# INTRODUCTION

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Why Welch Allyn?

When you consider acquiring your first diagnostic instruments, it’s important to be sure you’re making the right choices. Your first choice is when to acquire your own instruments. The medical equipment presented here will be critical to your success in gaining the physical diagnosis skills that are fundamental to clinical practice. Investing in this equipment now will enable you to learn what you need to learn better and faster, because of the endless opportunities it will provide you to practice and perfect these skills on your peers, family members, and friends. The instruments you will consider here are as essential to you as a hammer is to a carpenter.

Your second choice is which brand of instruments you should buy. With nearly 100 years of experience designing and manufacturing innovative medical diagnostic instruments — and with the latest advances in physical diagnostic technology on the market today — Welch Allyn is the right choice. The instruments you will consider here are of the highest quality, and thousands that have gone before you have told us they literally last a lifetime.

From our beginnings in 1915 with the invention of the world’s first hand-held direct illuminating ophthalmoscope to our latest innovations like the PanOptic™ Ophthalmoscope and the MacroView™ Otoscope, Welch Allyn has long been the leader in diagnostic instruments. The proof? Ninety-five out of 100 physicians in the United States own Welch Allyn instruments — and count on them daily to help diagnose and treat their patients.

We’ll be there

Our diagnostic instruments are rugged, durable, and dependable. We are so confident of the quality of our products, that no matter what you buy — whether it’s a stethoscope, ophthalmoscope, otoscope, or even the lamp inside — we give you an enhanced warranty for the time while you’re a student and your first two years of residency (the only thing we do not cover is loss or theft).

If you drop it and it breaks, we’ll repair or replace it. That’s our guarantee, plain and simple.

So choose Welch Allyn. We’ll be there for you.

Warranty Information

Diagnostic Sets
When you have completed your medical education and residency, Welch Allyn will continue to repair or replace, free of charge, for the expected life of the product, any parts of our manufacture in your 3.5 V Diagnostic Set that prove to be defective for reasons other than misuse, neglect, damage during shipment, or normal wear and tear.

Tycos® Classic Sphygmomanometers
Tycos Classics feature a lifetime calibration warranty.

Trigger Hand Aneroid
The Trigger Hand Aneroid carries a 15-year calibration warranty.

Welch Allyn Cardiology Stethoscopes
The Elite® and Harvey™ DLX stethoscopes carry a 10-year warranty that will be extended at no charge, to cover your student and resident years, if necessary.

Professional Stethoscopes
The Professional stethoscopes carry a 5-year warranty that also will be extended to include all your student and resident years.
**3.5 V PanOptic™ Ophthalmoscope**

A view of the fundus that’s **5X larger**

Revolutionary new technology for a difference you can see. Developed and patented by Welch Allyn—creator of the world’s first hand-held, direct illuminating ophthalmoscope—the PanOptic™ Ophthalmoscope is a breakthrough concept in ophthalmoscopy. Thanks to an innovative, proprietary optical design known as Axial PointSource™ Optics, the PanOptic Ophthalmoscope will greatly simplify your learning and performing funduscopic exams.

**What is the ophthalmoscope and what can be seen with it?**

The ophthalmoscope is used to view the back of the eye, commonly called the fundus. This is the only place where arteries, veins, and nerves can be seen without surgically entering the patient. A good view of the fundus will not only give an indication as to the health of the eye, but will also tell you a lot about the patient’s overall health. The effects of diabetes, hypertension, and neurological problems can be detected and followed with the ophthalmoscope.

**What are the advantages of using the PanOptic Ophthalmoscope?**

The PanOptic Ophthalmoscope offers:

- Fast, easy entry into small, undilated pupils.
- Superior views of the fundus—a field of view that is 5X larger than you see with standard scopes in an undilated eye.
- A staggering 25° field of view versus the 5° field of view of standard scopes.
- Greater working distance between practitioner and patient, improving comfort.
- A 26% increase in magnification, making it easier to see retinal details.

**Field of View**

| Standard | PanOptic Ophthalmoscope |

5X larger view of the fundus

**Instrument Head | Lenses | Filters | Optical System**

| Dynamic focusing wheel for more precise control | Daily PointSource Optics | Built-in Glare Extinguishment System | Patented Axial PointSource Optics |

**Patient eyecup:** The eyecup establishes and maintains proper viewing distance, provides image stability, serves as a pivoting point for panning around the retina, helps with orientation, and screens out ambient light. The eyecup is cleanable and reusable.

