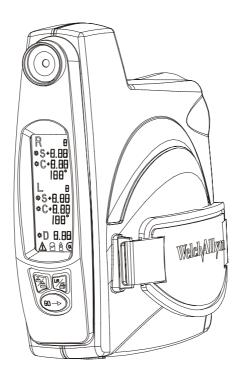
WelchAllyn ® SureSight™



Welch Allyn^{*}

4341 State Street Road Skaneateles Falls, NY 13153-0220

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Warnings & Symbols



ATTENTION: Refer to the operating instructions. This symbol (\(\begin{small} \Lambda \) is intended to advise the user of the presence of important operating or maintenance instructions in the documents accompanying the instrument.



Service or Repair to be performed by qualified, authorized personnel only. There are no user serviceable parts inside the instrument. Opening this device can expose the user to harmful invisible laser radiation.



Use only with Welch Allyn 710 series chargers.



Replacement parts and accessories - Use only approved replacement parts and accessories specified in this manual. Refer to the maintenance section of this manual for more information.



Do not sterilize the instrument or any of its components.



Use only with IEC 60601-1 approved printers, or keep printer out of patient vicinity.



Disassembly of instrument beyond the extent described in this manual will void the warranty. Refer all servicing to Welch Allyn or a Welch Allyn authorized service representative listed in the Servicing, Calibration and Warranty Information section. Opening this device can expose the user to harmful invisible laser radiation. Only the battery cover is to be opened by the user.



Battery replacement: Replace with Welch Allyn model # 72420 Lithium Ion battery only.



Do not attempt to disassemble or modify the battery pack. There are no user serviceable parts inside pack.



Do not attempt to directly solder to the battery pack.



Do not attempt to connect the positive and negative battery terminals to each other, nor to any other device.



"Caution" - use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.



Do not operate, charge, leave or discard battery pack in any environment where it may exceed 0°C to 40°C.



Do not immerse the battery pack in water.



Do not attempt to open or pierce the battery pack.



Do not strike or throw the battery pack.



Do not use a battery pack which appears to be deformed, leaking, corroded, or is otherwise irregular.



If electrolyte leaking from battery contacts your skin or eyes, rinse with running water and immediately seek medical attention.



IPXØ: Not protected against the ingress of water.



Not for use in the presence of flammable anesthetics.



Type BF Equipment.



Double Insulated.



ETL listed: UL2601-1, CSA C22.2 No. 601.1, IEC 60601-1, AS 3200.1. IEC 60601-1-2





The CE mark on this device indicates that it has been tested and conforms to the provisions noted within the 93/42/EEC Medical Device Directive.

Mises en garde et symboles





L'entretien ou la réparation ne doivent être effectués que par un personnel compétent habilité. Cet instrument ne contient pas de pièces réparables par l'utilisateur. L'ouverture de ce dispositif risque d'exposer l'utilisateur à un rayonnement laser invisible nocif.



Utiliser uniquement avec des chargeurs Welch Allyn série 710.



Pièces et accessoires de rechange – Utiliser uniquement les pièces et accessoires de rechange autorisés spécifiés dans ce manuel. Consulter la section Entretien de ce manuel pour des informations supplémentaires.



Ne pas stériliser l'instrument ni aucun de ses composants.



Utiliser uniquement avec une imprimante conforme à la norme CEI 60601-1, ou utiliser l'imprimante à distance du patient.



Un démontage de l'instrument au-delà des recommandations de ce manuel annule la garantie. Confier toutes réparations à Welch Allyn ou à un représentant agréé par Welch Allyn listé dans la section Informations sur les réparations, l'étalonnage et la garantie. L'ouverture de ce dispositif risque d'exposer l'utilisateur à un rayonnement laser invisible nocif. Seul le couvercle de la batterie peut être ouvert par l'utilisateur.



Remplacement de la batterie : Remplacer uniquement par une batterie au lithium Welch Allyn modèle n° 72420.



