



Instructions

Intended Use

This device is intended for medical purposes to illuminate body surfaces. It is used for non-invasive visual examination of intact skin.

This battery-operated product is designed for external examination only within professional healthcare facilities by medical professionals. Check the correct operation of the device before use! Do not use the device if there are visible signs of damage.

CAUTION: Do not look directly into the LED light. Patients must close their eyes during examinations. In case of a serious incident with the use of this device, notify DermLite immediately and, if required by local regulations, your national health authority. **CAUTION:** Do not use the device in fire or explosive risk area (e.g. oxygen-rich environment). **WARNING:** This product can expose you to chemicals including methylene chloride and hexavalent chromium, which are known to the State of California to cause cancer or reproductive toxicity. For more information go to www.P65Warnings.ca.gov.

Electromagnetic Compatibility

This device complies with the EMC Emissions and Immunity level requirements of the standard IEC 60601-1-2:2014. The emissions characteristics of this equipment make it suitable for use in industrial areas and hospitals (CISPR 11 class A). If it is used in a residential environment (for which CISPR 11 class B is normally required), this equipment might not offer adequate protection to radio frequency communication services, and the user might need to take mitigation measures, such as relocating or re-orienting the equipment.

WARNING: Use of this equipment adjacent to or stacked with other equipment should be avoided because it could result in improper operation. If such use is necessary, this equipment and the other equipment should be observed to verify that they are operating normally.

WARNING: Use of accessories other than those provided by the manufacturer of this equipment could result in increased electromagnetic emissions or decreased electromagnetic immunity of this equipment and result in improper operation.

WARNING: Portable RF transmitters should be used no closer than 30 cm (12 inches) to any part of the device. Otherwise, degradation of the performance of this equipment could result.

WARNING: To avoid the risk of electrical shock, inspect the battery charger cable and plug for damage before use. Do not use the v900L or accessories if damaged.

CAUTION: DO NOT drop any component of the system. Physical shock may cause permanent damage.

CAUTION: DO NOT use the system as a light to navigate your environment.

CAUTION: DO NOT allow metal objects or body parts to touch electrical connections.

CAUTION: DO NOT operate machinery, equipment or vehicles with the v900L positioned on the head and do not walk or climb stairs while wearing the v900L to avoid a tripping or falling accident.

CAUTION: DO NOT wear the v900L if you experience any strain in the neck, eyes or other areas. Turn v900L off before storage.

CAUTION: DO NOT block any opening of the system. Doing so may cause overheating of the Illuminator Module. Avoid operating the system in dusty environments.

The Syris v900L Vision Enhancement System combines proprietary LED illumination, polarization, and magnification technology to enhance the vision of medical professionals during dermatological procedures. The system removes surface glare from the patient's dermal layer promoting improved viewing of sub-surface features.

Powered by a lithium ion battery, the system

provides mobility for the user. The polarizer rotates to allow for surface and sub-surface viewing. The adjustable Visi-Shield provides magnification and a clear field of view.

CAUTION: DO NOT position the AC power supply and Charger Base (CB) where it is difficult to disconnect the power supply from the AC wall outlet.

CAUTION: DO NOT plug the power supply's L-shaped connector into Control Module (CM). **CAUTION:** Do not use a battery (B) that is visibly damaged or the Charger Base indicates a faulty battery.

CAUTION: This device uses a special 7.4V lithium-ion battery which can only be purchased from DermLite or an authorized DermLite dealer. Do not under any circumstances use another battery other than the one designed for this unit.

Before initial use of the v900L, you should fully charge the battery (B) using the Charger Base (CB). Select the appropriate AC adapter for your region and ensure that it snaps securely into the power supply. Plug the power supply into an approved wall outlet (100-240V, 50/60Hz and its small right-angle plug into the Charger Base. Without a battery installed, the Charge Indicator (CI) is solid red.

