

## INSTRUCTION MANUAL

Model: 1SL255  
Lamps: 2 FT55DL Lamps  
Ballast: Electronic, high frequency, SS  
Reflector: 95% specular reflectance  
Voltage: 120, 230, 277 50-60 Hz  
Manufacturer: PL Systems, Inc.  
Address: 10529 Olympic Drive, # 102  
Dallas, TX 75220  
(214)-393-5998 (voice)  
(214)-393-5999 (fax)  
e-mail: info@kw2.com  
Web page: KW2.com

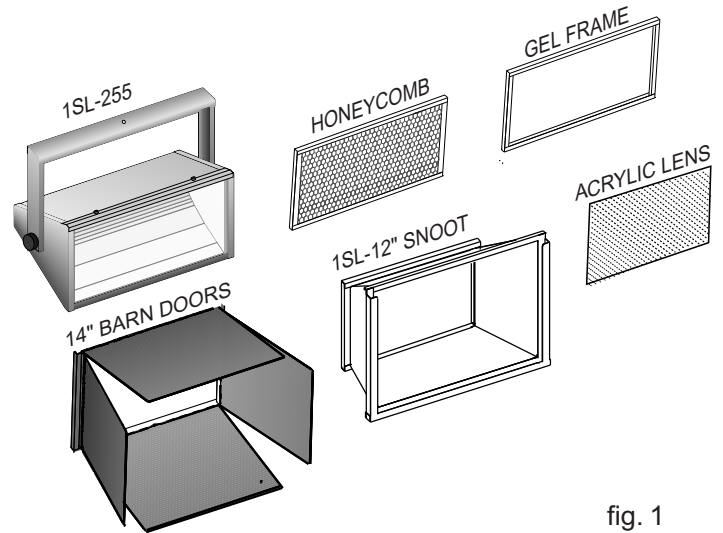


fig. 1

## GENERAL INFORMATION

Thank you for your selection of one of the most effective studio luminaires, the 1SL255. This high performance luminaire should provide many years of low cost operation. The 1SL255 is designed to maximize "throw" or "punch" by collimating the light while remaining "cool" and minimizing shadows. Unwanted spill is controlled with optional barn doors, egg crates or honeycomb. Throw is doubled with the 12" snoot. Like the fixture itself the Snoot provides a mounting slot for attaching gel frames and/or honeycombs. The 1SL is as close as fluorescent can come to a key light.

All PrimeTime studio Lights are equipped with advanced reflector technology.

The 1SL255 is available in standard full power (non-dimming), Voltage dimming, analog signal dimming (0-10 volts) and full DMX-512 discrete dimming (1 luminaire per channel). This degree of availability provides for compatibility with most current control scenarios.

The 1SL255 is made of welded steel and powder coated in non-reflective black. Accessories are made of aircraft alloy aluminum. Standard luminaires are equipped with detachable 10' long power cords. Each 120 volt cord is equipped with Edison 3 prong connectors. Other voltage models are shipped without plug unless specified. A fused power in and out receptacle is supplied for 120 volt models. Adjacent fixtures may be powered with this connector so long as the load does not exceed 8 amps. (fig. 2) Fuse is fast acting type 217, 10 amp, 250 V. The switch controls the power to the one fixture. Power is indicated when the switch is lit.

The 1SL255, like most of the line, is mountable in horizontal or vertical orientation. Ordinary grip devices allow stand mounting as well.

For instructions on dimming models see dimming addendum.

