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1. Indications for Use

The intended use of the Stryker VISUM® Lighting system is to illuminate the patient’s surroundings, as well as the body of the patient to support diagnosis and treatment. It has not been designed as a surgical light, or for use by the patient.

The VISUM® is considered a Class I medical device. It is a luminaire for diagnosis meant to illuminate the body of the patient locally in order to support diagnosis or treatment which could be interrupted without any hazard for the patient in case of failure of the light. It is not intended for use in operating rooms.

1.1 Item Installation Package List

1. Down Tube Assembly (see Figure 5)
   - Down Tube
   - Ceiling Cover
   - Protective Cover

2. Extension Arm and Spring Arm Assembly (see Figures 1, 8, 9):
   - Plug
   - C-Clip / Retaining Ring
   - C-Clip / Retaining Ring Installation Pliers
   - Light Head Keeper Clip
   - Brake Screw
   - Brake Cover
   - Protective Cap
   - Keyed Washer
   - Flat Washer

3. Light Head Assembly:
   - Light Head (see Figure 2)
   - Sterilizable Handle (see Figure 3)


5. Installation Hardware Kit:

   - 3/8" UNC Threaded Rods, 12" Long
   - Flat Washers
   - Lock/Spring Washers
   - 3/8" Nuts
2. Warnings and Cautions

Please read this manual and follow its instructions carefully. The words WARNING, CAUTION, and Note carry special meanings and should be carefully reviewed:

⚠️ **Warning:** The personal safety of the patient or user may be involved. Disregarding this information could result in injury to the patient or user.

⚠️ **Caution:** Special service procedures or precautions must be followed to avoid damaging the instrument.

⚠️ **Warning:** A lightening bolt is intended to warn of the presence of hazardous voltages. Refer all service to authorized personnel.

👉 **Note:** Special information to make maintenance easier or important information more clear.

To avoid potential serious injury to the user and the patient and/or damage to this device, the user must adhere to the following warnings and cautions.

### 2.1 Warnings
1. Read this manual thoroughly, and be familiar with its contents prior to using this equipment.
2. This equipment can only be used by (or on the order of) a physician.
3. Test this equipment prior to any procedures. This product was fully tested at the factory before shipment.
4. Do not remove or disable components. It may cause electric shock.
5. Attempt no repairs or adjustments, unless specifically instructed to do so in this operating manual.
6. Disconnect the unit from the electric outlet before inspecting or servicing system components.
7. Do not look directly into the exam light while powered on.
8. Do not operate the exam light if any component of the light (such as the glass) is damaged.

### 2.2 Cautions
1. Do not add additional weight to the exam lights.
2. Do not place anything over the exam lights.
3. Follow the care and cleaning instructions in this manual.
4. Adjustments, modifications, and/or repairs not described in this manual should be performed only by Stryker personnel.
5. The electrical installation of the operating room must comply with any applicable IEC, CEC, NEC requirements as well as the local codes and pre-installation manual.
# 3. Product Symbol Definition

The following symbols may be found on the Stryker VISUM® 300 Ceiling-Mounted Exam Light:

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="exclamation-mark.png" alt="Exclamation Mark" /></td>
<td>An exclamation mark within a triangle is intended to alert the user to the presence of important operating and maintenance (service) instructions in the literature accompanying the product.</td>
</tr>
<tr>
<td><img src="temperature-limits.png" alt="Temperature Limits" /></td>
<td>Denotes temperature limits.</td>
</tr>
<tr>
<td><img src="humidity-limits.png" alt="Humidity Limits" /></td>
<td>Denotes humidity limits.</td>
</tr>
<tr>
<td><img src="usage-tips.png" alt="Usage Tips" /></td>
<td>Denotes usage tips and useful information.</td>
</tr>
<tr>
<td><img src="compliance.png" alt="Compliance" /></td>
<td>Denotes compliance to CSA Standard C22.2, 60601.1 - M90, AS 3200, IEC 60601, IEC 60601-2-41, UL 60601, EN 60601</td>
</tr>
<tr>
<td><img src="manufacturing-date.png" alt="Manufacturing Date" /></td>
<td>Denotes the date the equipment was manufactured.</td>
</tr>
<tr>
<td><img src="manufacturer.png" alt="Manufacturer" /></td>
<td>Denotes the manufacturer of the device.</td>
</tr>
<tr>
<td><img src="product-part-number.png" alt="Product/Part Number" /></td>
<td>Denotes product/part number.</td>
</tr>
<tr>
<td><img src="product-serial-number.png" alt="Product/Serial Number" /></td>
<td>Denotes product/serial number.</td>
</tr>
<tr>
<td><img src="lot-batch-number.png" alt="Lot/Batch Number" /></td>
<td>Denotes lot or batch number.</td>
</tr>
<tr>
<td><img src="ec-rep.png" alt="European Representative" /></td>
<td>Denotes European Representative.</td>
</tr>
</tbody>
</table>
4. VISUM® 300 Components