**Soft grip handle:** Ergonomically designed for maximum comfort, balance, and access to controls.

**Patented Glare Extinguishment System:** Prevents interference from unwanted glare and reflections.

**Dynamic focusing wheel:** Continuous, smooth action for more precise control and optimum view.

**Aperture dial:** Allows you to select from micro, small, and large spot sizes, slit aperture, red-free and cobalt blue filters.

**Axial PointSource Optics:** Easy entry into undilated pupils, resulting in a view of the fundus that’s 5X larger than standard ophthalmoscopes.
Axial PointSource™ Optics

What makes the PanOptic™ Ophthalmoscope so revolutionary? Quite simply, it’s Welch Allyn’s Axial PointSource Optics. By converging the illumination to a point at the cornea, Axial PointSource Optics allows easy entry into even the smallest pupils. It then enables the illumination pathway to diverge to the retina, creating a very wide illuminated area of the fundus.

Simultaneously, the scope’s unique viewing system allows the practitioner to see the illuminated area on virtually the same axis, creating the widest field of view attainable in undilated ophthalmoscopy. This means the practitioner is actually viewing the fundus through the mirror that directs illumination into the eye, maximizing the alignment of the viewing axis with the illuminated area.

The bottom line? Welch Allyn’s PanOptic Ophthalmoscope provides a dramatic difference you can see right away. And that translates into easier, more complete funduscopic exams for you—the first time and every time.

For more information on the PanOptic Ophthalmoscope, visit www.panoptic.welchallyn.com.
3.5 V Coaxial Ophthalmoscope

Traditional quality, reliability, and performance

In keeping with the tradition of superior ophthalmic instruments, Welch Allyn’s Coaxial Ophthalmoscopes provide benefits over standard ophthalmoscopes including easier entry into the eye, a larger field of view, reduced glare, and bright, white Halogen HPX™ light.

What apertures or “programs” of light are commonly used during a patient exam?

The majority of the time you will use the small aperture. This is the standard aperture for the examination of an undilated eye. The other two apertures you will use most often are the micro-spot and the large.

- **Small Aperture**: Provides easy view of the fundus through an undilated pupil. Always start the examination with this aperture and proceed to micro-spot aperture if pupil is particularly small and/or sensitive to light.
- **Large Aperture**: For dilated pupil examination of the eye.
- **Micro-Spot Aperture**: Allows easy entry in very small, undilated pupils, and light-sensitive eyes.

What is the purpose of the two colored filters?

- **Red-Free Filter**: Excludes red rays from examination field for easy identification of veins, arteries, and nerve fibers.
- **Cobalt Filter**: Used with fluorescein dye to view small lesions, abrasions, and foreign objects on the cornea.

### Instrument Head

- **Lenses**: 28 lenses
- **Filters**: Cross-linear polarizing
- **Optical System**: Coaxial optics

Coaxial Ophthalmoscope head shown with Lithium Ion Power Handle

| Coaxial optical system: Provides greater field of view and easier entry into patient’s pupil |
| Aperture selection dial: Offers six apertures, including the micro-spot |
| Compact head design: For ease of use; convenient access to all controls |
| Triple-sealed ophthalmoscope: Keeps dust from reaching optics |
| Cross-linear polarizing filter: Eliminates unwanted reflections |
| Lens selection disc: Offers easy, fast, one-hand selection of focusing lenses |
The Welch Allyn Coaxial Vision System virtually eliminates shadowing, allowing you to see a much larger portion of the fundus when compared to a standard flat-mirror optical system. Our coaxial system brings the lines of vision and illumination closer for easier entry of light into the pupil and a larger field of view. In short, it makes the job of learning ophthalmoscopy easier.
3.5 V Lithium Ion Power Handle

What is the new “Smarter” battery technology?

The Lithium Ion Power Handle’s new technology provides twice the on-time with just half the weight. This “Smarter” technology also means no memory effect, often found in NiCad batteries. We also offer a low-battery indicator.

