

## ***IDEAL-LUME* STANDARD INSTALLATION TIPS**



### **OBJECTIVE:**

Understanding the goal and fundamental principles of TV viewing environment lighting will guide the user in achieving the best mounting location and amount of illumination. The Society of Motion Picture and Television Engineers (SMPTE) and the International Organization for Standardization (ISO) recommendation that the level of ambient illumination should be substantially lower than the brightest white on the screen. For video monitors, SMPTE specifies less than 10%. Illumination should originate from behind the frontal plane of the screen and the light source should not directly shine in the eyes of the viewer. Typically, the illumination should be directed onto the wall or surrounding surfaces adjacent to and behind the display. Try to achieve an even light spread without hot spots or intense concentrations of light on the wall.

Surrounding surfaces should ideally be neutral in color, or as near neutral as possible, to preserve accurate color perception of the image on the screen. Neutral can be any shade of gray, or variety of shades from black to white. The standard reference for neutral used in professional display environments is from the Munsell Color Order System. Munsell Neutral Value Scale samples are available on our web site at: [www.cinemaquestinc.com](http://www.cinemaquestinc.com) . These samples can be used to match paints, stains or fabrics.

### **MOUNTING METHODS:**

***Ideal-Lume*** viewing environment luminaires can be placed on the floor or shelf behind the display, or laid on top of some TVs behind a center channel speaker. Some experimentation is usually necessary to achieve the right level of illumination and even spread of the light on the wall behind the TV. There are so many display types in use today, plus variations in installations that we are prevented from specifying exact mounting locations. Mounting the product in close proximity to interconnect cabling, or the display itself, will not cause electrical interference in the TV picture or speakers.

Velcro self-adhesive hook and loop fasteners are provided for attaching the fixture to the back of the TV cabinet or other smooth surface. The adhesive used is a special industrial grade that will withstand high temperatures. **CAUTION** may not stick reliably to some TV cabinets. Use the alcohol swabs included to clean the surfaces where the Velcro will be attached. This will insure a long-lasting bond. Special plastic mounting clips, screws and drywall anchors are included if anchoring the fixture to the wall, or the cabinetry, is a better alternative. We do not recommend drilling holes in the back of the display. Many displays do not allow for this and drill bits or screws may contact vital components inside the cabinet.

Many displays have screws along the cabinet back that can provide a method for suspending the fixture. Try backing out two widely-spaced screws a few turns. The ends of two long strings or wires can be wrapped around the screws a couple of turns. Re-tighten the screws to clamp the end of the string or wire in place. The free ends of the strings or wires can then be formed into a loop and tied at various points to vary the height of the loop. Slip the loops over the opposite ends of the fixture so that it hangs horizontally against the back of the display. Some TVs have ventilation holes that can serve as attachment points for this technique as well.

Two fixtures can be interconnected with a special 1 meter cable available from our online store. One power cord with plug will be left over in this case. Additional connecting cords and fixtures can be

ordered if more fixtures are desired for an installation.

A small adapter is also included that will allow two fixtures to be attached to each other end-to-end, for doubling the light output. One application for this method might be for very large TVs mounted in front of a dark wall. Up to ten fixtures can be connected together using the adapters and/or interconnect cables.

Be sure to mount the fixtures in a manner which allows you to reach the power switch and adjust the rotating mechanical baffle tube after mounting. Use of the clear diffuser is optional. Attach it only after adjusting the mechanical baffle for proper dimming level. Please contact us by phone or e-mail if you need additional advice: 303-740-7278 or [info@cinemaquestinc.com](mailto:info@cinemaquestinc.com).

## **DIMMING THE LIGHT:**

To adjust the amount of light on the wall, simply rotate the clear dimming baffle tube until the light is dimmed sufficiently on the wall. Less than 10% of the brightest white on the TV screen is the rule. A precise method for judging this light level is to display a backlight level test pattern on the screen from one of the popular home theater setup DVDs on the market. Two of these DVDs are available from our online store or may be available for rent from a local video rental store.

## **REMOVING THE LAMP FOR REPLACEMENT:**

**CAUTION** must be exercised when handling a T5 lamp. They are very slender and fragile. To prevent breakage whenever handling the glass tube, grasp it near the ends ONLY. Each end of the lamp has two metal pins that rotate in and out of the fixture socket as the lamp is turned. They can rotate in either direction.

The lamp can be removed by hand, if your finger strength is sufficient to compress the clear dimming baffle tube. It helps to use both hands at the same time. Grip the clear tube/lamp assembly at both ends and twist the lamp out of its socket. Twisting either direction will work.

If your fingers aren't strong enough, use standard slip-joint pliers to gently but firmly turn the lamp. Just make sure you slide the clear tube over one of the metal ends of the lamp for cushioning the plier jaws. DO NOT grip the lamp on the glass portion, just the metal end. Gripping the lamp with pliers from one end will be sufficient to turn the entire lamp.

Re-installation of the lamp is best begun by hand. It's much easier to insert the pins in the sockets correctly when you can feel as well as see the pins moving into alignment. Press downward slightly on each end of the lamp until the bottom pin clicks into the socket bottom. Then rotate the pins into horizontal alignment, either by hand or using the slip joint pliers method discussed above.

## **SWITCHING THE LIGHT ON AND OFF:**

Larger TVs may make it difficult to reach the power switch on the light. The product can be plugged into switched outlets on the back of some AV components, such as surround receivers. You may want to acquire one of the remotely controlled on/off switch solutions presented on our web site and online store: <http://www.cinemaquestinc.com/uniqueitems.htm>.