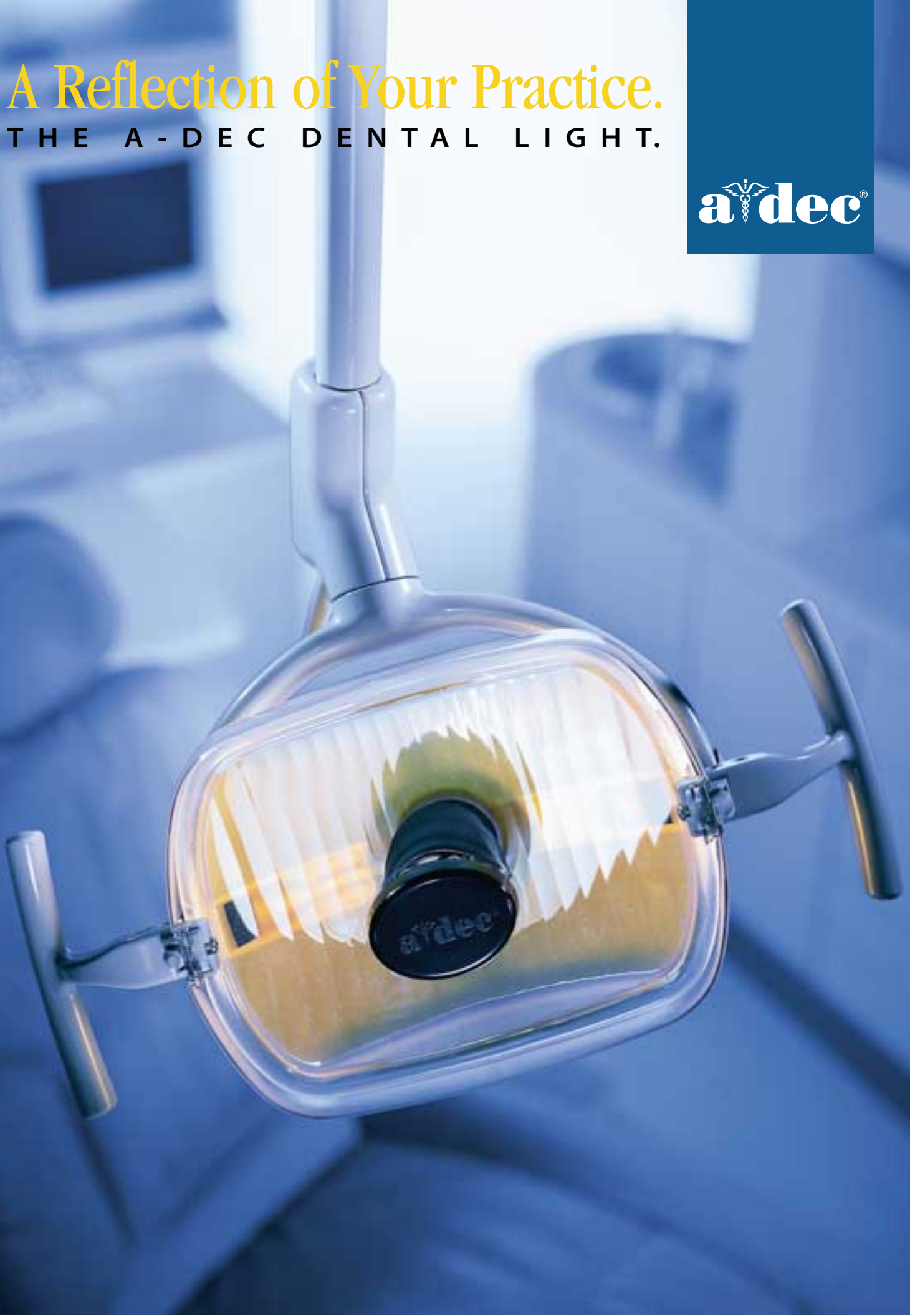


A Reflection of Your Practice.

THE A-DEC DENTAL LIGHT.