Figure 1 - VISUM® 300 Components

<p>| | | | | | | | | | | |</p>
<table>
<thead>
<tr>
<th></th>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
</tr>
</tbody>
</table>

1. Sheet Metal Guard
2. Down Tube Flange
3. Sheet Metal Enclosure
4. Ceiling Cover
5. Down Tube
6. Extension Arm
7. Elbow
8. Spring Arm
9. Power Switch
10. Light Head
11. Light Handle Assembly

Figure 2 - VISUM® 300 Light Head

Figure 3 - Sterilizable Handle
5. Installation

⚠️ **Warning**
- The light should be installed down circuit from a circuit breaker, or should be installed with a switch to turn the main power off.
- Make sure that the power to the installation site is off during all installation procedures.

Refer to the VISUM® 300 Ceiling-Mounted Exam Light Pre-Installation Manual for load data on the VISUM® 300 CM. (Installation hardware is provided with all products and should be in the final package.)

5.1 Installing the Down Tube Assembly

The following steps assume a ceiling structure with the hole pattern specified in the VISUM® 300 Ceiling-Mounted Exam Light Pre-Installation Manual. Refer to Figures 4-7 as needed.

1. Loosen the three set screws and remove the retaining ring and ceiling cover.
2. Inspect the ceiling structure.

⚠️ **Warning**
Make sure that the super structure is at least 3-8” above the false ceiling, as shown in Figure 4.

3. Attach the down tube assembly to the ceiling super structure as follows:
   - Insert and fasten the threaded rods into the ceiling super structure as shown in Figure 5.
   - Install the upper 3/8” nuts and flat washers onto the threaded rods as shown in Figure 5. Depending on down tube length, ensure that the bottom of the washer is the correct height above the bottom of the false ceiling.
   - Raise the down tube assembly into the ceiling while guiding the threaded rods into the holes in the down tube flange shown in Figure 6.
   - Install the lower flat washers, spring washers, and 3/8” nuts onto the threaded rods as shown in Figure 7.
4. Make sure the ceiling plate is level in two directions.
5. Have an electrician:
   - Run conduit with ¾” fitting into the sheet metal guard.
   - Run 6’ power cable through the conduit and connect the lines at the junction box.
6. Raise the sheet metal enclosure and hand tighten the three screws to the sheet metal guard. Use a Phillips screw driver to tighten the remainder.
7. Raise the ceiling cover and retaining ring to the ceiling and fasten the three set screws. Make sure the ceiling cover is flush with the bottom of the false ceiling.
Figure 4 - Down Tube, Super Structure, and False Ceiling

Figure 5 - Down Tube Assembly Preparation

<table>
<thead>
<tr>
<th>Down Tube Height</th>
<th>H</th>
<th>110mm</th>
<th>1&quot; + .25&quot;</th>
<th>0</th>
</tr>
</thead>
<tbody>
<tr>
<td>220-800mm</td>
<td>1&quot;-2&quot;</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1. Spring Washer
2. Flat Washer
3. Nut
4. Upper Nut
5. Upper Flat Washer
Figure 6 - Detail of Installation Without Ceiling Cover

