



# Welch Allyn

eye care catalog



# A TRADITION OF VISIONARY THINKING



*Ophthalmoscopes*



*Retinoscopes*

Since our inception in 1915, Welch Allyn has built a solid reputation as a leading manufacturer of medical diagnostic instruments. Over the years, Welch Allyn has created innovations that have set the standards by which all others are compared. Here are just a few important milestones we've achieved:

- **1915** World's first hand-held, directly illuminated ophthalmoscope
- **1973** First use of halogen illumination in a direct ophthalmoscope
- **1983** First Coaxial optical system in a direct ophthalmoscope
- **1989** First 68-lens automatic diopter progression and diopter display ophthalmoscope
- **1999** Lithium ion battery technology in hand-held ophthalmic instruments

This catalog presents our full line of ophthalmic diagnostic instruments, including the new Welch Allyn SureSight™ Autorefractor, Humphrey FDT™ visual field instrument, 719 Lithium-Ion Power Handle, and scores of other innovative products designed just for you. It should make selecting instruments quick and easy. Features, benefits, and product numbers are listed in a format that's easy to follow. And replacement lamps and batteries are displayed for easy identification and ordering.

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As always, your comments and suggestions are welcome.

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**Or visit us at: [www.welchallyn.com](http://www.welchallyn.com)**

# THE WELCH ALLYN COAXIAL VISION SYSTEM

The Welch Allyn patented Coaxial Vision System makes ophthalmoscopy easier than ever. That's because it gives you more advantages than other ophthalmoscopes available today, including easier entry into the eye, a larger field of view, and reduced glare.

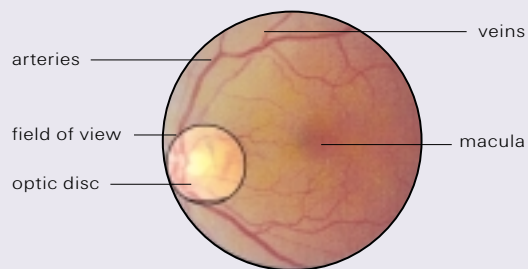
By looking through the mirror directly along the pathway of the light, you'll see a larger area of the retina.

The exclusive curved-filament lamp and hole-in-the-mirror are the patented enabling features of our Coaxial Vision System.

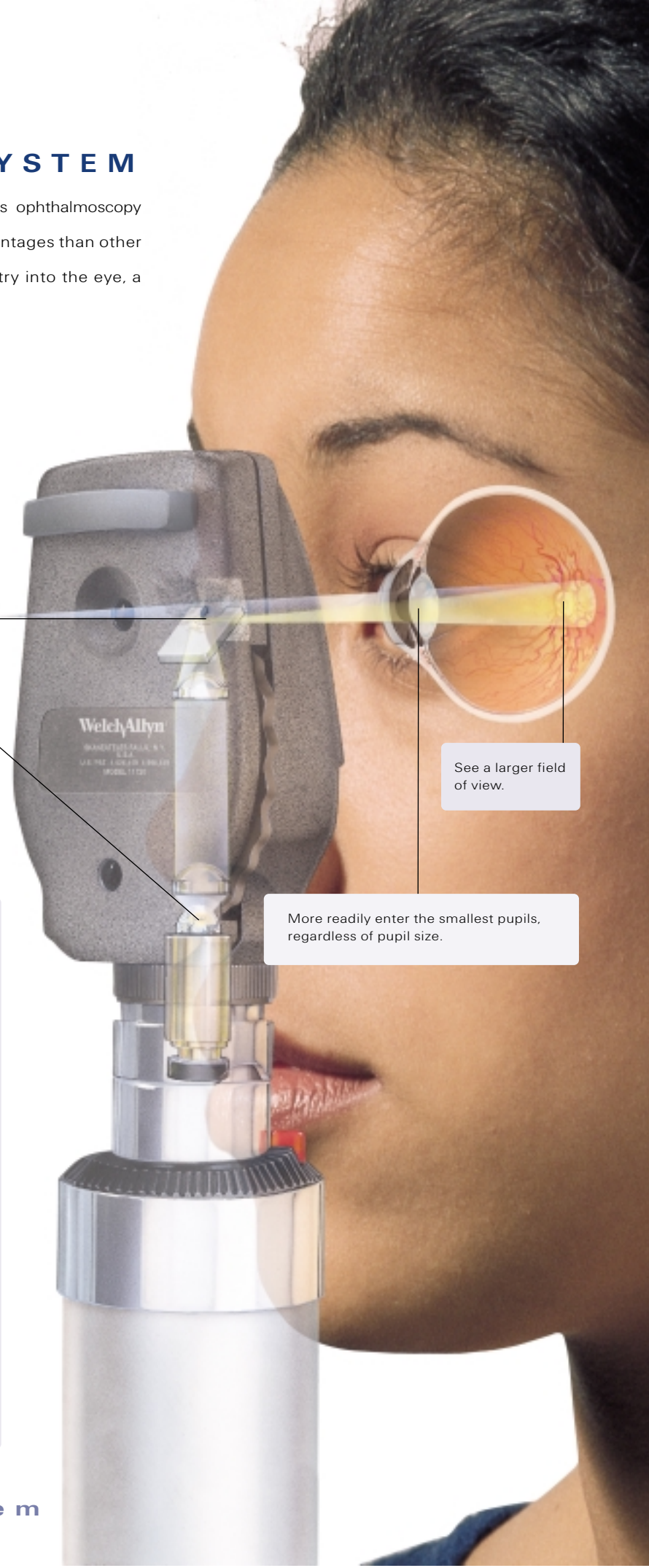
See a larger field of view.

More readily enter the smallest pupils, regardless of pupil size.

## THE WELCH ALLYN COAXIAL VISION SYSTEM Partial eyegrounds (fundus)



The Welch Allyn Coaxial Vision System virtually eliminates shadowing, allowing you to see a much larger portion of the fundus than with any other direct ophthalmoscope. Our system brings the lines of vision and illumination closer for easier entry of light into the pupil and a larger field of view.



