



Magic Gadgets

OPTICAL INTERFACE

This device is designed for use with our dimmers. It will also trigger most dimmers with an analog input. Output at 3.5mm mini phone connector: tip minus, sleeve plus. To use the unit, secure it in a light stand, C stand, etc. Pan and tilt the unit to aim it at the light source (1). Use the aiming hole next to the led indicator to line up the light source in the aiming tube. Turn on the power switch. Turn the brightness control fully counterclockwise. Turn the background control fully clockwise. Turn the brightness control slowly clockwise until the red led just barely goes on. The interface output should follow the light source on and off indicated by the led lamp. The brightness and background controls work against each other so a little practice may be necessary to familiarize oneself with this control interaction. In general the brightness control is turned clockwise to make the unit more sensitive, i.e. for lower light levels; the background control is turned counterclockwise to make the unit less sensitive to ambient light, and also makes the response "tighter", i.e. more "snappy". If the light source is flickering, as in a fire, aim the unit at different areas of flame until the led flickers. Aiming the unit at the edge of the flames (fig. 2) instead of the center of the fire will give better results. It may be necessary to get closer to (fig. 1) the light source if the light level is low. Adjusting the brightness control all the way clockwise and the background control all the way counter clockwise, then turning the background control clockwise until the led just barely goes on will give the fastest response and greatest selectivity, but with a loss in sensitivity. When ambient light is bright it may be necessary to find an aiming angle with the darkest possible background. If adjustment becomes difficult or the led lamp does not light disconnect the interface to insure there is not a short in the cable, then replace the 9 volt snap connect battery.