 **a dec**[®]



Durable

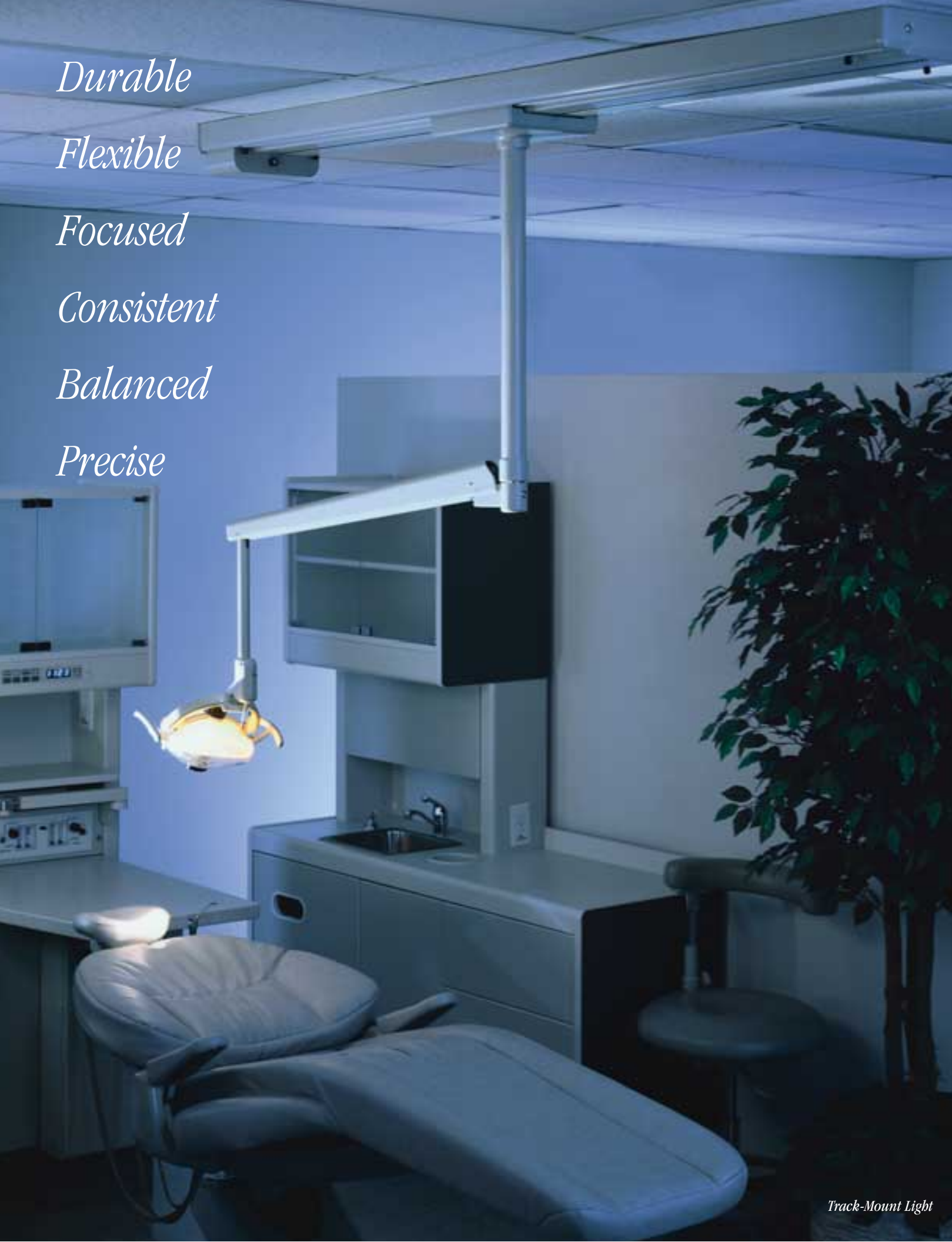
Flexible

Focused

Consistent

Balanced

Precise



Track-Mount Light



Post-Mount Light



Wall-Mount Light

A Balanced Lighting Environment Begins With A Quality Dental Light.

A-DEC LIGHT FEATURES AND BENEFITS

- THIRD AXIS OF ROTATION
- SMOOTH POSITIONING
- BALANCED LIGHT PATTERN
- THREE LIGHT INTENSITIES
- EASY FOCUS ADJUSTMENT
- SIMPLE BULB REPLACEMENT

QUALITY ILLUMINATION

Multiple factors influence the balance of light in your dental operatory. Change one factor, and you can actually change the entire lighting environment. That's why it's important to consider all of the issues surrounding operatory lighting. As a start, we suggest focusing on the primary source of light for illuminating the oral cavity: the dental light.

A-dec engineers spend a considerable amount of time researching ergonomics and creating equipment that's easy to position. With the A-dec light, for instance, we use a combination of smooth, oil-impregnated bushings, built-in tension adjustments, and our proven counter-balanced flex arm. The result is smooth, fluid motion and drift-free performance.

For more precise positioning, the A-dec light offers you a third axis of rotation. With this diagonal axis, you can avoid difficult head and neck positions while placing the light right where you need it. At the same time, you'll have an unobstructed, clearly focused light pattern that follows the orientation of the oral cavity, yet stays out of the patient's eyes.

The A-dec dental light is also optically designed to provide you with a number of benefits, including balanced intensity across the light pattern for proper contrast and a clear view of tooth surfaces; a neutral color temperature for consistent shade selection, color matching, and tissue analysis; as well as three intensity settings that allow you to easily compensate for various ambient light conditions.

Since your patients see the dental light more than any other piece of equipment, quality construction is just as important. That's why, when creating A-dec dental lights, we use the latest in manufacturing technology to maintain very tight tolerances. Your patients will notice the durable fit and finish, which is designed to reflect the quality of your practice for years to come.



◀ *With smooth rotation and a third axis, you can easily position the A-dec dental light where you want it and still maintain an unobstructed light pattern that follows the orientation of the oral cavity, yet stays out of the patient's eyes.*

A-dec Dental Light Features And Mounting Choices.



Third Axis Of Rotation

With a third axis of rotation (diagonal), you can position the dental light away from the work area and still maintain a focused light pattern that follows the orientation of the oral cavity.



