

A-dec® 500 LED Light



a[®]dec

Premium brilliance.

Everything about the premium A-dec 500 LED is designed to create optimal working conditions, like continuous light that floods the oral cavity reducing shadows and eye fatigue. A cure safe mode that gives you more time to work with composites. And a complete spectrum of colors that appear precisely as nature intended. Brilliant.



Backed by a 10-year warranty.

The difference is in the details.



PURE INNOVATION

Clean, distinctive form. Intuitive functionality. Smart use of materials. The unmatched luminance and lasting durability has earned the A-dec 500 multiple awards since its introduction.



CLEAN AND SIMPLE

Touchless sensor for on/off activation combines with touchpad control and auto on-off using chair presets to maximize light activation options while simplifying asepsis protocols and minimizing touchpoints. Easier to clean and fewer barriers needed.



UNPARALLELED TESTING

“Good enough” just isn’t. A-dec designs and tests our lights for a 20-year life. So the light always works when you need it.

A-dec LED

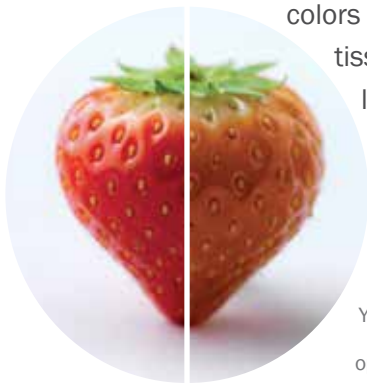
What color is natural?

Seeing colors as nature intended means an accurate representation and mix of the entire color spectrum. With true-to-life tones, a clear diagnosis is that much easier.

Solid performance. A-dec lights begin with proven parts, optically engineered specifically for dentists in their environment. A-dec LED lights are backed by a five-year warranty, but designed for a 20-year life.

Easy on the eyes. Innovative light distribution creates a uniform pattern with a “stadium” effect to minimize shadowing, and feathered edge light pattern that reduces eye fatigue.

Exceptional illumination. A high color rendering index (CRI) of 94 mimics sunlight’s clarity and floods the oral cavity with light that reflects colors accurately for soft and hard tissue diagnosis. This high-quality light pattern conforms to the latest ISO9680 standards for brightness, color, rendering and uniformity.



High CRI

Low CRI

You can see the difference when compared to less refined LED operator lights with a lower color rendering index (CRI).





Low power. No noise. No noise is good noise. The A-dec 500 uses a unique passive cooling method so there's no fan, and no radiant heat.

Ecologically and economically smart. The A-dec 500 LED light consumes 75% less power, and is more than 20% brighter than most halogen lights. Low heat and free of toxic chemicals, it produces little infrared light and close to no UV emissions. And, with a life expectancy of 40,000 hours, you'll never have to change a bulb.

Perfect white light. Neutral is everything. The color of light, measured in Kelvins, affects everything you do as a doctor. Consistent 5,000K illumination produces a balanced clean, white light that replicates natural sunlight.

A vertical color gradient bar representing the Kelvin color temperature scale. It transitions from dark blue at the top to red at the bottom, passing through light blue, white, and yellow. Text labels are placed to the left of the bar at specific intervals.

8,000K
7,500K
7,000K — Daylight with Clouds
6,500K
6,000K
5,500K — Direct Sun
5,000K — Neutral White Light
4,500K
4,000K
3,500K
3,000K
2,500K — Incandescent Bulb
2,000K
1,500K — Candlelight



A-dec 500 LED

There's a reason the A-dec 500 LED light has won awards year after year. (In fact, there are many of them.) Suffice to say, the precise positioning and premium feature set empowers you and your team to sit comfortably, see clearly, and diagnose accurately, day after day.

A-dec 500 LED Light		
Feature	Description	Why it's important
Stadium lighting	8 bright white LEDs	Reduces shadowing
Light intensity (four modes)	Low: 15,000 lux (1394 fc) Medium: 25,000 lux (2323 fc) High: 30,000 lux (2787 fc) Cure-safe: 23,000 lux (2137 fc)	Enough light to do the job right
Thermal output	77 BTUs (halogen averages 325 BTUs)	No radiant heat
Composite mode	Cure-safe illumination provides brilliant yellow light at 23,000 lux (2137 fc)	Illuminates without curing photo-initiated resins
Color temperature	5,000K	Produces balanced light for accurate tissue analysis
Light pattern	3.8" x 5.7" at 27.6" focal distance (95 mm x 145 mm at 700 mm)	Lights oral cavity, not patient's eyes
Feathered edge	Yes	Reduces eye fatigue
Lifespan	40,000 hours (~20 years)	Never change a bulb
Rotational axes	3-axis: horizontal, vertical, diagonal	Choose optimal ergonomic positioning
Control inputs	Touchless on/off sensor, control pad/touchscreen, and auto on/off using chair presets	Flexible control and simplified asepsis
Compatibility	A-dec 500, A-dec 400, A-dec 300	Select the option that works with your equipment



A-dec LEDs provide uninterrupted performance for 20 years, while consuming 75-85% less energy than halogen technology.

See the advantages.



TOUCHLESS EASY ON/OFF

Touchless design supports easy on/off within 3" (76mm).



TOUCHSCREEN CONTROLLED

Programmable buttons automatically turn light on when the chair back reclines, and powers it off when the chair moves to entry/exit position (*requires A-dec user interface*).



CURE SAFE

Cure safe setting at 23,000 lux removes all blue light for full illumination while working with cure-set products.



UNLIMITED POSITIONING

540° of horizontal rotation mean that you can rotate the light 1½ times in either direction. Combine that with 120° head tilt and 80° diagonal adjustment, and perfect placement is a sure thing.



Light Options

What works for you? Choose a mounting option that maximizes your working style.

All options may not be available.
Check with your dealer for availability.



Track mount



Ceiling mount



Chair mount



Wall/cabinet mount



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