Ne pas essayer de démonter ou de modifier le bloc-batterie. Il ne contient pas de pièces réparables par l'utilisateur.



Ne pas essayer de souder directement sur le bloc-batterie.



Ne pas essayer de relier les bornes positive et négative l'une à l'autre, ou à d'autres dispositifs.



Attention : Des procédures de contrôle, de réglage ou de performance autres que celles qui sont spécifiées dans cette notice peuvent entraîner une exposition dangereuse au rayonnement.



Ne pas activer, charger, laisser ou jeter le bloc-batterie à un endroit où la température ambiante est inférieure à 0° C ou supérieure à 40° C.



Ne pas immerger le bloc-batterie dans l'eau.



Ne pas essayer d'ouvrir ou de percer le bloc-batterie.



Ne pas frapper ni lancer le bloc-batterie.



Ne pas utiliser un bloc-batterie qui semble fuir ou être déformé, corrodé ou anormal.



En cas de contact cutané ou oculaire avec une fuite d'électrolytes de la batterie, rincer à l'eau courante et consulter immédiatement un médecin.



IPXØ: Non protégé contre l'infiltration d'eau.



Ne pas utiliser en présence d'anesthésiques inflammables.



Equipement de type BF.



Double isolation.



Homologations ETL : UL 2601-1, CSA C22.2, N^o 601.1 et IEC 60601-1, AS3200.1, IEC 60601-1-2



Obedece la norma australiana EMC Framework



La marque CE appliquée sur ce dispositif indique qu'il a été testé et déclaré conforme aux dispositions de la directive 93/42 de la CEE sur les appareils médicaux.

Authorized European Representative Address: European Regulatory Manager Welch Allyn, Ltd. Kells Road, Navan County Meath, Republic of Ireland

Telephone: 353-46-28122 Fax: 353-46-28536

Note: This product complies with current required standards for electromagnetic interference and should not present problems to other equipment or be affected by other devices. As a precaution, avoid using this device in close proximity to other equipment.

Note: This product contains no hazardous materials. Its disposal will not contaminate or harm the environment, or present any risk to individuals disposing of the product. As a precaution, it is recommended you contact your local disposal and/or recycling authority for information regarding the disposal of the equipment.

Technical Specifications

Technology: Welch Allyn proprietary autorefractor hardware/

algorithm

Working distance: 14 inches (35 cm.)

Distance detection: Automatic, with audible and visual cues

Eyepiece: Illuminated target for easy aiming

Data acquisition time: 2.4s/eye

Data acquisition: Measures and averages 5 to 8 readings/eye

Reliability measure: Indicates number of and variation among

measurements for the given eye

Battery voltage: 7.2v nominal (Lithium Ion)

Battery life: More than 3 hours of continuous usage

Low-Battery warning: Indicates 10 - 15 minutes usage remains

Interfaces: Remove infrared link to thermal printer. RS-232

interface for IBM compatible PC for future software upgrades/data transfer to electronic medical records.

Stand: Compact charger and SureSight storage

Weight: Approximately 2.0 lbs. (0.9 Kg.)

Dimensions: $6.5" \times 7.75" \times 2"$

Class II equipment: Continuous operation.

Transport/Storage: -20°C~49°C, 10%(100% R.H. Max, 500hPa -

1060hPa Altitude

Operating: 10°C~30°C, 30%(75% R.H. Max, 500hPa - 1060hPa

Altitude

Measurement Range: Sphere: +6.0 to -4 1/2 Diopters

Cylinder: ±3 Diopters

Laser safety: Class 1 Laser Product per CDRH 21 CFR 1040.10 and

1040.11, IEC 825-1 (1996) pending and EN60825-1

(1996) pending

Patents: US 6,007,204 and Des. 413,979 and International

Patents Pending

Office illumination: Not for use in direct sunlight. Indoor operation only.

Materials: This product is latex free.

Electromagnetic Compatibility:

FCC Part 15, Class A (USA)

This device complies with CFR 47 Part 15, Class A of

the FCC Rules.

