

3M™ Littmann®  
Electronic Stethoscope Model 3100

3100



Listen  
with Confidence



# Sound quality so exceptional

You might never go back to your old stethoscope.

The 3M™ Littmann® Electronic Stethoscope Model 3100'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:



## State-of-the-Art Sound Sensor

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



## Proprietary Ambient Noise Reduction Technology

Proprietary technology reduces, on average, 85% of ambient background noise that can interfere with the auscultation experience. For the full story visit [www.Littmann.co.uk](http://www.Littmann.co.uk).



## Frictional Noise Reduction Technology

A number of subtle design 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.

# It all adds up to a great auscultation experience

## Listen with confidence

Straightforward controls  
with customisable features

An LCD interface  
to guide you



# The user interface you've been waiting for

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 stethoscope is on.

Menu button brings you to screen-guided commands to customise your start-up settings.

## Convenient LCD Interface

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

Indicates remaining battery life.

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.

## 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.



## Auto-on Feature

No waiting to start your next auscultation.

Once on, stethoscope stays in battery-saving “sleep mode” until you start your next auscultation.

Always ready when you are.

## Worry-Free Power System

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.



### LCD Interface with Backlight

Once on, a quick touch of the power button activates the backlight. Holding it down for two seconds completely powers down the stethoscope.



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

### Auscultating Patients of Different Sizes

The 3M™ Littmann® Electronic Stethoscope Model 3100 has a flat diaphragm for stability, but all sound pick-up happens at the centre. So it's sized right for infants or adults, and the 24X amplification may be helpful when auscultating through the body of obese patients.

# Clinicians' Experience



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

**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>

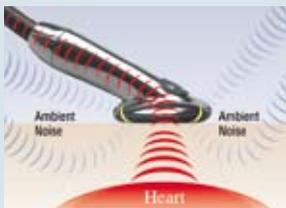
... with the Littmann stethoscope 3000 series.

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 Littmann stethoscope 3000 series.



ANR technology acoustically cancels out an average of 85% of distracting room noise. This acoustic canceling 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 appreciate the 3M™ Littmann® Stethoscope 3000 series sound experience

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

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### Anesthesiologist

"Helps me pick up subtle, critical changes in breath sounds, even in the noisy operating room and pre-op areas."

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### Cardiovascular Nurse

"Quiets the buzzing and humming of many machines when trying to listen to lung, heart and abdominal sounds."

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### EMT

"Enables me to hear in the back of a screaming ambulance."

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### Internist

"Offers a marked reduction in unwanted ambient noise when I listen for abnormal heart sounds."

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### Nursing Student

"Blocks out virtually all ambient noise and is comfortable too!"

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### Paediatric Nurse

"I can listen to patients on ventilators in the ICU even while nurses and doctors are talking and alarms are sounding."

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### Paediatrician

"Makes hearing children's cardiac and respiratory sounds much easier, even with other children running around."

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### Respiratory Therapist

"Allows me to hear the very faint wheezes and crackles that I couldn't hear with a conventional stethoscope."

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# Ordering Information

Description	Colour Choices	Catalogue Number
3M™ Littmann® Electronic Stethoscope Model 3100 - 68 cm length	 Black	3100BK27
	 Hunter Green	3100HG
	 Navy Blue	3100NB
	 Burgundy	3100BU
	 Plum	3100PL

[www.Littmann.co.uk](http://www.Littmann.co.uk)

## In Controlled Experiments

- 1) 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.
- 2) 100 cardiologists listened to pre-recorded heart sounds with and without a Grade 1 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.
- 3) 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.



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