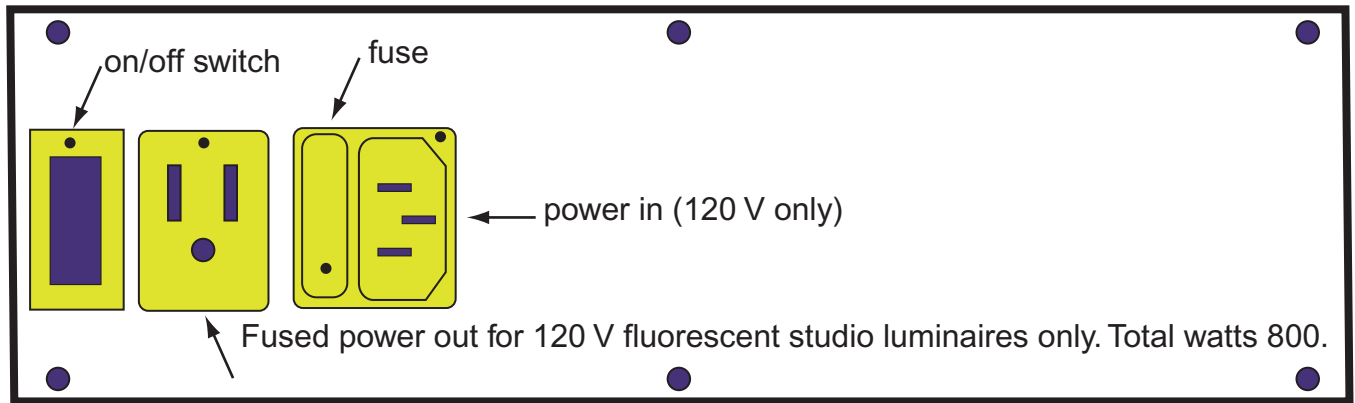


fig 2

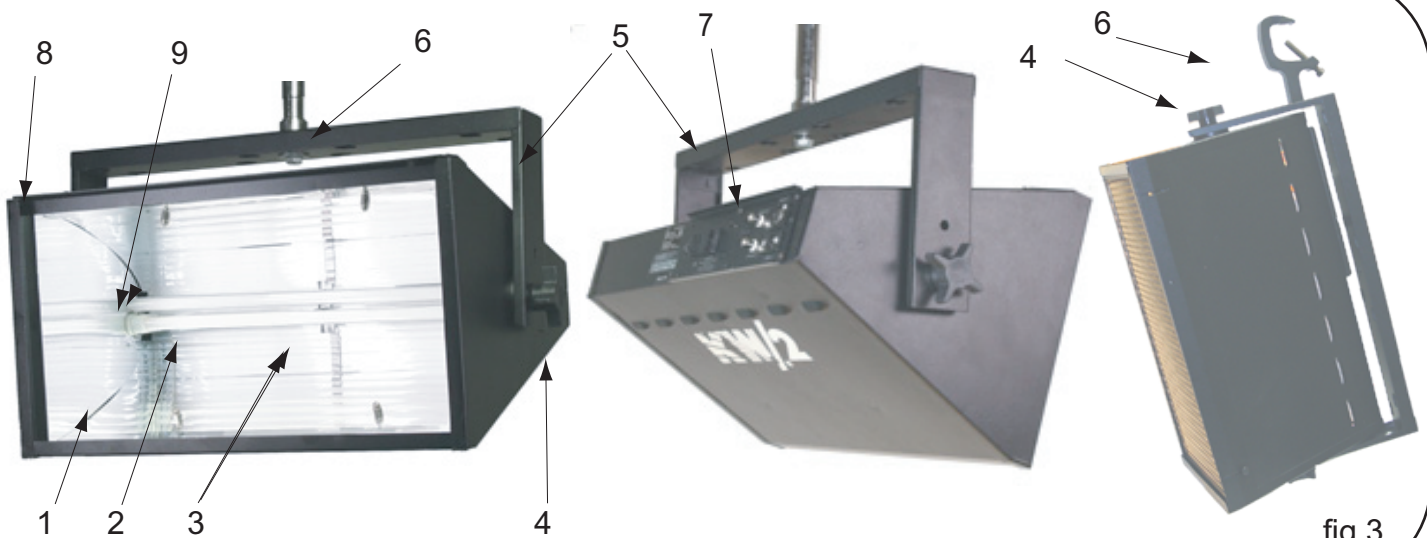


fig 3

The control panel is shown in fig. 2. This panel is the same in appearance to the voltage dimming model. A label containing the serial number indicating voltage and dimming capacity can be found on this plate.

Figure 3 indicates the features of the luminaire. They are:

1. Fresnel reflectors made with KW/2 technology exhibit 95% specular reflectance. Spectral response curve is flat over the visible range.
2. Two twin tube 55 watt studio lamps in several colors and performance levels are available in table 1. Lamps are long life, rated at 10,000 hours.
3. Lamp retainers locate and retain the engaged lamp. See "Lamp Installation".
4. Heavy duty adjustment knobs provide for precise altitude pointing.
5. Yoke or "bale" suspends the luminaire and allows azimuth pointing.
6. Rotation about these mounts allows hemispherical pointing.
7. Control panel including switch and power connections. See fig. 2.
8. Mounting slot retains gel frames and honeycombs.
9. Lamp holders. See lamp installation. Never attempt to remove or install lamps with power on!

