INSTRUCTIONS FOR USE

A-dec 500 LED

DENTAL LIGHT

A-dec
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Regulatory Information and Warranty
For required regulatory information and the A-dec warranty, see the Regulatory Information, Specifications, and Warranty document (p/n 86.0221.00) available in the Resource Center at www.a-dec.com.

Product Service
Product service is available through your local authorized A-dec dealer. To locate an authorized dealer, or for additional service information, visit www.a-dec.com or contact A-dec at 1.800.547.1883 in the USA and Canada or 1.503.538.7478 worldwide.

Product Models and Versions Covered in This Document

<table>
<thead>
<tr>
<th>Model</th>
<th>Version</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>570L</td>
<td>A</td>
<td>Retrofit Light Head</td>
</tr>
<tr>
<td>571L</td>
<td>A</td>
<td>Support-Side Mounted</td>
</tr>
<tr>
<td>572L</td>
<td>A</td>
<td>Radius® Mounted</td>
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<td>573L</td>
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<td>574L</td>
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<td>575L</td>
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<td>Track Mounted</td>
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<tr>
<td>578L</td>
<td>A</td>
<td>Simulator and Bench Mounted</td>
</tr>
</tbody>
</table>
Operate/Adjust

Operate the Dental Light with Manual Controls

You can use the controls located on the light or on an A-dec touchpad to operate the dental light.

Touchless On/Off Sensor

Move your hand within 3" (76 mm) below the sensor to turn the light on or off.

**NOTE** Black gloves may impact the sensor’s ability to activate the dental light. If you are using white or light-colored gloves and the light still 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.
Operate the Dental Light with Touchpad Controls

Turn On/Turn Off the Dental Light and Change the Intensity

From the touchpad:
- Press l to turn on the light.
- Repeatedly press and release l to toggle between light intensity modes. The light indicator flashes continuously in cure-safe mode.
- Press and hold l to turn off the light.

Set the Dental Light Auto On/Off Function

When you press \( \leftarrow \) or \( \rightarrow \) on the touchpad, the dental light automatically turns on once chair motion stops. The light turns off when you press \( \rightarrow \) or \( \leftarrow \).

Press and hold \( \uparrow \) and l at the same time to disable or enable the auto on/off function.
- One beep indicates this function is off.
- Three beeps indicate this function is on.

IMPORTANT Standard touchpad shown. For other touchpads, see your delivery system Instructions for Use.

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

**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 – 750 mm) from the oral cavity. This is a fixed focal range that cannot be adjusted.

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.

**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.
**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>CB1, CB4, CB5</td>
</tr>
<tr>
<td>A-dec 311 and A-dec 411 chair</td>
<td>Chair motor pump area</td>
<td>CB4, CB5</td>
</tr>
<tr>
<td>A-dec 200, Cascade®, Decade®, Performer®, and early model A-dec chairs</td>
<td>Utility floor box</td>
<td>CB1</td>
</tr>
</tbody>
</table>
Protect with Barriers

A-dec recommends barrier protection for all applicable touch and transfer surfaces. Touch surfaces are areas that come into contact with hands and become potential cross-contamination points during dental procedures. Transfer surfaces are areas that come into contact with instruments and other inanimate objects.

In the USA, barriers must be produced under the Current Good Manufacturing Practice (CGMP) as specified by the U.S. Food and Drug Administration (USFDA). For regions outside the USA, refer to the medical device regulations specific to your location.

**NOTE** For proper use and disposal of barriers, see the barrier manufacturer’s Instructions for Use.

**IMPORTANT** 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).
Dental Light Barriers

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.

Light Shield

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

Barriers help protect and keep the dental light shield clean during procedures. Use only optically-correct barrier film that does not alter the light quality. A-dec recommends the SafeShield™ disposable barrier by Medicom® (see page 8 for ordering information).

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.

Mode Button
Use one piece of barrier film to cover the mode button.
## Dental Light Maintenance Parts

<table>
<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Medicom SafeShield Disposable Barrier</td>
<td>9565</td>
</tr>
<tr>
<td>(package of 10)</td>
<td></td>
</tr>
<tr>
<td>LED Lens Shield and Gasket</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: 22 watts maximum
Focal Range: 16 – 30" (400 – 750 mm)
LED Type: white HB-LED, 94 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 mode: 23,000 lux (2137 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: 77 BTU/hour

IMPORTANT For electrical and utility specifications, identification of symbols, and other regulatory requirements, see the Regulatory Information, Specifications, and Warranty document (p/n 86.0221.00) available in the Resource Center at www.a-dec.com.

NOTE Specifications are subject to change without notice. Requirements may vary depending on your location. For more information, contact your authorized A-dec dealer.