



Instructions for Use

A-dec LED Dental Light

Models 570L - 578L

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Regulatory Information

Regulatory information mandated by agency requirements is provided in the *Regulatory Information, Specifications, and Warranty* document (p/n 86.0221.00), which is available in the Document Library at www.a-dec.com.

Product Service

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

Model Number Descriptions

Model Number	A-dec LED Dental Light Description
570L	Retrofit Light Head
571L	Support-Side Mounted
572L	Radius®-Style Mounted
573L	Post Mounted
574L	Cabinet Mounted
575L	Wall Mounted
576L	Ceiling Mounted
577L	Track Mounted
578L	Simulator Mounted and Bench Mounted

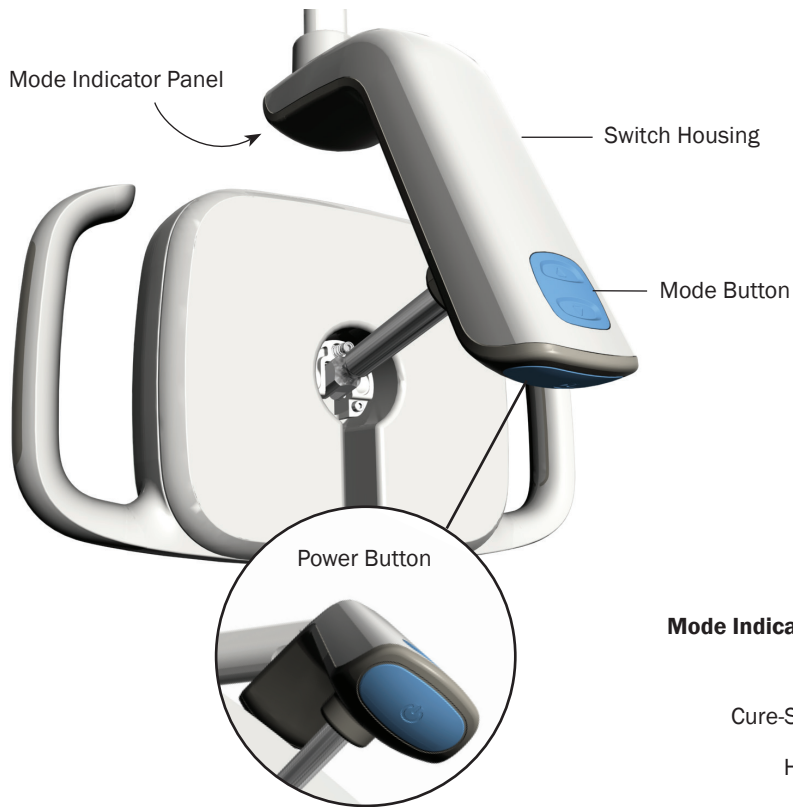
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Operate / Adjust

Manual Controls



The A-dec LED dental light can be operated with the controls located on the light or on an A-dec touchpad.

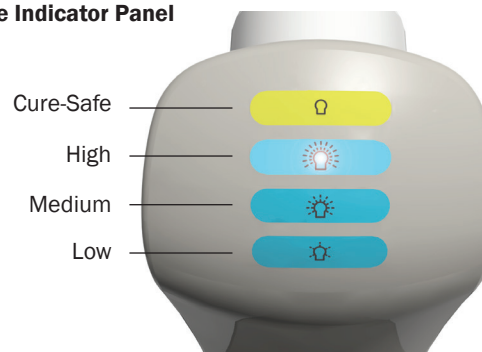
Power Button

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

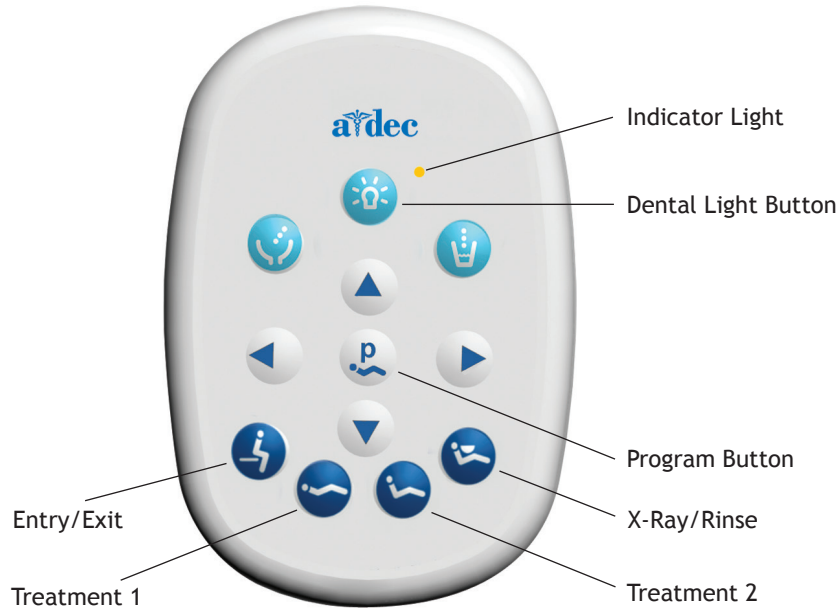
Use the mode button to choose from four intensity levels: low, medium, high, and the cure-safe setting. The illuminated indicator shows the selected mode. The dental light retains the selected mode unless the entire system is turned off, which resets the light to medium intensity.

Mode Indicator Panel



Touchpad Controls

Standard Touchpad



Dental Light Button (☀️)

From the touchpad:

- To turn the light on, press and release ☀️.
- To turn the light off, press and briefly hold ☀️.
- To choose the intensity mode, press and release ☀️ 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 🔄 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.

Other Touchpad Examples



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



IMPORTANT Earlier model A-dec touchpads feature different buttons. For more information, please see your delivery system *Instructions for Use*.

Lighting



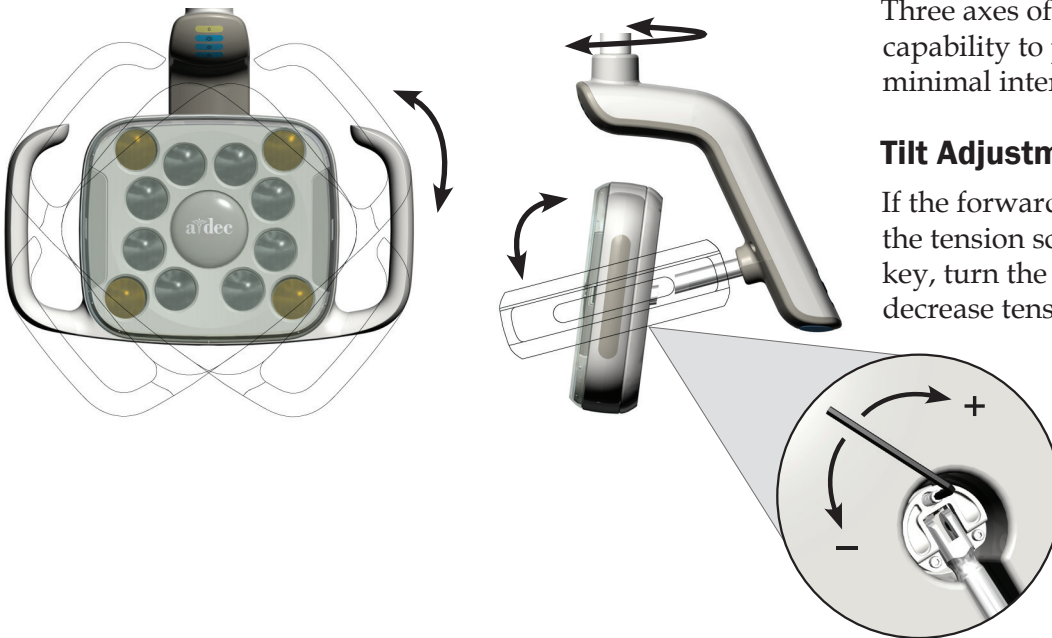
Cure-Safe Mode

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



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.

Tilt Adjustment

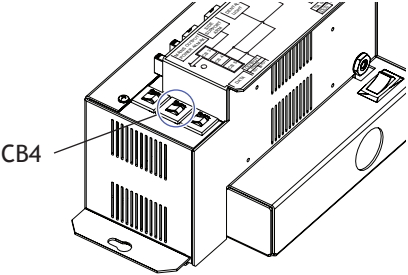
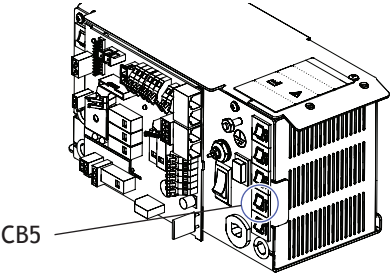
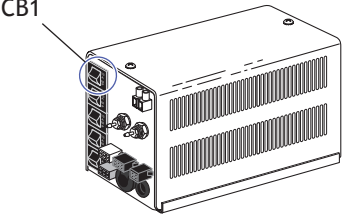
If the forward tilt motion of the light head is too tight or too loose, adjust the tension screw to improve the ease of movement. Using a 7/64" hex key, turn the screw clockwise to increase tension or counterclockwise to decrease tension.



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

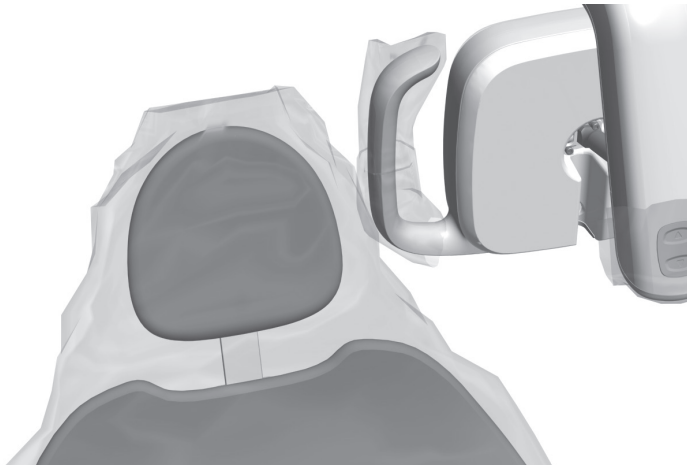
Circuit Breaker Location

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.

Chair Model	Power Supply Location	Circuit Breaker Button Location
A-dec 511 chair	Chair motor pump area	
A-dec 311 and A-dec 411 chair	Chair motor pump area	
A-dec 200, Cascade®, Decade®, Performer®, and early model A-dec chairs	Utility floor box	

Clean / Maintain

Barrier Protection



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.



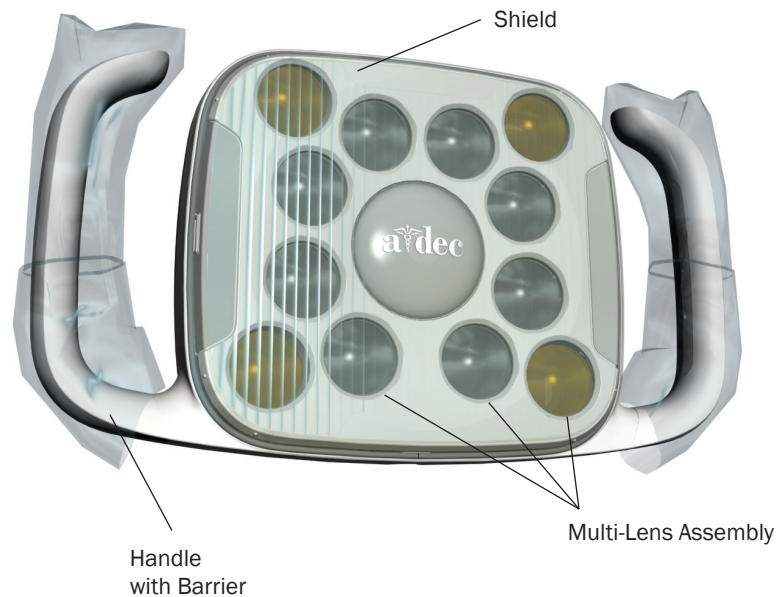
IMPORTANT For recommendations on cleaning and chemical disinfection of touch and transfer surfaces (where barrier protection is not applicable or when barriers are compromised), please see the *A-dec Equipment Asepsis Guide* (p/n 85.0696.00) included with your equipment.



DANGER If you use barriers, always replace the barrier film after each patient.



Dental Light Barriers



Light Shield

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.

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.



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.

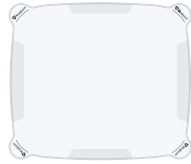

Light Handles

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.

Dental Light Maintenance Parts

Description	Part Number	
Medicom® SafeShield™ Disposable Barrier <i>(package of 10)</i>	9565	
LED Lens Shield and Gasket	90.1343.00	

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 mode:	25,000 lux (2323 fc) 0 W/m ² 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



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

Warranty

Warranty information is provided in the *Regulatory Information, Specifications, and Warranty* document (p/n 86.0221.00), which is available in the Document Library 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.



A-dec Headquarters

2601 Crestview Drive
Newberg, Oregon 97132
United States
Tel: 1.800.547.1883 within USA/CAN
Tel: +1.503.538.7478 outside USA/CAN
Fax: 1.503.538.0276
www.a-dec.com

A-dec Australia

Unit 8
5-9 Ricketty Street
Mascot, NSW 2020
Australia
Tel: 1.800.225.010 within AUS
Tel: +61.(0).2.8332.4000 outside AUS

A-dec China

A-dec (Hangzhou) Dental Equipment Co., Ltd.
528 Shunfeng Road
Qianjiang Economic Development Zone
Hangzhou 311106
Zhejiang, China
Tel: +1.503.538.7478

A-dec United Kingdom

EU Authorized Representative
Austin House, 11 Liberty Way
Nuneaton, Warwickshire CV11 6RZ
England
Tel: 0800.ADEC.UK (2332.85) within UK
Tel: +44.(0).24.7635.0901 outside UK



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