INSTRUCTIONS FOR USE

A-dec LED Dental Light

Models 570L — 577L
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Intended Application and Use

A dental operating light is intended to illuminate the oral structures and operating areas of dental patients during treatment by licensed health care professionals.

Regulatory Information

The Regulatory Information and Specifications document is delivered with A-dec dental device equipment as mandated by agency requirements. If you need this information, please go to the Document Library at www.a-dec.com.

Product Service

For product service information, please contact your local authorized A-dec dealer.

Model Number Descriptions

<table>
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<tr>
<th>Model Number</th>
<th>A-dec LED Dental Light Description</th>
</tr>
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<tr>
<td>570L</td>
<td>Retrofit Light Head</td>
</tr>
<tr>
<td>571L</td>
<td>Support-Side Mounted</td>
</tr>
<tr>
<td>572L</td>
<td>Radius®-Style Mounted</td>
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<tr>
<td>574L</td>
<td>Cabinet Mounted</td>
</tr>
<tr>
<td>575L</td>
<td>Wall Mounted</td>
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<tr>
<td>576L</td>
<td>Ceiling Mounted</td>
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<tr>
<td>577L</td>
<td>Track Mounted</td>
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The A-dec LED dental light can be operated with the controls located on the light or on an A-dec touchpad.

**Power Button**

To turn the light on or off, press the power button located at the bottom of the switch housing. To eliminate a potential touch surface, use the back of your hand. If the light does not turn on, verify that the delivery system or chair power is on.

**Mode Button**

Use the mode button to choose from four intensity levels: low, medium, high, and the cure-safe setting. The illuminated indicator shows the selected mode. The dental light retains the selected mode unless the entire system is turned off, which resets the light to medium intensity.
**Touchpad Controls**

**Dental Light Button ((LED)**

From the touchpad:
- To turn the light on, press and release (LED).
- To turn the light off, press and briefly hold (LED).
- To choose the intensity mode, press and release (LED) until you find the desired mode. When the light is in cure-safe mode, the indicator light on the touchpad flashes.

**Dental Light Auto On/Off Feature**

The light turns on automatically when the chair back reaches a preset treatment position. The light turns off when you press or . If you press again, the chair returns to its previous position, and the light will turn back on.

To disable the auto on/off feature, press and hold and (or and ) at the same time for three seconds. One beep indicates that the auto on/off function is off. To re-enable, repeat this step. Three beeps indicate that the auto on/off feature is activated.

**Note** Earlier model A-dec touchpads feature different buttons. For more information, please see the Instructions For Use that came with your delivery system.

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**Standard Touchpad**

- **Indicator Light**
- **Dental Light Button**
- **Program Button**
- **Entry/Exit**
- **X-ray/Rinse**
- **Treatment 1**
- **Treatment 2**

**Other Touchpad Examples**

Note: Touchpad symbols are proprietary to A-dec Inc.
Lighting

Three axes of rotation provide a wide range of motion. Use this capability to position the light for a clear view of tooth surfaces and minimal interference with other equipment and the dental team.

(For instructions on how to adjust the forward tilt tension, see page 8.)

Cure-Safe Mode

The A-dec LED dental light cure-safe mode provides effective illumination while preventing the premature curing of photo-initiated composites, sealants, and adhesives. This mode uses a medium intensity light setting and a non-reactive wavelength of light.

Focal Range

The dental light focus is set for optimum illumination between 16 – 30 inches (400 mm – 750 mm) from the oral cavity. This is a fixed focal range that cannot be adjusted.

Range of Motion
Circuit Breaker Location

Under abnormal conditions, the circuit breaker interrupts the flow of electricity. If the circuit breaker trips, reset it by pushing the circuit breaker button on the power supply. The power supply is typically located in the utilities area of your dental chair (see the table below for the circuit breaker location). For non-chair based A-dec LED lights, use the operatory circuit breaker.

<table>
<thead>
<tr>
<th>Chair Model</th>
<th>Power Supply Location</th>
<th>Circuit Breaker Button Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-dec 511 chair</td>
<td>Chair motor pump area</td>
<td>CB4</td>
</tr>
<tr>
<td>A-dec 311 chair</td>
<td>Chair motor pump area</td>
<td>CB5</td>
</tr>
<tr>
<td>Cascade®, Decade®, Performer®, and early model A-dec chairs</td>
<td>Utility floor box</td>
<td>CB1</td>
</tr>
</tbody>
</table>
CARE AND MAINTENANCE

Touch And Transfer Surfaces

Touch surfaces are those areas that come into contact with hands and become potential cross-contamination points during dental procedures.