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>2.</td>
<td>Junction Box</td>
<td>10.</td>
</tr>
<tr>
<td>3.</td>
<td>Conduit and Fitting (Customer Supplied)</td>
<td>11.</td>
</tr>
<tr>
<td>5.</td>
<td>Transformer Mounting Screw</td>
<td>13.</td>
</tr>
<tr>
<td>7.</td>
<td>Transformer</td>
<td>15.</td>
</tr>
<tr>
<td>8.</td>
<td>Transformer Clamping Ring</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Description</td>
<td></td>
</tr>
<tr>
<td>---</td>
<td>-------------------------------------------------------</td>
<td>---</td>
</tr>
<tr>
<td>1</td>
<td>Conduit Fitting (Customer Supplied)</td>
<td>6</td>
</tr>
<tr>
<td>2</td>
<td>Down Tube Flange</td>
<td>7</td>
</tr>
<tr>
<td>3</td>
<td>Sheet Metal Guard</td>
<td>8</td>
</tr>
<tr>
<td>4</td>
<td>Upper Nut</td>
<td>9</td>
</tr>
<tr>
<td>5</td>
<td>Upper Flat Washer</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td></td>
<td>11</td>
</tr>
</tbody>
</table>
5.2 Installing the Extension Arm with the Spring Arm
Perform the following steps to install the extension arm with the spring arm. Refer to Figure 8 as needed.

1. Unscrew the Phillips-head screw.
2. Remove and discard the protective cover installed on the down tube axle (not shown in Figure 8).
3. Push the extension arm with the spring arm onto the down tube assembly.
4. Insert the keyed washer into the hole, and install the C-clip/retaining ring.

**Warning**

- Make sure the retaining ring is seated correctly in the down tube C-clip slot. Do not overextend the C-clip when installing. Overextending the C-clip will prevent the C-clip from locking into the down tube axle, which could result in the extension arm falling and causing serious injuries.
- If the keyed washer is not installed, the retaining ring can become loose. If this occurs, equipment can fall from fixtures, causing serious injuries.

5. Make sure the suspension is seated firmly.
6. Insert the plug into the bottom of the down tube.
7. Tighten the Phillips-head screw to secure the plug.

<table>
<thead>
<tr>
<th></th>
<th>Down Tube Axle</th>
<th>Keyed Washer</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td></td>
<td>5.</td>
</tr>
<tr>
<td>2.</td>
<td>Hole for Keyed Washer</td>
<td>6. C-Clip/Retaining Ring</td>
</tr>
<tr>
<td>3.</td>
<td>Suspension</td>
<td>7. Plug</td>
</tr>
</tbody>
</table>

Figure 8 - Installing the Extension Arm

5.3 Attaching the Light Head
Perform the following steps to attach the light head to the spring arm. Refer to Figure 9 as needed.

1. Make sure the power to the suspension is disconnected.
2. Pull the spring arm down until it reaches the stop.

**Warning**

The spring arm is under high spring tension. Since the arm is not in its highest position when this procedure is performed, the arm may jump suddenly, causing injury.
3. Remove and discard the protective cap on the spring arm.
4. Install the brake cover over the spring arm so that the keeper clip slots in the spring arm and brake cover are aligned.
5. Push the end of the light head into the spring arm, and install the keeper clip.
6. Rotate the brake cover 180° until it is lined up with the hole, and install the brake screw.

Figure 9 - Attaching the Light Head

<table>
<thead>
<tr>
<th></th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Keeper Clip</td>
</tr>
<tr>
<td>2</td>
<td>Brake Screw</td>
</tr>
<tr>
<td>3</td>
<td>End of Light Head</td>
</tr>
<tr>
<td>4</td>
<td>Brake Cover</td>
</tr>
<tr>
<td>5</td>
<td>Slot</td>
</tr>
</tbody>
</table>
6. Operations

6.1 Turning the Light On and Off
The switch for turning the light on and off is located at the end of the light head, as shown in Figure 10. The “On” setting is indicated on the switch by a “1”; the “Off” setting is indicated by a “0”.

6.2 Positioning the Light Head/Suspension

⚠️ **Warning**
The light head should be positioned at least 24 inches from the patient, in order to prevent burns and wound drying. Positioning the light head at this distance also ensures optimal performance.