Operation is subject to the following two conditions:

(1) This device may not cause harmful interference

and

(2) This device must accept any interference received including interference that may cause

undesired operation.

Function and Intended Application

Thank you for purchasing the Welch Allyn SureSight™ Vision Screener. Please read and follow the instructions found in this manual before using your new Vision Screener to ensure accurate and reliable service.

Vision Disorders and Amblyopia

Amblyopia (lazy eye) is the leading cause of monocular blindness in North America for those under 70. However, if risk factors are detected by age 4, 95% of patients can have their vision saved and avoid the lifelong effects of amblyopia, which may include a dramatically higher chance of loss of sight in the other eye, learning delays, and limitation of career choices.

Two-thirds of children with amblyopic risk factors have refractive error (when the eye's optics fail to clearly focus images on the retina). These include anisometropia (unequal optical power of the two eyes), myopia and hyperopia (near- and far-sightedness), and astigmatism (asymmetry of focus). Furthermore, 20% of teenagers suffer from a refractive error that requires corrective lenses that can affect educational development when untreated.

The American Academy of Pediatrics, Family Practice, Ophthalmology, and Optometry all advocate pre-school vision screening, especially a key check of children aged 3 to 4. The latest research also indicates that it is a good idea to check refraction in infants - and to begin treatment by age one. Early detection reduces treatment time and expense and improves outcomes.

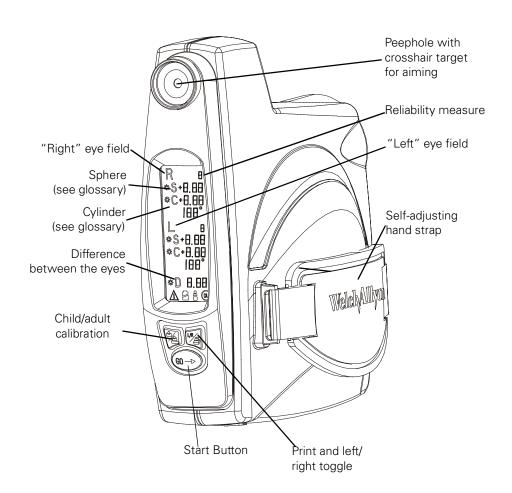
Traditionally, pediatricians and family physicians use visual acuity (eye) charts to screen for refractive vision problems. Unfortunately, acuity testing of preschoolers suffers from low compliance, poor specificity (false positives), and poor sensitivity (false negatives).

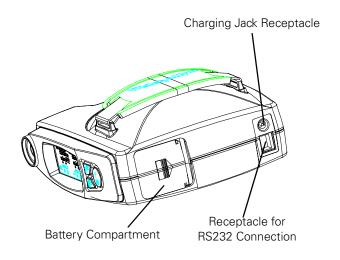
<u>SureSight™</u>

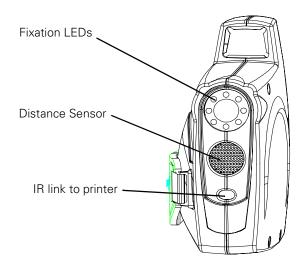
That's why Welch Allyn created SureSight™, the first objective, accurate vision test that ensures reliable early detection of refractive error, the primary vision disorder in children. Early detection improves outcomes and reduces treatment duration.

The handheld SureSight vision screener addresses the problems associated with eye chart acuity screenings - and it's effective anywhere in the office or offsite. And since minimal patient interaction is required, SureSight can be used for screening infants or handicapped patients. SureSight can also automatically test adults. With SureSight you can finally screen for serious vision problems - at well child visits or anytime - efficiently and effectively.