# HALOGEN COAXIAL-PLUS OPHTHALMOSCOPE

## The Most Prestigious Instrument for Superior Eye Care

When Welch Allyn designed the world's first directly illuminated, hand-held ophthalmoscope 85 years ago, we started a tradition of bringing superior ophthalmic technology to professionals worldwide. Today, we continue to set standards for innovative technology. The popular 3.5v Coaxial-Plus Ophthalmoscope is one of our latest developments. With its combination of patented Coaxial-Plus optics, a unique new selection of filters and precise manufacturing techniques, the Coaxial-Plus Ophthalmoscope enables easier entry into undilated pupils.

### Coaxial-Plus Optical System:

precise lamp filament and optical alignment enable maximum coaxial viewing for enhanced visibility and uniform illumination.

### Aperture Selection Dial:

offers six standard apertures.

### Improved Lens Selection Disc:

offers 68 lenses with smooth, simple movement, and instant readout of actual diopter level.



**11735 3.5v Coaxial-Plus Ophthalmoscope with the 719 Lithium-Ion Handle**

### The system features six apertures:



**Micro-Spot Aperture:** allows quick entry in small, undilated pupils.



**Small Aperture:** provides excellent view of fundus through an undilated pupil.



**Large Aperture:** standard aperture for dilated pupil and general examination of the eye.



**Fixation Aperture:** has graduated cross-hairs for measuring eccentric fixation or locating lesions.



**Cobalt Filter:** used with fluorescein dye to view small lesions, abrasions, and foreign objects on the cornea.



**Slit:** used to determine levels of lesions and tumors.

**Opacity Setting:** provides the brightest Halogen HPX™ light for easy entry into eyes with cataract or other media opacity.

**Neutral Filter:** provides the ideal amount of Halogen HPX light for entering healthy eyes without unwanted reflex.

	LENSES	FILTERS	OPTICAL SYSTEM
 <b>11735</b> <b>Coaxial-Plus Ophthalmoscope</b>	68 lenses; -30 to +38 diopters	Neutral density filter Opacity setting Red-free filter	Coaxial-Plus optics Halogen HPX light
 <b>11730</b> <b>Halogen AutoStep Ophthalmoscope</b>	68 lenses; -30 to +38 diopters	Cross-linear Polarizing Red-free filter	Coaxial optics Halogen HPX light
 <b>11720</b> <b>Coaxial Ophthalmoscope</b>	28 lenses; -25 to +40 diopters	Cross-linear Polarizing Red-free filter	Coaxial optics Halogen HPX light

*\*Lamp replacement Part No. 04900*

*\*Lamp replacement Part No. 04900*

*\*Lamp replacement Part No. 04900*

# HALOGEN HPX™ STREAK RETINOSCOPE

## Superior Illumination for Faster and Easier Refractions

The Halogen HPX Retinoscope provides 40% more light output than conventional scopes and maintains a consistent output level throughout its life. This greatly enhanced illumination produces the sharpest retinal reflex, making refractions easier than ever. Add to this our other popular features like a convenient external focusing sleeve, and it makes the Halogen HPX Retinoscope the most user-friendly and innovative instrument available.

**Dust-Free Design:** special construction keeps the optics cleaner for more effective examinations.

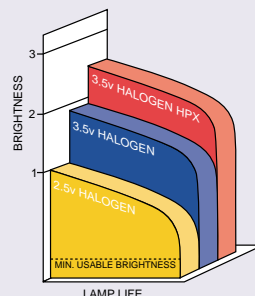
**Cross Linear Polarizing Filter:** eliminates 99% of bothersome glare from trial lenses, helping you perform a more precise exam at the flick of a switch.

**Continuously Rotating/ Completely External Focusing Sleeve:** improves the scope's comfort and maneuverability, no matter what size your hand is, or how you manipulate the sleeve.



**18235 HPX Streak Retinoscope with 719 Lithium-Ion Handle**

## HALOGEN COMPARISON



Comparison of life and brightness of Halogen HPX to traditional halogen lamps. At 70% of Halogen HPX lamp life, light output is 85% of original output. This graph clearly shows the important differences in brightness and longevity characteristics between Halogen HPX and other halogen lamps. Only Welch Allyn Halogen HPX provides 3250° K color temperature, which is maintained during the entire life of the lamp, providing the most accurate observation of tissue color.

## 3.5V HALOGEN HPX STREAK RETINOSCOPE

- 18200** 3.5v Streak Retinoscope
- 18235** 3.5v Halogen HPX Streak Retinoscope
- 08200** Replacement 3.5v Halogen HPX Streak Lamp
- 08300** Replacement 3.5v Halogen HPX Spot Lamp for No. 18300 (will fit No. 18200 Streak Retinoscope to convert to a No. 18300 Spot Retinoscope)

## 3.5V HALOGEN HPX SPOT RETINOSCOPE

- 18300** 3.5v Halogen HPX Spot Retinoscope
- 08300** Replacement 3.5v Halogen HPX Spot Lamp
- 08200** Replacement 3.5v Halogen HPX Streak Lamp for No. 18235 (will fit No. 18300 Spot Retinoscope to convert to a No. 18200 Streak Retinoscope)

## ACCESSORIES



- 18250** Set of four fixation cards quickly and easily attach to magnetic logo on instrument head for dynamic retinoscopy.

## OPHTHALMIC POCKETSCOPES

Welch Allyn 2.5v Ophthalmic PocketScopes are lightweight, compact diagnostic instruments for those who want high performance in a slightly smaller package. Welch Allyn PocketScopes use Halogen illumination and have many other features found on 3.5v sets. They are smaller in size but not in utility.

**Lens Selection Disc:** offers choice of 48 viewing lenses.

**Continuous Aperture Selection Dial:** offers six apertures (on patient side).

**Sealed Optics:** for improved long-term performance.

**External Focusing Sleeve:** for easy streak manipulation.

**12820 PocketScope Ophthalmoscope**

**16220 PocketScope Retinoscope**



U.S. Patent No. 4,991,069

## OPHTHALMIC COMPACSET™

This portable ophthalmic instrument is specifically designed to make examining patients easier. The Welch Allyn CompacSet features a retinoscope and an ophthalmoscope built into one compact unit. An optional transilluminator is also available.