The light can be positioned in various ways using the light head handle. The light can be used with or without a sterilizable handle.

The head itself may be rotated 360° and tilted 180°. The spring arm and horizontal arm can be moved separately. The spring arm has 90° of vertical movement and 360° of horizontal movement. The extension arm also has 360° of horizontal movement. You can adjust the positioning of the light as shown in Figure 11.

6.3 Removing and Reattaching the Sterilizable Light Handle Cover
Perform the following steps to remove and reattach the sterilizable light handle cover. Refer to Figure 12 as needed.

1. To remove the optional sterilizable handle cover, press the round metal button at the base of the handle, and pull the cover off of the handle.
2. To reattach the cover, align the hole on the cover and the button on the handle, then slide the cover into place.
3. Twist the handle cover, until you hear a click, indicating that the handle cover is locked in place.
Figure 11 - Positioning the Light Head/Suspension

1. Button
2. Handle

Figure 12 - Sterilizable Light Handle Cover
6.4 Cleaning and Disinfecting the Sterilizable Light Handle Cover

⚠️ Cautions

- The button is not sterilizable.
- Power off system before cleaning. Make sure that no cleaning fluid enters the system.
- To avoid damage to plastic parts, do not use any scouring, alkaline, acidic, or alcohol-based cleaning agents.
- Allow the light to cool before disinfecting.
- Handles are shipped non-sterile. Clean and sterilize handles prior to use.

🔍 Note: Cleaning and disinfecting must be carried out by trained personnel.

Wipe the surfaces with a cloth and, if required, a mild cleaning solution.

6.4.1 Cleaning

1. Rinse the handle under running lukewarm water, flushing water through all passages.
2. Submerge the entire handle in an enzyme-action detergent prepared according to the manufacturer’s recommendations. Remove debris and bioburden from all surfaces using a soft brush.
3. Rinse the handle thoroughly under running lukewarm water, flushing water through all passages.
4. Dry the handle with a lint-free cloth and inspect the handle to make sure it is free of debris.

6.4.2 Sterilization

The sterilization methods in the following table have been validated:

<table>
<thead>
<tr>
<th>Sterilization Method</th>
<th>Temperature</th>
<th>Exposure Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gravity-displacement steam sterilization (single-wrapped)</td>
<td>132 °C (270 °F)</td>
<td>10 minutes</td>
</tr>
<tr>
<td>Gravity-displacement steam sterilization (double-wrapped)</td>
<td>121 °C (250 °F)</td>
<td>25 minutes</td>
</tr>
<tr>
<td>Pre-vacuum cycle (double-wrapped)</td>
<td>134 °C (273 °F)</td>
<td>2 minutes</td>
</tr>
</tbody>
</table>

🔍 Note: These cleaning and sterilization instructions are only recommended instructions and may vary among hospitals depending upon the type of cleaning/sterilization equipment and possible pathogens in the particular area. These instructions represent exposure time and not total cycle time. The recommended cleaning/sterilization parameters may be modified based on standard hospital cleaning/sterilization protocol.
6.5 Replacing the Halogen Bulb

Perform the following steps to replace the halogen bulb.

**Warning**

Allow the light to cool before attempting maintenance.

**Caution**

Do not touch the halogen bulb directly; instead, grasp the reflector.

1. After the light has been turned off and allowed to cool, remove the optional sterile handle if necessary.
2. Unscrew the two thumbscrews at the base of the handle assembly, and pull the handle assembly straight out of the light head.

3. Firmly grasp the bulb and pull straight out from the handle assembly to remove it.

4. Using the screwdriver provided, remove the porcelain bulb holder by removing the two screws.

5. Remove bulb and porcelain from packaging.
6. Remove the bulb from porcelain bulb holder.

7. Insert the new bulb holder and tighten the two screws.

8. Insert the replacement bulb into the socket of the porcelain bulb holder.

9. Replace the handle assembly. Guide the banana clips into the power receptacles, ensuring that the handle assembly is seated against the face glass.