Install the Battery into the Charger Base by placing its bottom edge on the Base's ledge, then pressing the Release Button (RB) and pushing the battery into the Charger Base until it snaps in place. The Charge Indicator (CI) LED begins to blink green indicating that charging has begun. Charging is complete when the LED turns solid green, approximately five hours for the initial full charge. A blinking red LED indicates a faulty battery or charger. Removing the battery requires pressing the Release Button (RB). To allow for nearly uninterrupted use of the v900L, it is recommended that multiple batteries are purchased (part no. VTS1000-BAT).

Using the Control Module

CAUTION: DO NOT touch the battery contact of the Battery (B) and the patient at the same time.

With the battery inserted into the Control Module (CM), attach it to your belt. Prior to inserting the L-shaped plug of the Illuminator Cable (IC) into the Control Module, make sure your belt is secure on the body.

Press the blue power button (PB) on the Control Module for full brightness. Depressing it a second time reduces the light intensity. Depressing it a third time shuts off the power.

The Control Module is equipped with a three-level Battery Indicator (BI). The indicator is green when over 30 minutes of operation time remain; it turns orange at less than 30 minutes and red when less than 10 minutes at full power remain. When red, the unit emits three audible signals every 30 seconds until it automatically shuts down. Actual times may vary.

Operating at the lower brightness setting extends the operation time by approximately 33%.

Wearing the Device

After placing the v900L device on your head, a secure and comfortable fit is achieved with the use of two adjustment knobs. To adjust elevation, use the Top Knob (TK). For a tighter fit, turn the Back Knob (BK) clockwise. Turning the knob counter-clockwise achieves a looser fit. Position the v900L on your head and turn the Top Knob (TK) to ensure that the front of the headband sits comfortably above your eyebrows and the rear of the headband sits at the base of the occipital lobe. Use the Back Knob (BK) for comfortably tight fit around your head.

Adjust the position of the Visi-Shield (VS) by gently raising or lowering its Support Arm (SA) and moving the Visi-Shield forward or back. When properly positioned, the magnifying lens should be in your normal line of sight.

Move the Illuminator Module (IM) up or down to illuminate your exam field. Turn the Polarizer (P) to

enhance sub-surface or surface structures, as desired.

With a charged battery installed in the Control Module (CM) and the Illuminator Cable (IC) connected to the Control Module, press the blue Power Button (PB) to turn on the V900L at its brightest setting. An audible beep and a green LED confirm that the unit is on. To reduce light intensity, push the button a second time, confirmed by an audible beep. A third press of the button turns the unit off, which is confirmed by another audible beep and all LEDs turning off.

Headband Pads

The Headband Pads (HP) may be cleaned or replaced as desired. To maintain a high level of comfort and sanitation, it is recommended that the pads be replaced monthly. Additional Headband Pads (part no. v900L-80) may be purchased from DermLite or your DermLite dealer.

Troubleshooting

Please check www.derm-lite.com for the most current troubleshooting information. If your device requires servicing, visit www.derm-lite.com/service or contact your local DermLite dealer.

Care and Maintenance

CAUTION: No modification of this equipment is allowed.

Your device is designed for trouble-free operation. Repairs shall be made only by qualified service personnel.

Cleaning

The exterior of your device, except the optical parts, may be wiped clean with isopropyl alcohol (70% vol.) prior to use on a patient. The lens should be treated as high-quality photographic equipment and should be cleaned with standard lens cleaning equipment and protected from harmful chemicals. Do not use abrasive material on any part of the equipment or immerse the device in liquid. Do not autoclave.

Warranty: 5 years for parts and labor. The battery is warranted for 1 year.

Disposal

This device contains electronics and a lithium-ion battery that must be separated for disposal and may not be disposed of with general household waste. Please observe local disposal regulations.

The Syris v900L set includes: V900L vision system (illumination module with adjustable polarization, 3 removable headband pads, illuminator cable, Visi-Shield with polarizer and magnifying lens), control module, charger base, battery, power supply with international AC adapters, storage case

Technical Description

Visit www.derm-lite.com/technical or contact your local DermLite dealer.