**93400** Ophthalmic CompacSet with AA batteries and case (includes Transilluminator).

**93300** Ophthalmic CompacSet with AA batteries and case.

**93410 (93415\* export)** Ophthalmic CompacSet with rechargeable 2.5v battery, charging transformer, and case (includes Transilluminator).

**93310 (93315\* export)** Ophthalmic CompacSet with rechargeable 2.5v battery, charging transformer, and case.

U.S. Patent No. 5,189,449; Patents Pending

**\*Available for export.** Please specify country and voltage. Export Ordering Example: 94805 - Germany - 220v



### POCKETSCOPE SET

**94800 (94805\* export)** Ophthalmic PocketScope Set with rechargeable 2.5v batteries, charging stand, and case.

**94820** Ophthalmic PocketScope set with AA batteries and case.



### INDIVIDUAL POCKETSCOPE

**12820** PocketScope Ophthalmoscope with AA batteries

**16220** PocketScope Retinoscope with AA batteries

**14220** PocketScope Transilluminator with AA batteries

### ACCESSORIES

**03900** Ophthalmoscope lamp

**03400** Transilluminator lamp

**08400** Retinoscope lamp

**72610** Rechargeable 2.5v Ophthalmic CompacSet nickel cadmium battery

**72600** Rechargeable 2.5v PocketScope nickel cadmium battery

# 719 LITHIUM-ION POWER SOURCES

## Twice the On-time, Half the Weight!

Another Welch Allyn innovation, the next generation 719 Lithium-Ion Power Handle features “Smarter” Lithium-Ion battery technology. The 719 Lithium-Ion Power Handle powers any 3.5v instrument head for 110 minutes—twice as long as our conventional handle. Its rugged CYCOLOY® plastic resin construction and ergonomic design make the handle more comfortable for any sized hand. ETL listed for medical safety standards.

**Soft Grip Rheostat:** for light-intensity control.

**Textured Handle:** made of durable CYCOLOY® blend construction.

**Low-battery Indicator Light**

**71900 (71905\* export)  
Lithium-Ion Power Source  
with AC Adapter**

**71930 (71935\* export)  
Lithium-Ion Power Source  
with Well Adapter**

Allows use of 719 Lithium-Ion Power Handle with traditional charging stand.

**71920 Lithium-Ion  
Well Adapter**

**71980 Desk Charger  
with Lithium-Ion Handles  
and Well Adapters**  
(heads purchased separately)

**71950 Removable Pull-out  
AC Charging Module**



### Recyclable battery

Please return expended rechargeable batteries to Welch Allyn for recycling.

*U.S. and International Patents Pending*

*®CYCOLOY is a registered trademark of General Electric Company*

**\*Available for export.** Please specify country and voltage.  
Export Ordering Example: 71905 - Denmark - 220v



Retractable AC charging module easily plugs into any outlet.



# NI-CAD POWER SOURCES

Whether you want a convertible handle or one that simply recharges in a well, Welch Allyn offers a choice of power sources that are compatible with each and every one of our instrument heads.

Welch Allyn's concern for health extends to protecting our environment. We encourage customers to return expended nickel cadmium batteries to us for recycling.



**71610 Desk Charger and Two Handles** (heads purchased separately)



**71000-C 3.5v Rechargeable/Convertible Handle**

**71670 3.5v Well Recharging Handle**

**71000-A 3.5v Rechargeable Handle**

## 3.5V DESK CHARGER AND HANDLES



- 71670** Rechargeable 3.5v handle only
- 71110 (71105\* export)** Charger only
- 71610 (71605\* export)** Complete unit includes 71110 charger and two 71670 3.5v rechargeable handles
- 71410** Optional wall bracket for use with above desk chargers
- 71980 (71985\* export)** Desk Charger with Lithium-Ion Well Adapter and Handle
- 72200** Ni-Cad rechargeable battery (color-coded black)

*U.S. Patents Pending*

## 3.5V CONVERTIBLE HANDLE



- 71000-C (71055-C\* export)** 3.5v Convertible Power Handle
- 72300** Ni-Cad rechargeable battery (color-coded orange)

## 3.5V HANDLE



- 71000-A (71055\* export)** Rechargeable 3.5v power handle
- 71050** Extra bottom section only
- 72300** Ni-Cad rechargeable battery (color-coded black)

**\*Available for export.** Please specify country and voltage.  
Export Ordering Example: 71105 - Spain - 220v

# WELCH ALLYN OPHTHALMIC DIAGNOSTIC SETS

## The Most Prestigious Collection of Diagnostic Instruments

Many busy practitioners find that the best way to carry and store equipment is with a diagnostic set. That's why Welch Allyn offers a variety of customized equipment options to help fit your specific needs. Choose from a wide range of power sources, retinoscopes, ophthalmoscopes, and carrying cases.

### ACCESSORIES



#### 41100 3.5v Fiber Optic Finnoff Transilluminator

General fiber optic examination light for checking pupil reflex. Eliminates patient discomfort in transillumination of frontal and maxillary sinuses.



05829 Hard Case



05620 Soft Case



05214 Soft Case

3.5v Lithium-Ion Power Handle: (rechargeable battery included)

18335-SM\* Smart Set



3.5v Rechargeable Convertible Handle

18335\* Classic Set



#### All Sets Include:

- Rechargeable Power Handle(s) of Choice
- Coaxial-Plus Ophthalmoscope
- Halogen HPX™ Streak Retinoscope
- Carrying Case
- Fixation Card Set

\*Available for export. Please specify country and voltage.  
Export Ordering Example: 18335 - France - 220v

# WELCH ALLYN OPHTHALMIC DIAGNOSTIC SETS\*

Diagnostic Set No.	RETINOSCOPES		FIXATION CARDS	OPHTHALMOSCOPES				POWER HANDLES		CASES	
	18235 Streak	18300 Spot	18250	11735	11730	11720	11710	71900	71000 or 71000-C**	Hard	Soft
18335-SM											
18335											
18330-SM											
18330											
18331											
18430											
18320-SM											
18320											
18321											
18420											
18310											
18311											
18410											
11790											
11791											
11770											
11771											
11750											
11751											
18340-SM											
18440											
18441											

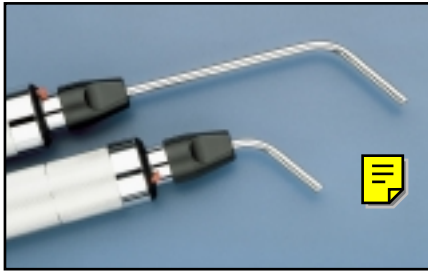
**\*All sets available with power handles for export use.**

Please specify set number, country and voltage.  
Export Ordering Example: 11770 - Germany - 220v

**\*\*Available with convertible handle.**

Please specify when ordering.