10. Secure with the two thumbscrews at the base of the handle assembly.
6.6 Replacing Fuses

⚠️ Warning

Turn off the light and disconnect power from the unit before changing the fuses.

Perform the following steps to replace fuses.

1. Remove the ceiling cover by unscrewing the three set screws and then sliding the cover down the down tube, as shown in the picture to the right.
2. Remove the sheet metal enclosure by unscrewing the three captive screws and then sliding it down the tube.

⚠️ Note: For short down tubes, the removal of the extension arm may be necessary in order to obtain access to the flange.

3. Grasp the black plastic fuse holders (indicated in the picture to the right) with two fingers and pull firmly to remove.
4. Check the fuses and replace them if necessary.
   - For 115V models, use a 1 amp fuse

5. Slide the fuse holders (see the sample to the right) back into place.

⚠️ Note: The fuse holders can only be inserted in one direction. If you are having difficulty inserting the fuse holders back into place, make sure that they are facing the correct direction.
6.7 Replacing the Transformer

⚠️ Warning
Turn off the light and disconnect power from the unit before changing the transformer.

Perform the following steps to replace the transformer.

1. Remove the light head and spring arm assembly according to the “Removing the Light Head” and “Removing the Extension Arm with the Spring Arm” procedures in the Stryker VISUM® 300 Ceiling-Mounted Exam Light Installation, Operations, and Maintenance Manual.

2. Remove the ceiling cover and the sheet metal enclosure from the ceiling.

3. Have an electrician power down the room and disconnect the power cord at the flange.

4. Tape up the end of the black cable (shown) so that the loose wires are not spread out, and attach a string to the end of the black cable (for pulling the cable back through the down tube later in this procedure).

⚠️ Warning
An electrician must power down the room and unterminate the power cord at the flange.

5. Remove the three “hex” screws holding the commutator assembly in the down tube.

6. Make sure all wiring has been disconnected from the transformer.
7. Gently pull the commutator assembly out of the down tube while also feeding cable through hole at the top of the down tube. Attach a pull-string to the cable to help pull the cable back after installing the new transformer.

8. Unthread the clamping nut and clamping components to remove the transformer from the assembly.

9. Install the new transformer along with the clamping components, rethreading the clamping nut to hold it in place.

⚠️ **Note:** If the part is still hanging from the ceiling, watch out that transformer does not fall when all wiring is disconnected and cable is pulled into the down tube.

10. Reinstall the three hex screws that hold the commutator assembly. Take special note of the visible hole and screw distance shown to the right, so as to avoid inserting the commutator too far into the down tube (which would not allow installation of the extension arm).

11. Connect the transformer wires as shown in Figure 13 or Figure 14, as applicable.

12. Reinstall the sheet metal enclosure and the ceiling cover.

13. Reinstall the extension arm and light head according to the “Installing the Extension Arm with the Spring Arm” and “Attaching the Light Head” procedures in the Stryker VISUM® 300 Ceiling-Mounted Exam Light Installation, Operations, and Maintenance Manual.
6.8 Replacing the Aesthetic Covers

⚠️ Warning

Disconnect power from the unit before replacing the aesthetic covers.

Perform the following steps to replace the aesthetic covers.

1. Turn off the light and disconnect power from the unit.
2. Gently pry the covers loose using a medium, standard-edge screwdriver (be careful not to damage reusable components).
3. Slide the covers away from the suspension.

4. If the elbow cup collar needs to be replaced, first remove the light head according to the “Removing the Light Head” procedure in this manual, then remove the grounding screw and the brake cover from the end of the spring arm so that you can slide the elbow cap collar completely off.
5. Reinstall the covers by reversing the removal process.

6. Align the cover cut-out as shown.

7. Make sure covers “snap” securely in place.
8. Replace the grounding screw.
6.9 Removing the Light Head

**Warning**
- Make sure that the light is turned off and power is disconnected from the suspension before performing this procedure.
- The spring arm is under high spring tension. If the arm is not in its highest position, when this operation is performed, it may jump suddenly, causing injury.

Perform the following steps to remove the light head.