SureSight Display, Controls, and Features







First Time Set-Up

Stand

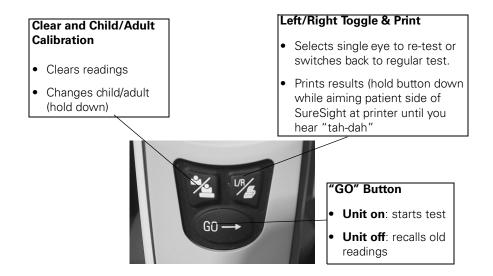
- Insert right angle connector into stand
- Optional: Two strips of hook and loop fasteners are provided on the stand.
 Attach mating strips to countertop or "home" location of the stand. For best results, clean surface and allow to dry before adhering. Hook and loop fasteners keep stand firmly in place for use, while allowing it to be removed as needed for offsite screenings.
- Insert battery:
 - 1) Open the battery cover located on the underside of the unit by sliding it in the direction indicated by the arrow and lifting out.
 - 2) Insert the new battery into the compartment in the direction of the arrow on the battery itself, so that the terminal end enters the compartment first. If necessary, rotate the lever obstructing the compartment in a clockwise direction until the compartment is unobstructed.

NOTE: Insert the battery only as directed. Failure to do so will prevent the instrument from functioning.

- 3) While pushing in on the battery, rotate the lever in a counter-clockwise direction until it covers the battery.
- 4) Replace the cover by lightly pushing in on the raised end until it is level and sliding the cover in the opposite direction of the arrow until it locks into place.

Controls

The buttons on the back of the instrument function as follows:



The instrument will turn off when unused for 1 minute. Any button pressed on the SureSight will bring up results.

Pre-test Set-up:

- Push any button to turn the unit on.
- Position the patient so that the test can be conducted level with, and square to, patient's eyes.
- Choose the appropriate calibration using the child/adult button (child mode for 6 yr. and under). Hold button until you hear a double beep and see the desired icon on the LCD.
- Explain the test procedure to the patient:
 - "Now I will check your eyes. You will see a red light in the middle of the blinking green lights."
- Position yourself at eye-level and square with the face of the patient.

Test Procedure:

- Push the "GO" button on the unit
- Check that the patient is fixated correctly throughout the test.
- Position the unit at the correct distance from the patient:
 - When the unit is too far away, you will hear slow, low-pitched beeps. ●●●●
 - Slowly move closer. At the correct distance (14"), you will hear a steady, low tone.
 - When the unit is too close, you will hear guick, high-pitched beeps.
 - The crosshair will flash in synch with the tones.
- Look through the peephole and align the crosshair on the pupil of the patient's right eye. While the unit is acquiring data, you will hear a very high-pitched chirping sound over the steady low tone.

 • • •
- If you are not acquiring data (steady tone without acquiring data chirps):
 - Scan around the pupil in an outward-moving spiral until chirps begin, then hold this location.
 - Ask the patient if they can see the red light.
- When the test of the right eye is complete, you will hear the "tah-dah" sound. (Testing resumes after 1 second, so you do not need to press any buttons for the left eye test.)
- Without changing position, <u>rotate</u> the unit to the left eye and align the crosshair over the pupil. Repeat test.
- At the end of the test, you will hear the "tah-dah" sound again.
- If the unit has not gathered enough good readings from either eye, you will hear 5 tones when the test stops. ---- You must re-test that eye.
- To stop a test at any time, hold any button until 5 tones sound.

Important Operating Tips

To insure accurate results and quick tests:

Ambient Lighting:

- Don't perform by uncovered windows
- Dimmed light can help for adults w/small pupils
 - Too dim can make it harder to find the pupil for those with dark eyes.

Entry Angle

- Position unit straight and level with patient
- Rotate unit to test left eye

Fixation: "Look at the red light"

- Remind patient and monitor fixation

Correct Distance/Not Taking Readings?

- Are you square and level?
- Scan around the pupil
- Ask patient if they see the red light

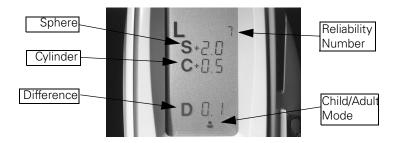
Helpful hints for testing pre-schoolers

Helpful phrases that will grab the child's attention.