## OTHER OPHTHALMIC INSTRUMENTS



### 3.5V HALOGEN FIBER OPTIC TRANSILLUMINATORS

General fiber optic examination light provides cool illumination that eliminates patient discomfort. Useful to check pupil reflex.

- Halogen HPX™ Lamp that provides 30% more light output, for true tissue color and consistent, long-lasting illumination.
- Fiber optic light transmission for cool distal light.
- Fully sterilizable with steam, water, gas or solutions.
- Optional cobalt blue filter.

**41100** Finnoff ocular transilluminator

**41101** Same as 41100 with cobalt blue filter

**41102** Cobalt blue filter only

**43300** Curved all-purpose transilluminator

**03100** Halogen replacement lamp for 41100 and 43300



### STRABISMOSCOPE

Our StrabismoScope makes diagnosing strabismus easier than ever. Ideal for visualizing dissociated vertical deviation.

- Simplifies the cover test—can see what the covered eye is doing.
- Compatible—fits all Welch Allyn 3.5v power sources.
- Durable—rugged ABS housings resist damage from drops.

**12400** 3.5v Halogen StrabismoScope

**03000** 3.5v Halogen replacement lamp for 12400

**12451 (12455\* export)** 3.5v Halogen StrabismoScope set includes: 12400 3.5v Halogen StrabismoScope, 71000-A 3.5v rechargeable handle, 05232 Soft carrying case.

*U.S. Patent No. 4,903,706*



### HALOGEN PROFESSIONAL PENLITE

A convenient pocket light designed to fit your hand perfectly. Features a lifetime guarantee and bright, white Halogen illumination for accurate tissue color rendition. Brass with black matte finish.

**76600** Halogen Professional PenLite

**07600** Halogen replacement lamp for 76600

**\*Available for export.** Please specify country and voltage.  
Export Ordering Example: 12455 - United Kingdom - 240v

# 767 DIAGNOSTIC SYSTEM

The 767 Diagnostic System is designed to put everything you need for fast, accurate diagnoses at arm's length—and in one convenient modular package. The wall transformer holds two Welch Allyn handles, and features OptiSens™—a reliable optical sensor that automatically turns handles on when they're removed from the cradle. Best of all, you can add any Welch Allyn 3.5v instrument to your system by simply attaching the optional third handle module.

**Halogen HPX™ Lamp**  
featured in ophthalmoscope  
and transilluminator.

**Optional Third Handle Module**  
makes expansion a snap. Use any  
3.5v Welch Allyn instrument including:  
Finnoff Transilluminator  
StrabismoScope  
Unidirectional Occluder



**An optional digital clock and pulse timer**  
is available on models  
76720 and 76725.

**OptiSens Optical Sensor**  
automatically  
turns handles  
on and off.

**Handle-based rheostats** make  
it easy to adjust  
light intensity.

**Advanced coiled cords** are capable of  
stretching twelve feet.

**76720 3.5v Wall Transformer  
with clock** (heads purchased  
separately)

**76730 Third Handle Module**

## 767 DIAGNOSTIC SYSTEM

- Halogen HPX Lamp provides 30% more light output, for true tissue color and consistent, long-lasting illumination.
- Handle-based rheostats allow for quick light-intensity adjustments.
- Comfortable, contoured handles are easy to hold and maneuver.
- Modular coiled cords are guaranteed for ten years.
- High-impact ABS housing is durable and easy to clean.
- Improved cradle design featuring OptiSens.

**76720 (76725\* export)** 3.5v Wall Transformer  
with clock (heads purchased separately)

**76710 (76715\* export)** 3.5v Wall Transformer  
without clock (heads purchased separately)

**76730** Third Handle Module

**\*Available for export.** Please specify country and voltage.  
Export Ordering Example: 76725 - Italy - 220v

# 125 BINOCULAR INDIRECT OPHTHALMOSCOPE

The Welch Allyn 125 Binocular Indirect Ophthalmoscope is the most advanced BIO available. It offers state-of-the-art, convenient features along with a lightweight, comfortable fit and increased stability. In short, the 125 BIO is everything you need to make practicing indirect ophthalmoscopy easier and more efficient than ever before.

**Halogen Light Source:** the brightest, longest-lasting illumination available in a BIO.



**Optional Diffuser Filter:** broadens the illumination beam for enhanced viewing of the peripheral retina.

**Precise Aluminum Chassis:** protects optics and keeps components in precise alignment.

**SoftTilt Park/Rest Feature:** allows optics to be moved to a stationary position out of your line of vision—and eliminates risk of damage to eyeglasses or optics when returning them to use.

**Full-time Safety Filter:** protects your patients against UV and IR hazards.

**Ergonomically Designed Controls:** convenient, durable design provides simple operation and protection against accidental drops.

**IPD Control:** adjusts to handle interpupillary distances of 49 mm to 74 mm—the widest range available in a BIO.

**12500-DY BIO with diffuser filter and yellow filter**

**Mirror Tilt Control:** optimally synchronizes illumination and viewing paths.

**Sealed Optics:** vital optics and mirror assemblies are sealed against dirt and dust for enhanced viewing and durability.

*Patents Pending*



**Convergence Control:** illumination and visual pathways can be synchronized for excellent viewing in patients with small pupils.



**Padded Headband:** well-padded leather contact points and new “swooped” design improve comfort and viewing stability. Easy to adjust for a secure fit.

