



Pediascan® and Maxiscan® Preventative Maintenance and Cleaning Procedure

Cleaning the Pediascan® or Maxiscan® Transilluminator Exterior

Preventive maintenance of the **Maxiscan® Model 1000** and **Pediascan® Models 100, 200, and 500** consists primarily of periodic cleaning and recharging of the device using genuine battery chargers supplied from Sylvan Corporation (K913 Battery Charger).

Exterior cleaning of the device can be done with a soft brush and a cloth. Gently brush all surfaces to remove dirt and dust. Remove any remaining dirt with a cloth slightly dampened with a solution of mild detergent and water, isopropyl alcohol, or a liquid disinfecting agent. Be especially careful not to permit any liquid to seep in the units during cleaning. Additionally, the unit should **never** be submerged to clean or scrubbed with an abrasive cleaner.

If the device fails to produce a light beam and the batteries are adequately charged, the light bulbs (P112 – Lamp Assembly) may need to be replaced. **If the unit was dropped, contact Sylvan Corporation immediately.** Contact a Sylvan Corporation representative or technician for replacement parts and procedure of replacement.

CAUTION: Do not clean while unit is turned on. If the enclosure is cracked, send into Sylvan Corporation for repair before cleaning for risk or cuts. If unit is dropped, send the unit into Sylvan Corporation for repair.

Cleaning the Pediascan® or Maxiscan® Transilluminator Interior

Interior preventative maintenance should only be done by trained biomedical engineering staff or sent into Sylvan Corporation for evaluation. Clean with isopropyl alcohol and dust with low pressurized air as necessary.

CAUTION: Do not touch any metal contacts, they may be electrically charged and there is a risk of minor electrical shock. Do not touch the lamp bulb with bare hands. If the lamp bulb comes in contact with human skin, thoroughly clean the bulb with isopropyl alcohol and cotton cloth. Do not turn lamps on while cleaning the unit. The lamps get very hot and will transfer heat to interior metal sub-components.

Disinfecting and Cleaning the P101 Fiberoptic Lightpipe

Autoclaving Instructions for Fiberoptic Cables (P101 Fiberoptic Lightpipe)

1. Standard Gravity Sterilizer – Wrap Fiberoptic cable in a surgical towel and place in a clean, open tray. Sterilize for 30 minutes 250 degrees Fahrenheit at (15 psi) or 121 degrees Celsius at 1 Kg/Cm².



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Direct: 724•864•9350 - Fax: 724•864•7138 - info@sylvanmed.com - www.sylvanmed.com

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2. High Speed Instrument (Flash) Sterilizer – Wrap Fiberoptic cable in surgical towel and place in an open tray. Sterilize for 3 minutes 270 degrees Fahrenheit at (30 psi) or 132 degrees Celsius at 2Kg/Cm2.

Pressure differential during steam autoclaving may cause small bubbles in the silicone tubing. The bubbles will not affect the Fiberoptic cable and dissipate with time.

Cleaning Fiberoptic Cables (P101 Fiberoptic Lightpipe):

Should the fiberoptic cable (P101 Fiberoptic Lightpipe) become contaminated, before use wipe with isopropyl alcohol or clean thoroughly with a soft-bristled brush in hand-warm water/soap solution to remove possible contaminants. Use a non-oily cleaner or mild soap.

Do not use synthetic detergents or oil-based soap as these soaps may be absorbed and may subsequently leach out to cause a tissue reaction. Rinse copiously in hand-warm water. Follow with a thorough rinse in distilled water and re-sterilize.

Checking P101 Lightpipe Efficiency

To check the efficiency of the P101 Fiberoptic Lightpipe, simply hold one open end up to any standard light source (100 watt or less) and check the opposite end. Any black voids in the exit tip will reveal broken light strands. As long as the silicone exterior is intact, this poses no danger. If the light output from the fiberoptic lightpipe is less than 85%, the light output is unacceptable and should be replaced. Contact Sylvan for details or questions.

CAUTION: Do not bend the fiberoptic lightpipe more than 30 degrees. Do not cut the fiberoptic lightpipe or have the silicone exterior come in contact with any sharp edges while cleaning. Do not clean fiberoptic lightpipe while connected to the unit and be sure the unit is turned off.

Recharging the Pediascan® and Maxiscan® Transilluminators

The Pediascan® and Maxiscan® transilluminators are designed to be kept on charge until needed for use. Turn the unit off before charging. **These units will not illuminate while the charger is plugged into the unit.** This is to prevent an over-surge of the battery and to extend lamp and battery life. **Only use Sylvan supplied batteries and battery chargers with these units.**

The internal battery packs have approximately 5000 recharges in its lifetime. With supplied chargers, the batteries take 2-4 hours to recharge from full discharge. There is a 20 minute fast charge features with the K913 Battery Charger, which allows roughly 30 minutes of use at nominal output. Refer to battery charger manual for more detailed charging instructions.

CAUTION: Do not charge unit while unit enclosures are not connected. Do not use any other charger or battery than those supplied by Sylvan Corporation. Do not use charger if the connecting cable is frayed or exposed.

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