- "look into the video camera while I take a movie of you"
- "look in the green circle at the red dot inside and you will hear a little birdie chirp"
- "look at the red dot inside the flashing green lights and tell me when it changes color"

Helpful tips to keeping a child still while administering the test.

- have child sit in his/her parent's lap
- have child lie down



Results

Reliability Number indicates the number of good readings obtained and their consistency, based on a 1 to 9 scale (higher numbers are better).

- ≥6 is typically acceptable [☆]
- 5 is marginal / repeat the test if possible
- <u><4</u> is poor / repetition of the test is necessary

☆ If the patient did not appear to fixate on the unit during data acquisition, repeat the test.

<u>S</u> is the **sphere**, or power of the eye measured in diopters. Negative numbers indicate myopia (near-sightedness), positive numbers indicate hyperopia (far-sightedness).

© is the **cylinder**, a measure of astigmatism, or irregular focus of the eye. **D** is the **difference** in the mean spherical power between the two eyes (displayed in child mode only).

* An asterisk on a reading in child mode indicates it is in AAP pre-school referral range.

A +9.99 or -9.99 indicates a reading outside the unit's measurement range.

Approximate Relationship of Sphere to Visual Acuity

Negative (-) Diopters	Myopia (Near- Sightedness)	Positive (+) Diopters	Hyperopia (Far- Sightedness)★★
0.0	20/20	0.0	20/20
-0.5	20/30-40	+1.0	20/20
-0.8	20/50	+2.0	20/20
-1.0	20/60	+3.0	20/25
-1.25	20/70	+3.25	20/30
-1.75	20/100	+3.75	20/40
-2.0	20/200	+4.0	20/40-50
-3.0	20/285	+4.3	20/50
-4.0	20/420	+5.0	20/70
-5.0	20/565		

**Ages 5-15

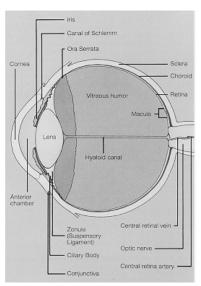
Referral Criteria

	6 Months	3-5 years*	Adults (>10 years)
Sphere	<-2.0 or >+3.5	<u>≤</u> 1.0 or <u>></u> +2.0	+/- 1.0
Cylinder		<u>≥</u> 1.0	<u>≥</u> 1.0
Difference	>1.5	<u>≥</u> 1.0	

Readings outside the normal limits should be confirmed prior to referral.

It is recommended that referral criteria be agreed upon between you and the eye care specialist receiving your referrals.

With adults, it is suggested that the eye chart be used to confirm any apparent reading outside the normal limits.



- **S Sphere**: Negative numbers are representative of **myopia**, or near-sightedness. Myopia is when distant images are blurry resulting from too much focusing power in the lens and cornea (i.e., the eye is too long). The light rays focus the image in front of the retina rather than at the retina. Positive numbers indicate **hyperopia**, or far-sightedness. **Hyperopia** is a condition in which blurred vision occurs at a close distance due to the rays of light converging on the retina short of the focal length at which they would be in focus. Causes also may include a weakness in the ability of the lens to focus, particularly at closer distances.
- The 'C' displayed represent the cylinder, which is a measure of astigmatism, or asymmetry of focus. Astigmatism is a refractive error due to an uneven curvature of the cornea, blurring some of what the person sees. An astigmatic eye typically has areas of the cornea that are steeper or flatter than normal, which produces distorted vision.
- The 'D' found under the left eye measurements indicate the difference in power between the two eyes. This is only displayed when the unit is in child calibration. This difference is mean sphere (D=S+½C) computed taking into account both the sphere and cylinder reading. It will typically be different than the algebraic difference between spheres.