# BINOCULAR INDIRECT OPHTHALMOSCOPES

- 12500** BIO with cobalt blue filter (optical portion and headband)
- 12500-D** BIO with cobalt blue filter and diffuser filter (optical portion and headband)
- 12500-Y** BIO with yellow filter (optical portion and headband)
- 12500-DY** BIO with diffuser filter and yellow filter (optical portion and headband)

## POWER SOURCES

Choose from two power sources—our Portable Power Source or the versatile Wall/Desk Power Source designed for mounting to almost any surface.

### 74350 (74355\* export) Wall/Desk Power Source

Mounts to any convenient surface.



74350 Wall/Desk Power Source



74360 Portable Power Source

### 74360 (74365\* export) Portable Power Source

Up to 60 minutes of on-time—can be used with recharging transformer for extended use.

## ACCESSORIES

### Carrying Cases

Maximum protection for BIO and room for all your essential accessories.

**05120** Large Carrying Case

**05122** Small Carrying Case



05120



05122

**12550** Teaching Mirror

**12060** Scleral Depressor

**50120** Fundus Charts and Pencils

**73300** Four-foot Cord Extension



12550



50120

**\*Available for export.** Please specify country and voltage.  
Export Ordering Example: 74355 - Ireland - 240v

Visit our website at [www.welchallyn.com/BIO](http://www.welchallyn.com/BIO) for more details on Binocular Indirect Ophthalmoscopy.

# THE WELCH ALLYN SURESIGHT™ AUTOREFRACTOR

SureSight is a child-friendly, portable autorefractor that lets you test patients, any time, anywhere. Carry it from room to room, to your waiting area, even offsite. SureSight is available at a fraction of the price of standard autorefractors. SureSight solves many of the problems you face when conducting exams. It lets you test in seconds from a non-threatening 14 inches away—even through glasses and contact lenses.



Flashing lights and sounds engage the patient's attention.

**Child-friendly:** no cycloplegic drops required. Non-threatening 14 inch (35 cm) working distance.

**Easy to use:** one button starts the automatic sequential test of both eyes.



**Rugged construction:** includes shock-mounted optics and electronics to help protect unit. The sealed unit helps keep dirt out.

**Comfortable, ergonomic design:** features an ergonomic grip and replaceable, self-adjusting hand strap that accommodates anyone.

**Fast and efficient:** five-second, automatic test.

**Portable:** compact, light-weight unit can be easily carried anywhere you need it.



SureSight is a child-friendly, portable autorefractor that lets you test young children and adults, anytime, anywhere.



Printer receives results through a remote wireless link. Battery operated—bring it wherever you need it.

- 14010\*** SureSight Autorefractor Set (includes 110-130v charging transformer, stand, thermal printer, and carrying case)
- 14012\*** SureSight Autorefractor Set (European)
- 14014\*** SureSight Autorefractor Set (UK)
- 14016\*** SureSight Autorefractor Set (Australian)
- 53600A** Printer paper (1 roll)

\*Use a letter suffix to designate manual languages other than English: F-French, G-German, I-Italian, S-Spanish (e.g. 14012F for French manual and quick reference guide).

U.S. Patent 6,007,204; international patents pending. All specifications are subject to change.



# HUMPHREY™ FDT VISUAL FIELD INSTRUMENT

Featuring patented Welch Allyn Frequency Doubling Technology, the Humphrey FDT provides visual field screening results in just 45 seconds per eye and full threshold results in just four minutes per eye. What's more, the FDT's results are statistically correlated to results from the Humphrey Field Analyzer—the clinical standard for accuracy in visual field testing.

**Quick and convenient testing:**

the unit's simple three-touch operation makes visual field testing quicker and easier than ever.

**Easy to use:** requires minimal set-up and training time. Virtually anyone can operate it.

**Portable and compact:** the unit weighs just 19 pounds, making it perfect for use in pre-test as well.

**User-friendly:** the super-efficient FDT unit operates without the need for a trial lens or eye patch and tests can be performed using normal room lighting.

**Built-in Printer:** comes complete with high-speed, high-resolution internal thermal printer.

**Data storage, retrieval and analysis:** optional ViewFinder™ database software and RS232 interface cable for use with a Windows® PC.



FDT is the most portable and user-friendly automated visual field instrument.

Humphrey FDT is sold exclusively through Zeiss Humphrey Systems. For product information call 1-877-HUMPHREY or e-mail [www.humphrey.com](http://www.humphrey.com)

# SURGERY AND RECOVERY EQUIPMENT

In addition to breakthrough ophthalmic products, Welch Allyn offers a wide range of innovative diagnostic instruments designed to help you provide more efficient in-office surgeries, procedures, treatments, and other tasks. From our extremely rugged surgical headlights to automated patient monitoring systems, Welch Allyn has the instruments you need to get the job done.

## WELCH ALLYN ATLAS MONITOR\*\*



- All of the essential monitoring parameters at a breakthrough price.
  - Multicolored LED digits allow easy differentiation of vital parameters.
  - Bright, crisp waveforms allow across-the-room visibility.
  - Push-button operation makes Atlas simple to learn and use.
  - Lightweight and portable with integrated handles and optional battery.
- 621SO**-ECG/Nonin SpO<sub>2</sub> /NIBP  
**621SP**-ECG/Nonin SpO<sub>2</sub> /NIBP/Printer  
**622SO**-ECG/Nonin SpO<sub>2</sub> /NIBP/Temperature/Respiration/Battery/RS232  
**622SP**-ECG/Nonin SpO<sub>2</sub>/NIBP/Temperature/Respiration/Battery/RS232/Printer  
**622NO**-ECG/Nellcor SpO<sub>2</sub>/NIBP/Temperature/Respiration/Battery/RS232  
**622NP**-ECG/Nellcor SpO<sub>2</sub>/NIBP/Temperature/Respiration/Battery/RS232/Printer  
**623SP**-ECG/Nonin SpO<sub>2</sub> /NIBP/ETCO<sub>2</sub>/Temperature/Respiration/ Battery/RS232/ Printer  
**623NP**-ECG/Nellcor SpO<sub>2</sub>/NIBP/ETCO<sub>2</sub>/Temperature/ Respiration/Battery/RS232/Printer