How do I adjust the power handle for maximum comfort?

When you remove the charger module, the Lithium Ion Handle becomes the smallest, full-size 3.5 V handle available. The charger module can also be left attached for enhanced convenience and comfort for larger hands.

How do I recharge the batteries?

The Lithium Ion Power Handle’s AC charging module can be plugged into any 110 V outlet by clicking out the module’s retractable AC prongs and plugging it in.

Welch Allyn’s next-generation power handle features “Smarter” lithium ion battery technology. The Lithium Ion Handle powers any 3.5 V instrument head for 110 minutes—twice as long as a conventional handle. Its rugged CYCOLOY® resin construction and flexible, ergonomic design make the Lithium Ion Handle more comfortable for any sized hand. ETL listed for medical safety standards.

Recyclable battery.

Please return expended rechargeable batteries to Welch Allyn for recycling.
Wherever you are, you can power your Welch Allyn 3.5 V convertible handle

Use either rechargeable or C-cell batteries with Welch Allyn’s 3.5 V convertible power handle. Even if you’ve forgotten to recharge your battery or are practicing somewhere without available electricity, remove the transformer module, insert two C-cell batteries and converter ring (included), and continue your diagnostic exams.

When would the convertible handle most likely be used?
The convertible handle is a lifesaver if you are on call or taking an exam and have forgotten to recharge the battery. Also, the convertible handle is very useful when you are working overseas or in areas where it is difficult to find electricity.

How does this handle work with either rechargeable or C-cell batteries?
Simply remove the rechargeable battery and transformer, and replace with two C-cell batteries and a converter.

How do I recharge nickel cadmium batteries?
Our convenient built-in charger allows you to plug into any conventional 110 V wall outlet for overnight recharging.
What is the otoscope used for?
The otoscope is used to view the tympanic membrane and external ear canal to diagnose outer and middle ear pathologies.

How does the Welch Allyn otoscope convert to a throat or nasal illuminator?
Hold the throat illuminator’s collar stationary (the black portion below the silver ring) and twist the otoscope section loose until it is removed. The throat illuminator is now ready for use.

Optional Nasal Illuminator Attachment
Optional fiber optic nasal illuminator attachment with 9 mm distal opening quickly twists onto the throat illuminator base for full view of nasal passages.

How durable is the Welch Allyn otoscope?
Extremely durable. Check out the busiest hospital and physician exam rooms to see what otoscope they use when durability counts. Welch Allyn otoscopes are engineered and manufactured for precision and longevity:

- They are manufactured with metal and high-impact ABS material.
- They have reinforced, flush-mounted fiber optics.
- A metal, flush-mounted insufflator port is included in the design.

Bigger, better, sharper view of the Tympanic Membrane

The MacroView Otoscope delivers almost twice the field of view at higher magnification compared to standard otoscopes, making it easier to visualize the auditory canal and tympanic membrane. This instrument is a significant advance in hand-held otoscopy, providing an improved view for enhanced learning and decision making.

Adjustable focus: Ability to zoom in or out to fine tune the view
Tip grip: Ensures ear specula are fastened securely and easily
Uses Welch Allyn ear speculum: Choose between disposable or reusable ear specula made of the highest quality construction that provide an unobstructed, glare-free view
Insufflation port: Creates closed system for pneumatic otoscopy to assess middle ear disorders. Apply positive and negative air pressure and view tympanic membrane using an insufflator bulb
Default focus: Optimal setting for most ear examinations
Throat illuminator: Provides light with a handy built-in penlight

MacroView Otoscope with Throat Illuminator
Shown with 3.5 V Lithium Ion Handle
Our Halogen HPX™ lamp system is an innovative lighting technology that uses a high-pressure mixture of halogen and xenon gases to provide 30% more light output than before.

The Welch Allyn PocketScope™ uses halogen illumination. Built with many of the features found on 3.5 V sets, it is smaller in size, but not in utility.

**AA PocketScope Sets**

Pocket Otoscope/Ophthalmoscope with AA alkaline batteries

- **92820** Hard case
- **92821** Soft case

**Bright, white light with Halogen HPX™**

Fiber optics transmit light through a 360° bundle of optical fibers for accurate, shadow-free exams. The fiber optics extend to the tip of the instrument for more light output, less glare, and easier cleaning.