1. Push the spring arm into its highest position.
2. Turn the brake screw so that the brake cover can be rotated.
3. Rotate the brake cover 180° until the keeper clip appears in the slot.
4. Hold the light head firmly and remove the keeper clip with a narrow slotted screwdriver.
5. Remove the light head and take precautions to adequately protect the commutator from damage.

**Note:** After the light head has been removed and serviced, you can either reattach it to the spring arm according to the “Attaching the Light Head” procedure in this manual or, if desired, remove the extension arm with the spring arm according to the following procedure.

6.10 Removing the Extension Arm with the Spring Arm

**Warning**
Disconnect power from the unit before removing the extension arm with the spring arm.

After you have removed the light head, it may also be necessary to remove the extension arm with the spring arm for maintenance. Perform the following steps to do so.

1. Remove the light head from the spring arm as specified in the “Removing the Light Head” procedure.
2. Un screw the Phillips-head screw.
3. Remove the plug from the bottom of the down tube.
4. Unseat the suspension.
5. Remove the C-clip/retaining ring and keyed washer.

**Warning**
Be careful when removing the C-clip/retaining ring, since it helps keep the extension arm from falling and causing serious injuries.

6. Remove the extension arm with the spring arm off of the down tube.

**Note:** After removing and servicing the extension arm with the spring arm, you can either reattach it to the down tube according to the “Installing the Extension Arm with the Spring Arm” procedure in this manual or, if desired, remove the down tube assembly according to the following procedure.
6.11 Removing the Down Tube Assembly

**Warning**

Disconnect power from the unit before removing the down tube assembly.

After you have removed the extension arm with the spring arm, it may also be necessary to remove the down tube assembly for maintenance. Perform the following steps to do so (refer to Figures 4, 5, and 6 as needed).

1. Loosen the three set screws in the ceiling cover.
2. Unground the ceiling plate.
3. Unscrew the four nuts and remove the four flat washers and four spring washers.
4. Remove the down tube assembly from the ceiling structure.

Note: After removing and servicing the down tube assembly, you can reattach it to the ceiling structure according to the “Installing the Down Tube Assembly” procedure in this manual.

6.12 Lubricating the Keeper Clip

Perform the following steps to lubricate the keeper clip.

1. Remove the light head according to the “Removing the Light Head” procedure.
2. Check the thickness of the keeper clip.
3. If the keeper clip is less than 1.5 mm thick, replace it.
4. Grease both the keeper clip and the pin of the light head.
5. Reattach the light head according to the “Attaching the Light Head” procedure.

6.13 Adjusting the Spring Force

Springs are subject to natural wear and may need to be adjusted over time (i.e., whenever the light assembly drifts from the desired position). Perform the following steps to adjust the spring arm force:

1. Remove the elbow cap as shown to the right.
2. Pull the light head down 20° to expose the spring adjustment hole and screw in the elbow.

3. Insert a flathead screwdriver into the spring adjustment hole (indicated in the picture to the right), then let go of the spring arm.

4. If the arm drops, turn the adjusting screw counter-clockwise to increase the spring force.

5. If the arm rises, turn the adjusting screw clockwise to decrease the spring force.
7. Troubleshooting

7.1 Light Does Not Function

<table>
<thead>
<tr>
<th>Possible Cause</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power switched off</td>
<td>Make sure the power switch is in the ON position</td>
</tr>
<tr>
<td>Halogen bulb needs to be replaced</td>
<td>Replace the light’s halogen bulb</td>
</tr>
<tr>
<td>Loose connections</td>
<td>Check all terminal connections in the light fixture</td>
</tr>
</tbody>
</table>

Note

If any of these issues cannot be resolved, please contact Technical Support or your Stryker representative.

