Zargis® StethAssist® software, included FREE with every 3M™ Littmann® Electronic Stethoscope Model 3200.





# Sound quality so exceptional

The 3M™ Littmann® Electronic Stethoscope Model 3200's exceptional sound capabilities deliver an exceptional auscultation experience. Studies show 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 10% 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® 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.

# Exceptional Sound Quality Real-Time Diagnostics



Ambient noise  
reduction technology

Frictional noise  
reduction technology

State-of-the-art  
sound sensor

TM

# 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 frequency, and (+) and (-) buttons to adjust sound level up or down.

Proprietary Ambient Noise Reduction Technology is always there when the stethoscope is on.

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

## 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.

## Convenient LCD Interface

Advises you of current sound level, and if you are in bell or diaphragm 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 back-light for low-light conditions.

## Worry-Free Power System

Multiple reminders when battery life is low.

Tool-free access to battery compartment.

Operates on a single AA battery.

Compatible with lithium batteries if additional battery life is desired.

## Lightweight & 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.

Comes with two sizes of 3M™ Littmann® Snap Tight Soft-Sealing Eartips for a custom fit.

Non-chill diaphragm for patient comfort.





### Transfer Sounds 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 the sound to a PC.



15mm

Centred 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.





Included FREE

# Zargis® StethAssist™

## Heart and Lung Sound Visualization Software

Designed to visualize what you are hearing, allow 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® Model 3200 stethoscope for easy, real-time analysis
- Display and print sounds as phonocardiogram
- Playback in bell, diaphragm or extended range
- Play recordings at slow 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 slow 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 to heart sounds.

# Clinician's Experience

In studies comparing non-electronic, cardiology-type stethoscopes and the 3M™ Littmann® Electronic Stethoscope 3000 series:

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**83% of cardiologists** indicated it was easier to detect/hear an S3 gallop...<sup>1</sup>

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

**90% of critical care nurses** indicated it was easier to detect/hear abnormal lung sounds...<sup>3</sup>

... with the Littman® Stethoscope 3000 series.

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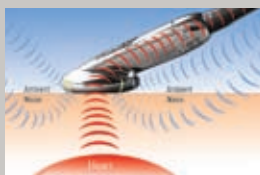
Cardiologists missed an S3 gallop **40% MORE OFTEN**...<sup>1</sup>

Cardiologists missed a Grade 2 aortic regurgitation murmur **5 TIMES MORE OFTEN**...<sup>2</sup>

Critical care nurses misidentified whether a sound was normal or abnormal **TWO TIMES MORE OFTEN**...<sup>3</sup>

... when using a non-electronic, cardiology-type stethoscope vs. the Littman® Stethoscope 3000 series.

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ANR technology acoustically cancels out an average of 85% of distracting room noise.

This acoustic cancelling effect is different to electronic filtering, which may also filter out some portions of body sounds.

## How Ambient Noise Reduction (ANR) works.

Ambient noise isn't just in the air: it also travels through the patient's body. The key to reducing ambient noise is to address both pathways, and ANR does just that without filtering away important sounds. Noise from the room enters the stethoscope through a thin gap in the chestpiece and, once inside, meets noise that enters through the body.

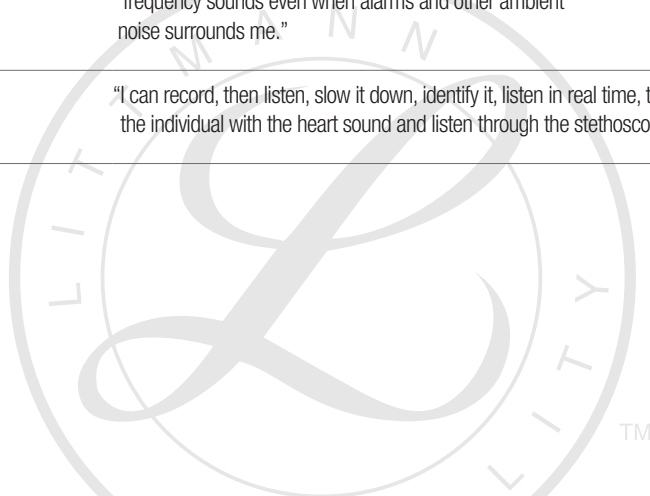
The two cancel each other out, leaving the heart, lung and other body sounds you want to hear.

# Real Life Observations




## Why so many clinicians love the 3M™ Littmann® Stethoscope Model 3200 sound experience

To read the full stories, visit [www.Littmann.co.uk](http://www.Littmann.co.uk)

Internist	"Acoustically superb, excellent diagnostic instrument."
Internist	"Offers a marked reduction in unwanted ambient noise when I listen for abnormal heart sounds."
MD - Emergency Medicine	"Helped me discover a carotid bruit that I wasn't able to hear with my conventional stethoscope."
Paediatrician	"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."
MD - Paediatrics and Family Medicine	"The ambient noise reduction is excellent, especially in a treatment room with two active kids. And breath sounds are much easier to analyze."
Cardiovascular Nurse	"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."
Cardiovascular Nurse	"Allows me to easily differentiate between high and low frequency sounds even when alarms and other ambient noise surrounds me."
Nurse Practitioner	"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."



# Ordering Information

Description	Colour Choices	Catalogue Number
3M™ Littmann® Electronic Stethoscope Model 3200 - 69 cm length	 Black	3200BK27
	 Navy Blue	3200NB
	 Burgundy	3200BU

<sup>1</sup> 191 cardiologists, the overwhelming majority of whom had not previously used the 3M™ Littmann® 3000 stethoscope series listened to pre-recorded heart sounds with and without an S3 gallop of two different magnitudes, presented in random order and in the presence of 70-75 dB ambient noise. They listened with both a Littmann 3000 series and an acoustic (non-electronic) cardiology-type stethoscope.

<sup>2</sup> 100 cardiologists listened to pre-recorded heart sounds with and without a Grade1 or Grade 2 aortic regurgitation murmur, presented in random order in the presence of 70 –75 dB ambient noise. They listened with both a Littmann 3000 series and an acoustic (non-electronic) cardiology-type stethoscope.

<sup>3</sup> 136 Critical care nurses listened to, and were asked to identify, pre-recorded normal and abnormal lung sounds presented in the presence of 70-75 dB ambient noise, using a Littmann 3000 series and an acoustic (non-electronic) cardiology-type stethoscope.