¹ Peter's H.G., "Peter's Multiple Tables," Borish Clinical Refraction, Vol., 1, 3 rd Edition, p. 371

Plus or Minus Cylinder Convention

Different eye care providers express astigmatism in different forms. Ophthalmologists typically express it in plus form, which is how the Suresight has been pre-set. Optometrists typically use the minus cylinder convention. If you wish to change your unit to the minus convention:

- 1) Open the battery cover located on the underside of the unit by sliding it in the direction indicated by the arrow and lift up.
- 2) Rotate the lever holding the battery in and lift the battery from its compartment.
- 3) View the DIP switches inside the battery compartment located on the button side of the unit.
- 4) Using tweezers or another appropriate tool, pull the first switch (located on the side of the unit with the handstrap) up towards the bottom of the SureSight.

Updating SureSight Software

If it is necessary or desired to update the unit software:

- 1) Connect the cable supplied with the software disk to a PC (IBM compatible, 486 processor, Windows 3.1 or higher) RS232 port.
- 2) Connect the other end of the cable to the RS232 port on the bottom of the SureSight (when SureSight is powered down).
- 3) Insert floppy disk into PC's 3.5" floppy disk drive.
- 4) Run a:\setup to begin update.
- 5) Follow the prompts displayed on the PC.
- 6) View the DIP switches inside the battery compartment located on the button side of the unit.
- 7) Using tweezers or another appropriate tool, pull the third switch (third from side of SureSight with the handstrap) up towards the bottom of the SureSight.

Replacement and Recycling of Battery

Replacing the Battery

- 1) Open the battery cover located on the underside of the unit by sliding it in the direction indicated by the arrow and lifting out.
- Rotate the lever holding the battery in clockwise direction until the battery is unobstructed.
- 3) Carefully tip the unit to allow the battery to slide out of the compartment.
- 4) Insert the new battery into the compartment in the direction of the arrow on the battery itself, so that the terminal end enters the compartment first.

NOTE: Insert the battery only as directed. Failure to do so will prevent the instrument from functioning.

- 5) While pushing in on the battery, rotate the lever in a counter-clockwise direction until it covers the battery.
- 6) Replace the cover by lightly pushing in on the raised end until it is level and sliding the cover in the opposite direction of the arrow until it locks into place.

Charging

- A charged unit can test patients for approximately 3 continuous hours.
- With ~ 10 -15 minutes of on time remaining, the low-battery indicator will begin to flash on the display. When low-battery indicator is steady, battery must be recharged.
- To charge, place the unit completely and firmly into the stand. Unit automatically controls charge into battery when used with Welch Allyn approved 710 series chargers (Instrument will fit into the stand only one way).
- Unit will turn off when charging.

Recycling Lithium Ion Battery

Welch Allyn now employs the services of an agency which can disassemble and recycle all components of rechargeable batteries so that nothing gets landfilled or incinerated. Should you wish to dispose of your expended Welch Allyn rechargeable battery via recycling (in the U.S. and Canada only), please send to:

Welch Allyn RECYCLE BATTERY 4341 State Street Road Skaneateles Falls, NY 13153-0220 Welch Allyn Canada RECYCLE BATTERY 160 Matheson Blvd. East Mississauga, Ontario CANADA L4Z 1V4

For locations outside the U.S. and Canada consult your local recycling authority for correct disposal of batteries.

Hand Strap Replacement

- 1) Position the unit so that the hand strap is facing up and the battery door compartment is toward you.
- 2) Push the hand strap forward until the square notches beneath it are visible; hold the strap in this position with one hand.
- Insert the tool provided into one of the notches and press outward until the fastener is released.
- 4) Repeat step 3 on the other fastener.
- 5) Insert the fasteners of the new strap into the appropriate slots, so that "Welch Allyn" can be read.
- 6) Finally, pull on the strap to ensure that it is seated properly.

Cleaning and Sterilization of the SureSight

NOTE: Excess solution entering the assembly could damage internal components. Use caution to ensure cloth is not saturated with solution. Cleaning solutions should be sprayed on the soft cloth rather than directly on the SureSight device.

<u>Do not</u> sterilize SureSight or any of its components.