**Is the PocketScope Diagnostic Set popular with students?**

Actually, fewer than 10% of all students purchase a pocket set. Some tell us the 3.5 V sets are easier to learn on, but if you prefer a thinner handle, the PocketScope may be the answer for you.

**How do you use the throat illuminator on the PocketScope otoscope?**

The built-in halogen throat illuminator offers the convenience of two instruments in one. Unscrew the otoscope head to reveal the high-intensity throat illuminator built into the otoscope base.
Diagnostic Sets

What is a diagnostic set?
A basic diagnostic set consists of an ophthalmoscope for examination of the eye, an otoscope for examination of the ear, and a battery handle to power these instruments.

Why should I consider purchasing a Welch Allyn diagnostic set?
Owning your own diagnostic instruments will ultimately support your ability to be proficient. And, your proficiency with these diagnostic tools is essential for your goal of becoming a licensed practitioner.

Welch Allyn has the features, optics, and durability that make your job of learning how to examine the eyes and ears easier. This is important because you are investing in equipment that represents the fundamentals of your profession, and which will serve you throughout your education and career.

We provide you with innovative instruments such as the revolutionary PanOptic™ Ophthalmoscope, providing a 5x larger view vs. a standard ophthalmoscope, and the MacroView™ Otoscope, providing 30% higher magnification and almost twice the field of view compared to a standard otoscope. Our lithium ion handle provides twice the on time at half the weight.

Service is always local and prompt; Welch Allyn has the most extensive distributor network, and your equipment is unconditionally guaranteed while you are a student or resident.

What is the nasal illuminator used for?
The nasal illuminator provides a wider viewing area for examination of the nasal cavity. It comes complete with one, 9 mm reusable speculum. This accessory is ideal for those students thinking of specializing in ENT.

3.5 V Diagnostic Set Components
All Welch Allyn student diagnostic sets come with the following components:

When selecting the set that is right for you, consider which of these diagnostic components best fit your needs:

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## Diagnostic Sets

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**Hard Case**

Leather-grained black vinyl with molded inserts.

- 05259-M  Hard Case Only for Coaxial Ophthalmoscope Sets
- 05258-M  Hard Case Only for PanOptic Ophthalmoscope Sets

**Soft Case**

Made of durable corduroy with interior pockets for instruments.

- 05215-M  Soft Case Only for Coaxial Ophthalmoscope Sets
- 05815-M  Soft Case Only for PanOptic Ophthalmoscope Sets

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Should I choose a hard or soft case for my diagnostic set?

It’s a matter of personal preference. Both cases provide sufficient protection. The hard case lays the instruments out very nicely, but the soft case is somewhat smaller. It is very important that your set fit in your lab coat—both Welch Allyn cases allow for this.
What are some of the innovations Welch Allyn has pioneered over the years?

Welch Allyn was the...
First to develop a hand-held, directly illuminated ophthalmoscope —1915.
First to use fiber optics in otoscopes and other medical instruments —1964.
First to use miniature halogen lamps for medical applications —1973.
First to develop the only coaxial vision ophthalmoscope —1983.
First to develop a 3.5 V convertible handle —1991.
First to use high-pressure xenon technology in a miniature halogen lamp —1994.
First to deliver next-generation technology for diagnostic instrument handles —1999.
First to develop Axial PointSource Optics for 5X the view of a standard ophthalmoscope —2001.

Bivalve Nasal Speculum
Adjustable speculum facilitates removal of foreign bodies, autoclaveable for complete sterilization.
26035 Bivalve Nasal Speculum
Only—for use with the diagnostic otoscope/throat illuminator
26038 Bivalve Nasal Speculum — complete with illuminator base

Insufflator Bulb
Attaches to port for pneumatic otoscopy.
23804 Insufflator Bulb for MacroView™ Otoscope

Pneumatic Otoscope
Includes powerful Halogen HPX™ lamp and rotating lens with ultra-seal for pneumatic otoscopy.
20200 Pneumatic Otoscope

Operating Otoscope
Features powerful Halogen HPX™ lamp and convenient open system.
21700 Operating Otoscope