## WELCH ALLYN VITAL SIGNS MONITOR\*\*



- Super-bright, extra-large digital display allows for easy viewing.
  - Base unit includes non-invasive blood pressure, pulse rate, and MAP.
  - For vital signs documentation and trending, add a thermal printer.
  - Pulse Oximetry option includes programmable alarms and a wide variety of patient sensors.
  - Add the SureTemp electronic thermometer option and take oral readings in just four seconds.
- 52000** -NIBP only (includes Pulse rate and MAP)  
**5200P** -NIBP/Printer  
**520T0** -NIBP/Temperature  
**520TP** -NIBP/Temperature/Printer  
**52S00** -NIBP/Nonin Pulse Oximetry  
**52N00** -NIBP/Nellcor Puritan Bennett Pulse Oximetry  
**52S0P** -NIBP/Nonin Pulse Oximetry/Printer  
**52N0P** -NIBP/Nellcor Puritan Bennett Pulse Oximetry/Printer  
**52ST0** -NIBP/Nonin Pulse Oximetry/Temperature  
**52NT0** -NIBP/Nellcor Puritan Bennett Pulse Oximetry/Temperature  
**52STP** -NIBP/Nonin Pulse Oximetry/Temperature/Printer  
**52NTP** -NIBP/Nellcor Puritan Bennett Pulse Oximetry/Temperature/Printer

## WELCH ALLYN MFI HEADLIGHT SYSTEMS



- Welch Allyn's patented Sōlarc™ lamp provides high-intensity, white light for accurate tissue color identification
  - Soft, flexible headpiece provides extreme comfort
- 49520**-MFI (**49525\* export**) Sōlarc Headlight System (light source, fiber bundle, headband/luminaire)  
**49500**-MFI Sōlarc Light Source only  
**49505**-MFI Solarc Light Source only, International Power Cord (specify country)

\***Available for export.** Please specify country and voltage.  
Export Ordering Example: 49525 - Germany - 220v

\*\***Available for export.** Please specify country, voltage, and language.  
Export Ordering Example: 52000 - France - 220v - French

# TYCOS® TR-1 HAND ANEROID SPHYGMOMANOMETERS

The Tycos TR-1 Hand Aneroid features a modern, ergonomic design to fit perfectly in the right or left hand. Combined with the smooth trigger deflation valve, the aneroid makes taking accurate blood pressure measurements easy and comfortable.

## 10-Year Warranty

### Double-shell ABS Housing:

delivers high impact durability and protection to internal movement.

**Luer Lock:** allows for quick interchanging of cuff sizes.

**Trigger Deflation Valve:** provides smooth and easy control of pressure deflation.

**Latex Free:** entire system is completely latex free.



**Large, Easy to Read Dial Face**

**Balanced, Ergonomic Design:** fits and functions comfortably in all size hands, right or left.

**5098-27 Tycos TR-1 Hand Aneroid with adult cuff in zippered case (case not shown)**

# TYCOS® CLASSIC HAND SPHYGMOMANOMETERS

## Lifetime Warranty

### Durable One-piece Cuff:

lasts 100,000 cycles.

**Latex Free:** entire system is completely latex free.

**Luer Lock:** allows quick replacement of interchangeable cuffs.

**Twist Air-release Valve:** provides constant and smooth deflation, is positioned for use with either hand.

**Jeweled Movement:** synthetic rubies reduce friction and wear, ensuring long life.



**Phosphor-bronze Bellows:** ensure stable pressure transmission.

**Laser-engraved Dial Face:** is computer-matched and calibrated to guarantee consistent, accurate readings.

**5098-02 Tycos Classic Hand Aneroid with adult cuff in zippered case (case not shown)**

## Tycos TR-1 Hand Aneroid Multi-Cuff Kit



Multi-Cuff Kit includes three inflation systems to ensure accurate measurements on all size arms.

**5098-30** Multi-Cuff Kit with adult, large adult, and child print cuffs in a dual compartment zippered case.

## Tycos Classic Family Practice Blood Pressure Kit



**5098-20** Tycos Family Practice Blood Pressure Kit with adult, large adult, and child cuffs in a dual compartment zippered case.

**5098-23** Same as above but with printed child's cuff.

**5082-206-1** Adult

**5082-207-1** Large adult one-piece cuff

## Tycos Economy Pocket Aneroid

The Tycos Economy Pocket Aneroid offers quality and accuracy in an easily affordable system. The traditional pocket-style gauge clips to the cuff for convenience and protection. The Tycos Economy Pocket Aneroid is backed by a five-year warranty.



**7050-14** Tycos Economy Pocket Aneroid with adult cuff in zippered case. (Case not shown.)

# HARVEY DLX CARDIOLOGY STETHOSCOPES

Welch Allyn® Harvey DLX delivers the easiest-to-hear and most accurate heart sounds of any stethoscope available today. Harvey DLX cardiology stethoscopes are designed by the pre-eminent Dr. Proctor Harvey to accentuate the critically important high-frequency heart sounds like clicks, murmurs, and ejection sounds. Available in both double-head and triple-head models. Includes interchangeable pediatric and adult diaphragms.

