

IDEAL-LUME® PANELIGHT 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) recommend 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 . These samples can be used to match paints, stains or fabrics.

MOUNTING METHODS:

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. Try various mounting locations on the back of the TV by temporarily holding the product in place with duct tape, or equivalent, until the right position is found. Mounting the product in close proximity to interconnect cabling, or the display itself, will not cause electrical interference in the TV picture or sound.

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. Use the alcohol swabs included to clean the surfaces where the Velcro will be attached. This will promote a better bond. **CAUTION, Velcro may not stick reliably to some TV cabinets even after cleaning the surface (especially Samsungs).** Special plastic mounting clips, nylon cable ties, screws and drywall anchors are included.

The nylon cable ties can be used for suspending the fixture from vent holes in the TV cabinet or other attachment points, such as from the wall mount bracket. See the included sheet with photos of various methods.

Anchoring the fixture to the wall, or the cabinetry, may be 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.

The two fixtures can be interconnected with the special 1 meter cables included. One power cord with plug will be left over in this case. Additional connecting cords and fixtures can be ordered if more than two fixtures are desired for an installation. Two *Ideal-Lume* Panelight products can be combined to provide backlighting on all four sides of the TV. In the case of TVs larger than 50" diagonal, additional connecting cords may need to be ordered.

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 on a dark wall. Up to ten fixtures can be connected together using the adapters and/or interconnect cables. All linked fixtures must be switched independently.

Be sure to mount the fixtures in a manner which allows you to reach the power switches and adjust the rotating mechanical baffle tube after the TV is mounted. Use of the clear diffuser is strictly optional. In most installations, the best results are obtained by not using the diffuser lens. It traps heat and should not be used unless there is a need for impact protection. 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

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, or near the center with both hands. 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 and twist the lamp to guide the contact pins out of their sockets. Twisting either direction will work.

If your fingers aren't strong enough, use standard slip-joint or needle-nose 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 with pliers, just the metal end. Gripping the lamp with pliers from one end will be sufficient to turn the entire lamp. Use your other hand to grip and turn the opposite end of the lamp as you turn the pliers.

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 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.html>