Disposable Universal KleenSpec® Specula
2.5 mm and 4 mm disposable specula eliminate cross-contamination.
52432-U, 52434-U Disposable KleenSpec Specula

Corneal Viewing Lens
Replaces the patient eyecup on the PanOptic Ophthalmoscope to provide extra magnification for exams of the cornea.
11875 Corneal Viewing Lens

Fiber Optic Nasal Illuminator
Provides superb view of nasal passages.
26535 Fiber Optic Nasal Illuminator
Section—for use with diagnostic otoscope/throat illuminator
26538 Fiber Optic Nasal Illuminator — complete with illuminator base

Fiber Optic Finnoff Transilluminator
Eliminates patient discomfort in transillumination of frontal and maxillary sinuses.
41100 Fiber Optic Finnoff Transilluminator

Patient Eyecup
Package of 5 reusable eyecups for PanOptic Ophthalmoscope.
11870 Patient Eyecup
Why should I invest in a sphygmomanometer when they can be so easily found all around the hospital? Accurately interpreting the Korotkoff sounds that identify systolic and diastolic blood pressure is as much an art as a science. Owning your own sphygmomanometer will allow you to practice and gain competency in blood pressure measurement. Developing expertise and becoming an advocate for accurate blood pressure measurement will not only allow you to directly provide better care, but it will also allow you to train others and maintain a high level of blood pressure expertise at your facilities in the future.

Welch Allyn DuraShock™ Integrated Aneroid
Welch Allyn’s DuraShock Model DS44 offers quality and accuracy in an easily affordable system. It features a traditional thumb screw design and the gauge clips onto the cuff and bladder. It is also shock resistant to 30 inches, lightweight and is backed by a 5-year calibration warranty.

**DS44-11CB** Welch Allyn Integrated Aneroid with Adaptor

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Tycos® DS58 Classic Hand Aneroid
Tycos Classic aneroid instruments incorporate synthetic jewels, gear-free design and a laser-engraved dial face to ensure reliability and accuracy. That is why Welch Allyn can provide you with a lifetime calibration warranty against manufacturing defects and accuracy within one percent of scale (±3 mmHg).

**DS58-11** Tycos DS58 Classic Hand Aneroid with adult cuff in zippered case
**DS58-MC** Tycos DS58 Classic Hand Aneroid, 4-Cuff Kit

**Why should I invest in a sphygmomanometer when they can be so easily found all around the hospital?**
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**Traditional Cuffs and Bladders**
All sphygmomanometers are also available with two-piece cuff and bladder inflation systems. Just add “CB” to the end of the part number (e.g., DS58-11CB)

All cuff and bladder multicuff kits ship with three cuffs: child print, adult, and large adult.
Why is a sphygmomanometer so important?

High blood pressure (hypertension) affects nearly one in three Americans and plays a major role in deaths due to cardiovascular disease. The sphygmomanometer is your tool for early detection of this silent killer and will be used on nearly all your patients. It is vitally important to be well trained in blood pressure measurement technique and to have an accurate, reliable instrument to properly diagnose hypertension. Inaccurate diagnosis can lead to inadequate or unnecessary medication and treatment.

What makes a Welch Allyn sphygmomanometer better than other brands?

Very simply: experience, quality, service. Welch Allyn has more experience in the design and manufacture of blood pressure instruments than any company in the world. Welch Allyn developed one of the first aneroid sphygmomanometers in 1907, and we continually introduce innovations that improve reliability and accuracy. Welch Allyn is the only North American company to manufacture aneroid sphygmomanometers.

What makes Welch Allyn blood pressure products with DuraShock technology maintain accuracy?

Welch Allyn DuraShock Technology encompasses a gear-free design that is lighter and has fewer moving parts than traditional gauges. This unique design allows gauges with DuraShock Technology to be shock-resistant, providing additional durability and requiring calibration less often than many competing gauges. In fact, Welch Allyn gauges can fall 30 inches or 60 inches (depending on the gauge) onto a hard surface and still remain accurate.