Transfer surfaces are those surfaces that are contaminated by contact with instruments and other inanimate objects.

A-dec recommends barrier protection for all applicable touch and transfer surfaces. When used, barriers must be produced under Good Manufacturing Practices (GMP) for protection. Refer to your national regulatory authorities for barrier recommendations specific to your location. Make sure to discard barrier plastics after each use.

For recommendations on cleaning and chemical disinfection of touch and transfer surfaces (where barrier protection is not applicable or when barriers are compromised), please see the A-dec Equipment Asepsis Guide (p/n 85.0696.00) included with your equipment.
Dental Light Barriers

**Light Shield**
A-dec recommends barriers to protect the dental light shield during procedures. Use only non-adhesive, optically-correct barrier film that does not alter the light quality. If you do not use a barrier, carefully clean the light shield *in place* using a soft cotton cloth with non-abrasive soap and water.

Do not remove the shield unless absolutely necessary. The shield is fitted with a gasket to keep dust and debris from entering the lens assembly. If liquid or dirt should bypass the gasket, the shield may be removed for cleaning.

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**CAUTION** Only remove the shield if absolutely necessary. Use a flat-blade tool that won’t damage the light housing. After removing the shield, do not touch or attempt to clean the multi-lens assembly or you may damage the components.

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**Light Handles**
Use barriers on the light handles to prevent cross contamination. The handles are shaped to easily accept the same disposable plastic sleeves designed for the air/water syringe.

**Mode and Power Buttons**
Use one piece of barrier film to cover the mode and power buttons.
Forward Tilt Adjustment

If the forward tilt motion of the light head is too tight or too loose, adjust the tension screw to improve the ease of movement. Using a 7/64" hex key, turn the screw clockwise to increase tension or counterclockwise to decrease tension.

**NOTE** Other tension adjustments require the removal of specific components. Please contact your authorized A-dec dealer if the light requires additional adjustments.

Dental Light Maintenance Parts

<table>
<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lens Shield and Gasket, LED</td>
<td>90.1343.00</td>
</tr>
</tbody>
</table>

Contact your authorized A-dec dealer for available dental light maintenance parts.
SPECIFICATIONS

Light Operation

Power: 15 watts maximum*
Focal Range: 16” – 30” (400 mm – 750 mm)
LED Type: white HB-LED, 90 CRI
Color Temperature: white 5000 Kelvin
Light Pattern: 5.7” x 3.8” at 27.6” (145 mm x 95 mm at 700 mm)
Nominal Light Intensity:
• cure-safe: 25,000 lux (2323 fc)
  0 W/m² below 480 nm, light-cured composite safe
• high: 30,000 lux (2787 fc)
• medium: 25,000 lux (2323 fc)
• low: 15,000 lux (1394 fc)
Heat Output: 24 BTU / hour

For electrical specifications, identification of symbols, and other regulatory requirements, refer to the Regulatory Information and Specifications manual (p/n 86.0221.00) included with your equipment.

NOTE Specifications are subject to change without notice. Some requirements may vary from country to country. For more information, contact your authorized A-dec dealer.

WARRANTY

A-dec warrants all products against defects in materials or workmanship for one year from time of delivery. A-dec’s sole obligation under the warranty is to provide parts for the repair, or at its option, to provide the replacement product (excluding labor). The buyer shall have no other remedy. All special, incidental, and coincidental damages are excluded. Written notice of breach of warranty must be given to A-dec within the warranty period. The warranty does not cover damage resulting from improper installation or maintenance, accident or misuse. The warranty does not cover damage resulting from the use of cleaning, disinfecting or sterilization chemicals and processes. The warranty also does not cover light bulbs. Failure to follow instructions provided in the A-dec Instructions For Use (operation and maintenance instructions) may void the warranty.

A-dec warrants A-dec dental chair cylinders, both lift and tilt for ten years from the date of purchase of the chair or the cylinder. This warranty is retroactive to A-dec chair cylinders already in the field. The warranty covers chair cylinders A-dec finds to have manufacturing irregularities. Stool cylinders are covered under A-dec’s one-year warranty. No other warranties as to merchantability or otherwise are made. For service information, contact your local authorized A-dec dealer. Check with local codes and the Americans with Disabilities Act (ADA) requirements for installation of this product.

CAUTION U.S. Federal law restricts this device to sale by or on the order of a dentist, physician, or any other practitioner licensed by the law of the state in which he or she practices to use or order the use of this device.