## 5079-325 Harvey DLX Cardiology Stethoscope

**Rotatable Binaurals:** ensure a comfortable fit.

**10-year Warranty**

**Triple-leaf Spring:** for durability.

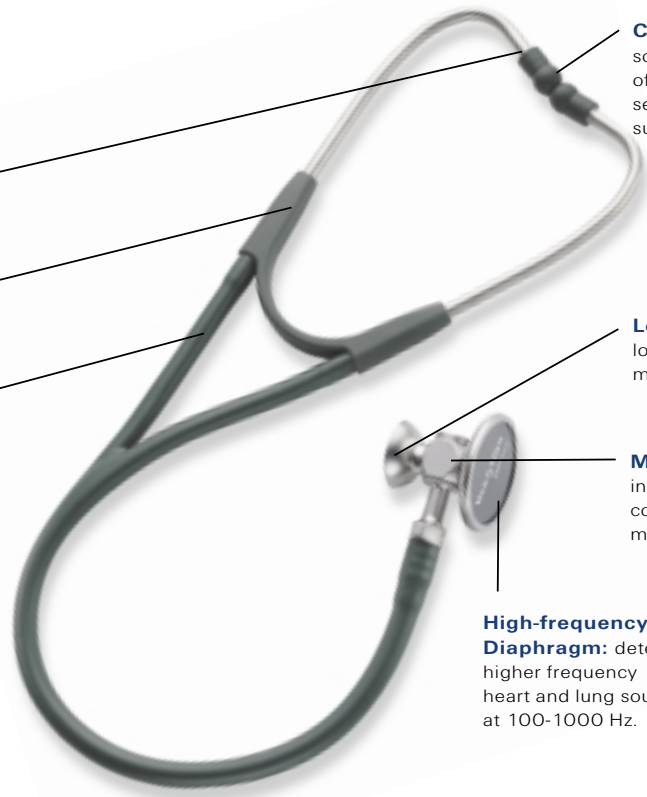
**Dual Lumen, Latex-free Tube:** 25" tubing provides sufficient reach and meets requirements for latex-free healthcare facilities.

### HARVEY DLX DOUBLE HEAD

- 5079-325 Black
- 5079-326 Burgundy
- 5079-327 Navy Blue
- 5079-328 Forest Green

### HARVEY DLX TRIPLE HEAD

- 5079-321 Black
- 5079-322 Burgundy
- 5079-323 Navy Blue
- 5079-324 Forest Green



**Comfort Sealing Eartips:** soft and hard eartips in a variety of sizes allow you to effectively seal the ear, while also providing sufficient comfort.

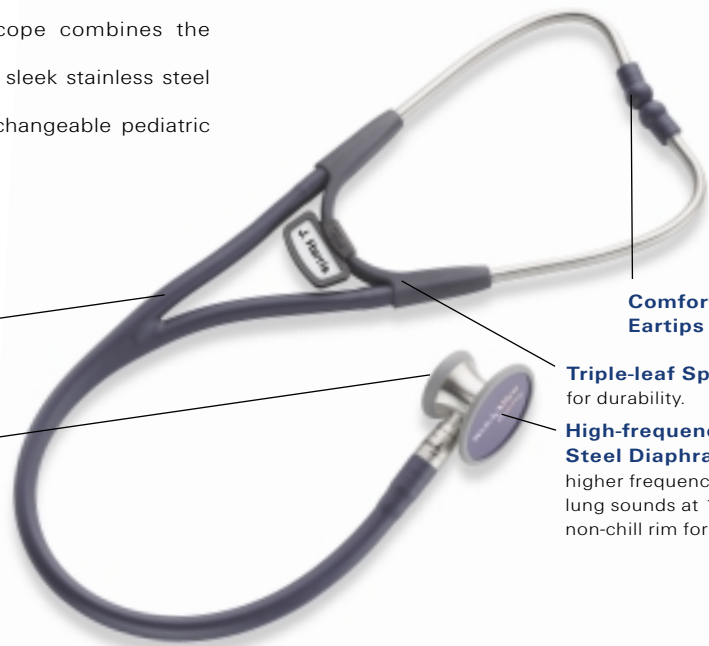
**Low-frequency Bell:** detects lower frequency sounds and murmurs at 20-100 Hz.

**Multi-head Brass Chest Piece:** includes bell, flat diaphragm, and corrugated diaphragm (triple-head model only).

**High-frequency Diaphragm:** detects higher frequency heart and lung sounds at 100-1000 Hz.

# ELITE® CARDIOLOGY STETHOSCOPE

The Welch Allyn® Elite cardiology stethoscope combines the acoustic excellence of the Harvey DLX with a sleek stainless steel chest piece and non-chill rims. Includes interchangeable pediatric and adult diaphragms.



**Dual Lumen, Latex-free Tube:** 25" tubing provides sufficient reach and meets requirements for latex-free healthcare facilities.

**Low-frequency Stainless Steel Bell:** detects lower frequency sounds and murmurs at 20-100 Hz.

**10-year Warranty**

### ELITE STETHOSCOPE




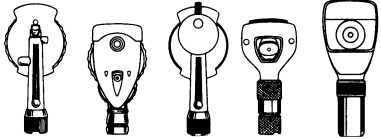

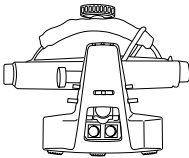

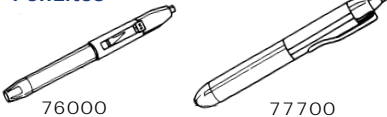





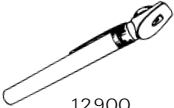
- 5079-125 Black
- 5079-270 Burgundy
- 5079-271 Navy Blue
- 5079-284 Forest Green




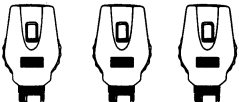

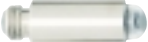





**Comfort Sealing Eartips**



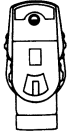









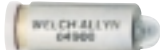




**Triple-leaf Spring:** for durability.




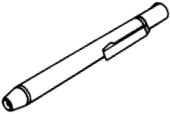






**High-frequency Stainless Steel Diaphragm:** detects higher frequency heart and lung sounds at 100-1000 Hz; non-chill rim for patient comfort.