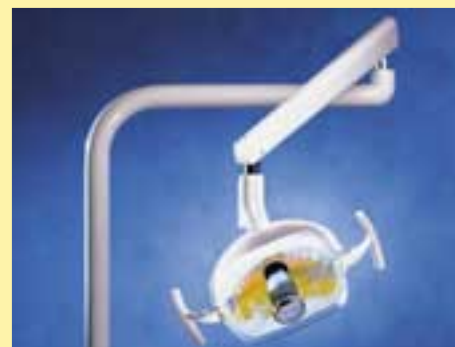
Convenient Switches

An extra-large on/off switch lets you activate the light with the back of your hand, eliminating a touch surface. The intensity switch is conveniently located above the on/off switch.



Simple Adjustments

Built-in tensioning points and a large focus adjustment screw on the back of the reflector allow you to quickly adjust the light to your specific preferences.



Unit-Mount Light



Preference®-Mount Light



Ceiling-Mount Light

CHAIR-MOUNT LIGHTS

Since chair-mounted dental lights integrate with the chair or post box, they cost less, require less repositioning, and are a great option for smaller operatories. A-dec offers three different choices of chair-mount lights: Unit-, Post-, and Radius-Mount.

WALL/CABINET-MOUNT LIGHTS

A-dec Wall- or Preference-Mount dental lights are more stable than chair-mounted lights, have fewer surfaces that require cleaning, and can be conveniently folded against the wall or above the cabinetry when not in use.

CEILING-MOUNT LIGHTS

For additional stability and less to clean, choose from A-dec's Ceiling- or Track-Mount dental light configurations. Check with your A-dec dealer for additional construction requirements.

LIGHT HEAD SPECIFICATIONS*

Bulb Type:	Quartz halogen xenon; single-ended; 24V/150W rating
Light Intensity:	High – 24,000 lux (2230 fc) Medium – 20,000 lux (1858 fc) Low – 16,000 lux (1486 fc)
Color Temperature:	5000° Kelvin
Light Pattern:	3.3" x 6.3" at 27.6" (focal distance) (85mm x 160mm at 700mm)
Operating Voltage:	100, 120, or 240V
BTUs per hour:	325



* Nominal values based upon lab tests with fixed conditions. Actual results may differ due to variations in manufacturing or operating conditions.



The Issues and Elements Of Lighting The Operator.

THE BENEFITS OF BALANCED LIGHT

- REDUCED EYE FATIGUE
- INCREASED STAMINA
- LESS DISCOMFORT FOR PATIENT AND DENTAL TEAM
- ENHANCED DEPTH PERCEPTION
- CLEARER VIEW OF TOOTH SURFACES
- BETTER CONSISTENCY FOR COLOR/SHADE MATCHING
- MORE CONSISTENT SOFT TISSUE ANALYSIS

Throughout the day, your eyes constantly compensate for different colors, intensities, and contrasts between the light in the oral cavity and the ambient light in your operatory. It's a natural process that, unfortunately, creates both mental and physical fatigue. Over time, this fatigue can impact not only your health, but also your productivity—and even the quality of your work. One way to reduce the impact is to create a balanced lighting environment.

OPERATORY LIGHT SOURCES

Dental lights, overhead lights, surrounding reflective surfaces, window coverings... there are many sources that can influence the balance of light in an operatory. To evaluate your situation, concentrate on two essential areas: the seeing task zone (oral



A number of different light sources can affect the balance of light in your operatory.

cavity) and the general or ambient light zone (entire operatory). The goal is to reduce the difference, or ratio, between these two zones so your eyes will compensate less as they move from zone to zone. Most operatory lighting research suggests that this task to ambient light ratio should not exceed 10 to 1. That way, by limiting the compensation your eyes are making, you can also reduce the fatigue you're experiencing throughout the day.

CONTRAST AND COLOR

Improper contrast can also cause eye strain. Very low contrast, for instance, creates a "flat-lit" view which removes much of your ability to clearly distinguish tooth elevations and depressions. With higher contrast, you'll instead see slight shadows that help improve depth perception and provide a clearer view of tooth topography. Several

factors in the operatory can change the light contrast in the oral cavity, including your dental light, the angle of your mirror, and secondary light sources such as fiber-optic handpieces.

Your ability to perform accurately is also influenced by color—especially during shade selection and color matching. Consider, for example, how the color of a landscape changes from midday to sunset. With fluorescent, incandescent, and natural sunlight entering the operatory, a similar effect occurs. All have very different color temperatures, and all affect the way a particular color appears.

Fortunately, the first step to balancing color, contrast, and light zone ratios in your operatory is simple—begin by focusing on your primary source for oral cavity illumination: the dental light.



▶ *Light with improper color correction and poor contrast makes it difficult to accurately match colors and distinguish tooth topography.*

▶ *Light with neutral white color temperature and proper contrast offers you more consistent color matching and a clearer view of tooth elevations and depressions.*



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For a demonstration of how A-dec's dental light can benefit your practice, contact your authorized A-dec dealer today, or call us at 1-800-547-1883 for a list of dealers in your area.