All windows on the SureSight can be cleaned with a soft cloth moistened with 70% Isopropyl Alcohol or any standard window cleaner.

Keep front window clean to insure proper function.

The remaining housings, softgrip, handstrap and stand may be cleaned with either a dry, soft cloth or a soft cloth moistened with any of the following: 10% Clorox solution, soapy water, 70% Isopropyl Alcohol, alcohol pads, standard window cleaner.

Service, Calibration, and Warranty Information

The serial number is located on a label inside the battery door.

Warranty

SureSight Instrument

Welch Allyn, Inc. warrants the SureSight instrument to be free of original defects in material and workmanship and to perform in accordance with manufacturer's specifications for a period of one year from the date of purchase. If this instrument or any other component thereof is found to be defective or at variance from the manufacturer's specifications during the warranty period, Welch Allyn will repair, replace, or recalibrate the instrument or component(s) at no cost to the purchaser.

This warranty only applies to instruments purchased new from Welch Allyn or its authorized distributors or representatives. The purchaser must return the instrument directly to Welch Allyn or an authorized SureSight distributor or representative and bear the cost of shipping.

This warranty does not cover breakage or failure due to tampering, misuse, neglect, accidents, modification or shipping, and is void if the instrument is not used in accordance with manufacturer's recommendations or if repaired or serviced by other than Welch Allyn or a Welch Allyn authorized representative.

NOTE: Return of the instrument registration card is required for proof of purchase and warranty validation, and to automatically receive free software upgrades that may occur during the warranty period.

Service and Warranty

For customers in North America, please return instruments requiring service to Welch Allyn Technical Service Department listed below or to an authorized Welch Allyn Technical Service Department.

Technical Service Department Welch Allyn, Inc. 4341 State Street Road Skaneateles Falls, NY 13153-0220 Telephone: 1-800-535-6663

Fax: 1-315-685-4653 (Technical Services)

In Canada:

Telephone: 1-800-561-8797

Fax: 1-905-890-0008

SureSight Rechargeable Battery

Welch Allyn Lithium Ion batteries are warranted by Welch Allyn for two years from date of manufacture (when used in Welch Allyn instruments only). Defective batteries will be replaced on a pro rata basis should failure occur prior to expiration date on battery.

Calibration and Maintenance



When the calibration symbol is shown, it indicates that it has been 12 months since the unit was last calibrated. It is recommended that you send the unit in for re-calibration.

Welch Allyn recommends that the SureSight be recalibrated annually. Arrangements may be made by returning the SureSight registration card or by contacting Welch Allyn's Technical Service Department. A moderate fee is charged for re-calibration.

Appendix

Glossary of Terms

Amblyopia: An uncorrectable marked loss of visual acuity in one eye; "lazy-eye." Causes of amblyopia include: refractive errors, strabismus, and cataracts.

Anisometropia: The difference in refractive error between the two eyes, also known as refractive difference.

Astigmatism: A refractive error due to an uneven curvature of the cornea, resulting in asymmetrical focus which blurs some of what the person sees. An astigmatic eye typically has areas of the cornea that are steeper or flatter than normal, which produces distorted vision.

Cylinder: A measure of the power of astigmatism

False Negative: A test or procedure that indicates the abnormality or disease being investigated is not present when in fact it is.

False Positive: A test or procedure that indicates the abnormality or disease being investigated is present when in fact it is not.

Focal Length: The distance at which a lens focuses.

Hyperopia: Far-sightedness; close images are blurry due to the rays of light converging on the retina short of the focal length at which they would be in focus.

Myopia: Near-sightedness; a condition in which distant images are blurry resulting from too much focusing power in the lens and cornea. The light rays focus in front of the retina rather than at the retina.

Sphere: The power of the eye, which determines hyperopia and myopia.

<u>Strabismus</u>: Intermittent or constant misalignment of the eyes; sometimes referred to as muscle problems.

WelchAllyn® SureSight™

4341 State Street Road Skaneateles Falls, NY 13153-0220