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The Welch Allyn Master Elite Stethoscope with patented SensorTech technology features a revolutionary microelectronic design that greatly reduces sound loss and noise common in most conventional stethoscopes. The Master Elite provides unmatched amplification and an outstanding signal-to-noise ratio for clean, crisp sound reproduction. The two-position frequency selection switch lets you change from high (diaphragm) to low (bell) frequencies with ease. The replaceable battery has a typical expected life of one year. Additionally, optional accessories include the Distributor that lets up to five colleagues co-listen and the Analyzer, which is PC-based software that captures heart sounds for storing, sharing, e-mailing, and consulting with colleagues.

**Master Elite Sensor-based Stethoscope**

- 5079-4055 Master Elite Stethoscope
- 5079-401 Distributor
- 5079-402 Analyzer

**Harvey Heart Sounds CD**

Every Master Elite comes with a free copy of Harvey Heart Sounds Sampler, an interactive CD for learning heart sounds.

**What are the advantages of SensorTech Technology?**

The product of several years of research and development, our SensorTech technology has truly perfected the art of registering, transmitting, and amplifying sound waves. The sensor picks up body sounds without sending a signal or energy into the patient’s body. And the stethoscope’s predefined frequency filters may help you hear the types of sounds that can enhance your ability to diagnose.
What should I look for in a stethoscope?

You want to be sure that the stethoscope fits correctly. If you can’t get sound past the eartip to your tympanic membrane, all other features are unimportant. The more custom the fit, the easier the sounds travel to your ear.

As a student, you must consider the versatility of the scope. Remember you will be doing rotations, including pediatrics and cardiology. The Harvey DLX and Elite, for example, adapt easily for pediatrics, and the bell is essential for cardiology.

Harvey™ DLX Cardiology Stethoscopes

Harvey Heart Sounds CD

Every Harvey DLX and Elite Stethoscope comes with a free copy of Harvey Heart Sounds Sampler, an interactive CD for learning heart sounds.

Cardiology Accessory Kit

Both the Harvey DLX and Elite stethoscopes come with a Cardiology Accessory Kit which includes a pediatric diaphragm for auscultation of infants and neonates, and three sets of eartips.

- Pediatric Diaphragm Assembly
- One Pair Medium Soft Eartips
- One Pair Large Hard Eartips
- One Pair Extra Large Hard Eartips

Superior high-frequency response makes it the smart choice for auscultation

Harvey DLX cardiology stethoscopes were developed by the preeminent Dr. Proctor Harvey to deliver the critically important high-frequency heart sounds like clicks, murmurs, and ejection sounds. Includes interchangeable pediatric and adult diaphragms. 10-year warranty. Harvey DLX is designed to accentuate sounds with unparalleled accuracy and crispness.

Harvey™ DLX Double Head Models

- 5079-325 Harvey DLX Double Head Stethoscope (Black)
- 5079-326 Harvey DLX Double Head Stethoscope (Burgundy)
- 5079-327 Harvey DLX Double Head Stethoscope (Navy)
- 5079-328 Harvey DLX Double Head Stethoscope (Forest Green)
What is the advantage of a two-tube stethoscope?

Two-tube stethoscopes, such as the Harvey DLX and Elite, provide an individual sound channel to each ear. This allows you to hear the subtle characteristics of heart sounds and murmurs more distinctly. The heavier tubing also filters out the distracting noise typical of a busy medical environment.

What makes a Welch Allyn stethoscope better than other brands?

Three key elements differentiate Welch Allyn stethoscopes: better performance, higher quality, and more value.

**Performance:** Welch Allyn Harvey and Elite cardiology stethoscopes are designed by the preeminent Dr. Proctor Harvey—the first and only “Master” of cardiology bestowed by the American College of Cardiology. Dr. Harvey designed these stethoscopes to accentuate the more important high-frequency ejection sounds, systolic clicks, and murmurs. Harvey and Elite stethoscopes also conform to American Heart Association (AHA) guidelines that indicate a stethoscope should include a diaphragm (for high-frequency sounds) and bell (for low-frequency sounds). Many competitive brands have only a diaphragm. Unlike other brands, Harvey DLX and Elite also have adjustable binaurals, as per AHA guidelines.

**Quality:** Welch Allyn cardiology stethoscopes are rugged, and are backed with warranties that typically exceed competitive models by two or more years.

**Value:** Welch Allyn Harvey and Elite stethoscopes are convertible, including both adult and pediatric diaphragms. It’s like getting two stethoscopes for the price of one.