*U.S. Patent No. 5,189,264*




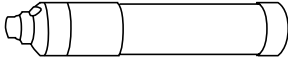
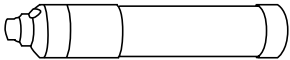




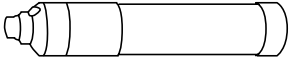
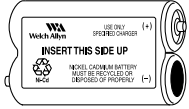
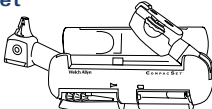

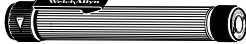

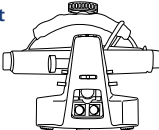


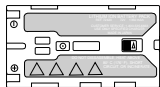

Lamp Number	Lamp-Actual Size	Current Instruments	Obsolete Instruments
00200		<b>Transilluminators</b>  41000	
00900			<b>Ophthalmoscopes</b> <b>Retinoscopes</b>  10600    121    110    17600    17610
01200		<b>Binocular Indirect Ophthalmoscope</b>  12000	
01300			<b>PenLites</b>  76000    77700
01400			<b>PenLite</b>  77800
01800			<b>Retinoscopes</b>  17700
02300			<b>Ophthalmoscopes</b>  12900

Lamp Number	Lamp-Actual Size	Current Instruments	Obsolete Instruments
03000		<p><b>Ophthalmoscopes</b></p>  <p>11710</p> <p><b>StrabismoScope™</b></p>  <p>12400</p>	<p><b>Ophthalmoscopes</b></p>  <p>11600 11605 11610</p> <p><b>Retinoscopes</b></p>  <p>18000</p>
03100		<p><b>Illuminators, Transilluminators</b></p>  <p>41100 43300</p>	
03400		<p><b>Transilluminators</b></p>  <p>41110</p>	
03700			<p><b>Retinoscopes</b></p>  <p>18100</p>

Lamp Number	Lamp-Actual Size	Current Instruments	Obsolete Instruments
03900		<p><b>Ophthalmoscopes</b></p>  <p>13010</p>	<p><b>Ophthalmoscopes</b></p>  <p>12810</p>  <p>11110</p>
04400		<p><b>Ophthalmoscopes</b></p>  <p>11470/11475</p>	<p><b>Ophthalmoscopes</b></p>  <p>11400</p>  <p>11411</p>
04500			<p><b>Retinoscopes</b></p>  <p>18010</p>
04600			<p><b>Retinoscopes</b></p>  <p>17710</p>
04900		<p><b>Ophthalmoscopes</b></p>  <p>11720</p>  <p>11730</p>	<p><b>Ophthalmoscopes</b></p>  <p>11620</p>  <p>11630</p>

Lamp Number	Lamp-Actual Size	Current Instruments	Obsolete Instruments
07200		<p><b>Retinoscopes</b></p>  <p>17200</p>	
07600		<p><b>PenLite</b></p>  <p>76600</p>	
08200		<p><b>Retinoscopes</b></p>  <p>18200</p>	
08300		<p><b>Retinoscopes</b></p>  <p>18300</p>	
08400		<p><b>Retinoscopes</b></p>  <p>93300</p>	



Battery Number	Battery	Current Instruments	Obsolete Instruments
72300	3.5v 	 71000-A, 71020-A, 71000-C, 71020-C, 71055-C	
72200	3.5v 	 71670	 71000 71020
72000	2.5v 	 70700 71500	 60700
72100	2.5v 		 617 handles, 717 handles
72610		<b>CompacSet</b>  93400	
72600		<b>PocketScope</b>  72800	
72240		<b>Binocular Indirect Ophthalmoscope</b>  12000	
71960		<b>719 Lithium-Ion Handle</b>  71900	
72420		<b>SureSight</b>  14010	

# WELCH ALLYN STANDS BEHIND ITS PRODUCTS WITH OUTSTANDING LIFETIME GUARANTEES...

All Welch Allyn ophthalmic instruments are guaranteed by Welch Allyn against manufacturing defects. Welch Allyn will repair or replace, free of charge, any parts of its own manufacture proven to be defective through causes other than misuse, neglect, damage in shipment, or normal wear.

## Welch Allyn Medical Products

4341 State Street Road  
P.O. Box 220  
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or 315 685 4100  
Fax: 315 685 3361

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Arden, NC 28704-9739  
U.S.A.  
Telephone: 828 684 4895  
Fax: 828 687 1002

## Welch Allyn, San Diego, CA

7420 Carroll Road  
San Diego, CA 92121-2334  
U.S.A.  
Telephone: 858 621 6600  
Fax: 858 621 6610

## Welch Allyn Canada Ltd.

160 Matheson Blvd. East, Unit #2  
Mississauga, Ontario  
L4Z 1V4  
Canada  
Telephone: 800 561 8797 (in Canada)  
or 905 890 0004  
Fax: 905 890 0008

## Welch Allyn U.K. Ltd.

Cublington Road  
Aston Abbotts  
Buckinghamshire HP22 4ND  
England  
Telephone: 44 1296 682140  
Fax: 44 1296 682104

## Welch Allyn Lamp Policy

Welch Allyn instruments are completely engineered from the source of illumination to the instrument's usage.

Lamp manufacture is a very critical part of this system; therefore, it is recommended that you use only genuine Welch Allyn lamps.

## Welch Allyn Ireland Ltd.

Kells Road  
Navan, County Meath  
Ireland  
Telephone: 353 46 79060  
Fax: 353 46 27128

## Welch Allyn Italia Srl

Via Napo Torriani, 29  
20124 Milan  
Italy  
Telephone: 39 02 6699291  
Fax: 39 02 6671 3599

## Welch Allyn Australia Pty. Ltd.

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Rydalmere, NSW, 2116,  
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Fax: 612 9638 3500

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Quarry Bay  
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Fax: 852 2886 8360

## Welch Allyn China

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Central Plaza, No. 227  
Huang Pi Bei Road  
Huang Pi District  
Shanghai, China  
Telephone: 86 21 6327 9631  
Fax: 86 21 6327 9632

## Welch Allyn Battery Policy

Welch Allyn nickel cadmium batteries will be replaced on a pro rata basis should they fail before the date printed on the battery (when used in Welch Allyn handles only). This date represents two years after the manufacture of the battery.

## Welch Allyn Japan K.K.

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3-5-1 Kanda Jinbo-cho  
Chiyoda-ku Tokyo 101  
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Fax: 81 3 3261 7372

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The Concourse #25-08  
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Fax: 65 291 5780

## Welch Allyn Ltd. Thailand

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Krungdhburi Rd.  
Klongtongsai Klongsgsarn 10600  
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## Welch Allyn GmbH S&K

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Fax: 49 7477 92 71 90

## Welch Allyn France

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**WelchAllyn®**

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