Figure 13 - Electrical Block Diagram
8. Technical Specifications

8.1 Environmental Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Humidity</td>
<td>30%-75%</td>
</tr>
<tr>
<td>Storage Humidity</td>
<td>10%-75%</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>10–40 °C</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>10–40 °C</td>
</tr>
</tbody>
</table>

8.2 Electrical Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated Input Voltage</td>
<td>115 V</td>
</tr>
<tr>
<td>Nominal Frequency</td>
<td>60 Hz</td>
</tr>
<tr>
<td>Output Current at 14 V (at light)</td>
<td>4.3 A</td>
</tr>
<tr>
<td>Max Power Delivered by the 115 V Version</td>
<td>50 W</td>
</tr>
</tbody>
</table>

8.3 Lighting Data

<table>
<thead>
<tr>
<th>Specification</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Central Illumination</td>
<td>37500 Lux (3483.9 fc)</td>
</tr>
<tr>
<td>Color Rendering Index</td>
<td>92</td>
</tr>
<tr>
<td>Color Temperature</td>
<td>3978 K</td>
</tr>
<tr>
<td>Light Field Diameter</td>
<td>150 mm (6 in)</td>
</tr>
<tr>
<td>Total Irradiance</td>
<td>271 W/m2 (0.034 hp/ft²)</td>
</tr>
</tbody>
</table>

8.4 Physical Data

<table>
<thead>
<tr>
<th>Specification</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Light Head Weight</td>
<td>6.6 lbs / 3 kg</td>
</tr>
<tr>
<td>Spring Arm Max Load</td>
<td>6.6 lbs / 3 kg</td>
</tr>
<tr>
<td>Suspension Arm Lengths</td>
<td>Extension Arm: 800 mm, Spring Arm: 720 mm</td>
</tr>
<tr>
<td>Available Down Tube Lengths</td>
<td>220 mm, 268 mm, 375 mm, 450 mm, 530 mm, 680 mm, 800 mm</td>
</tr>
</tbody>
</table>
9. Maintenance

⚠️ Warning
Tests and maintenance must be performed by trained technicians.

The VISUM® light must be inspected twice a year to determine whether any of the following are present:

- Damage to paint
- Cracks on plastic parts
- Deformation of the system

The VISUM® light must be inspected once a year to check for the following:

- Connections and markings
- Loose parts
- Keeper clip
- Fully seated C-clips

⚠️ Caution
Use only Stryker-provided parts.

👉 Note: Service schedules, circuit diagrams, spare parts lists, descriptions, adjustment instructions, and other documents can be made available if desired.

In case of any faults or damage, or for service, contact Stryker Communications.
10. Product Disposal

The device must be disposed of according to local laws and hospital practices. The device does not contain any hazardous materials.

11. Damage Claims

Shipping is FOB Origin. Title transfers to customer upon shipment. Stryker assumes responsibility for loss or damage during shipping. Please contact Technical Support (866) 841-5663 or your Stryker representative if your shipment is lost or damaged.

If you need to return any item, contact Customer Service for an RMA number. After receiving an RMA number, package the item as described by Customer Service. Ship the item to the following address:

Stryker Communications
(RMA#____)
571 Silveron Blvd.
Flower Mound, TX 75028
Toll Free: (877) 789-8106

12. Stryker Limited Warranty

This warranty applies to customers in the United States only. Outside of the USA, contact your Stryker sales representative or your local Stryker subsidiary.

Stryker warrants that its products shall be free of defects of material and workmanship for a period of two years after date of shipment. Stryker will provide all parts and service required to restore equipment under warranty to good working condition, which may include shipment of replacement parts and phone service consultation to conduct minor repairs.

Any modifications to this warranty policy are not valid unless made with explicit written approval of Stryker.

This warranty covers all Stryker products with the exception of bulbs, sterilizable handles, filters and any other disposable parts.

This warranty does not cover any cosmetic or superficial damage to product. Any modification to product by Customer without the approval of Stryker will immediately void this warranty in its entirety.

This warranty covers only Stryker products and only such products that were installed or, if necessary, reinstalled by Stryker personnel.

This warranty is valid only to the original purchaser of Stryker products directly from a Stryker authorized agent. The warranty cannot be transferred or assigned by the original purchaser.
13. Contact Information

Contact Stryker Customer Service with questions or concerns.

Stryker Communications
571 Silveron Blvd.
Flower, Mound, TX 75028
Toll Free: (866) 841-5663
1-972-410-7100

For international service locations, refer to the Stryker website at the following URL: