

**A-dec LED DENTAL LIGHT**

The **A-dec LED®** Dental Light is an L.E.D. (Light-Emitting Diode) light. The Light Emitting Diode Light has three intensity settings of 15,000, 25,000 and 30,000 lux and purportedly stays at a consistent 5,000K claiming to give providers a balanced, clean, white light. The light is said to have a “stadium” effect uniformed light pattern to help minimize shadowing and the feathered edge is supposed to reduce eye fatigue. A-dec uses 12 LEDs that supposedly have a life expectancy of 20 years and consume 80% less power than halogen lights. The LED Light claims to glide effortlessly into position and has unlimited positioning with three axes and 540° of rotation. The light offers a cure-safe mode at 25,000 lux that is said to allow the dental team to work effectively without curing photo-initiated resins. The LED Light is equipped to be run off a 100-240 VAC range at 50 or 60 Hz power supply. As such, the **LED** Light was evaluated to provide our customers with updated product information.



**Manufacturer:**

A-dec Headquarters  
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 Newberg, OR 97132  
 (800) 547-1883,  
 (503) 538-0276 FAX, or  
 www.us.a-dec.com

**Suggested Retail and Government Price:**

<b>PN 571L/572L</b>	<b>Unit/ Chair Mounted Light</b>	<b>Retail: \$3930.00</b>	<b>Govt. Price: \$1947.75</b>
<b>PN 576L</b>	<b>Ceiling Mounted Light</b>	<b>Retail: \$4605.00</b>	<b>Govt. Price: \$2281.65</b>
<b>PN 575L</b>	<b>Wall Mounted Light</b>	<b>Retail: \$4605.00</b>	<b>Govt. Price: \$2281.65</b>
<b>PN 574L</b>	<b>Cabinet Mounted Light</b>	<b>Retail: \$4605.00</b>	<b>Govt. Price: \$2281.65</b>
<b>PN 577L</b>	<b>Track Mounted 8' - 12'</b>	<b>Retail: \$5055.00</b>	<b>Govt. Price: \$2504.25</b>
<b>28.1924.00</b>	<b>LED Light Head Retrofit, White</b>	<b>Retail: \$2570.00</b>	<b>Govt. Price: \$1272.00</b>
<b>28.1925.00</b>	<b>LED Light Head Retrofit, Surf</b>	<b>Retail: \$2570.00</b>	<b>Govt. Price: \$1272.00</b>

**ADVANTAGES:**

- + Uses 80% less power than Halogen bulbs producing a cost savings benefit by utilizing Light Emitting Diodes (L.E.D.)
- + Provides outstanding illumination for dental procedures
- + L.E.D. will last longer than standard bulbs requiring less maintenance and replacement
- + Very consistent and uniform light pattern
- + Converting existing light with retrofit kit was easy
- + No special power requirements
- + Emits little to no-heat during procedures
- + Light is easy to clean, smooth surfaces
- + Unlimited positioning at 540° of rotation

**DISADVANTAGES:**

- Retrofit kit only works on A-dec lights manufactured after 1993, not compatible with other manufacturer’s lights.



## **SUMMARY AND CONCLUSIONS:**

The A-dec **LED** dental light provides an adequate light source for illuminating the oral cavity during dental procedures. The light met electrical safety requirements as well as international standards. Clinical evaluators appreciated the light's focused area of illumination and the ability to use the light settings that did not adversely affect the setting of composite dental materials. The A-dec LED light is available in multiple configurations making it easy to mount to multiple applications. The majority of the evaluators rated the A-dec LED light as Outstanding and recommended its purchase. The **A-dec** LED light is rated **Outstanding** for use by the USAF dental facilities.