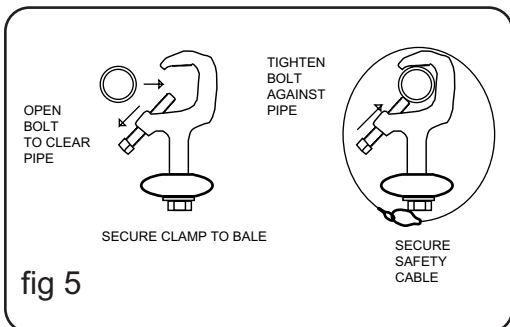
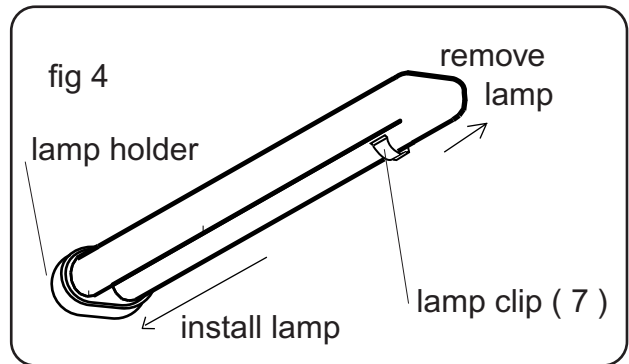
**INSTALLATION:**

Remove the luminaire from the shipping carton and inspect for any damage during shipping. If attenuators are ordered they may be installed in the aperture. If so, loosen the accessory slot cover retaining screws and slide the cover back to expose the slot. Remove the accessory to install the lamps which are shipped separately. see figure 4. Check the base of each lamp to insure that you have the correct lamp color and CRI. See Table 1 for available lamps.

LAMP COLOR	KELVIN	CRI	LUMENS	PLS PART#
TUNGSTEN	3,000	82	4,800	FT55DL/830
TUNGSTEN	3,000	98	3,000	FT55DL/930
TUNGSTEN	3,200	85	4,000	FT55DL/832
OFFICE	3,500	82	4,800	FT55DL/835
OFFICE	4,100	82	4,800	FT55DL/841
DAYLIGHT	5,400	98	3,000	FT55DL/950
DAYLIGHT	5,600	85	4,000	FT55DL/856

After determining that the lamps are correct, install the lamps by gently inserting one side of the lamp into the lamp clip. Then slide the base of the lamp into the socket while aligning the four pins with the holes. A "snap" is felt when fully plugged in. See fig 3. Caution: never remove or install lamps with active power to sockets as arcing can occur. Always turn off the switch or unplug the power cable at the rear of the fixture housing. When changing lamps allow a few minutes for cooling. Caution should be taken whether installing or removing as glass shards could occur.

When the lamps are installed, it is advisable to bench test each fixture. Plug the the power cord in one luminaire and turn the switch on the control panel ( fig 2 ). The switch should be lighted if the ballast has power. The lamps should start. Full intensity and correct color will be attained in about 5 to10 minutes. Next, the hanging means should be mounted on the yoke (fig 5 ) with a 1/2" bolt supplied with the "C" clamp and or stem. If vertical mounting is desired, the hanger or stem should be attached on one end of the yoke brace. If daisy chain power is desired, up to a total string wattage up to 800 watts, use of the "power out" receptacle. in figure (2).



Never install any lamp except twin tube Dulux or Biax with a rating of 55 watts. Improper lamp installation will produce poor color and will shorten ballast life. Avoid mounting over people without a lens of some type (neutral filter) in case of non-passive lamp failure. With the stems and "C"clamps attached, hang each assembly in the desired location on the 2" pipe grid or other qualified hanging system. Immediately add a safety cable as per fig. ( 5 )

## **TROUBLE SHOOTING**

If the luminaire will not strike, first determine if power is available to the switch. If the switch glows, there is power. Units older than 5 years may have plain switches. In this case, check for power at the outlets on the light and source. If the luminaire does not strike, the lamps may not be seated. Sometimes lamps are not seated fully into the socket. Never try to replace lamp with the fixture power on. This light is rated to start at 50 degrees F or below. High temperatures affect lamp colors and cause shortened ballast life. If the light flashes but won't stay on, there may be a loose wire or bad electronic ballast. Consult Factory if the luminaire is non-responsive. (214)-393-5998

## **REFLECTIVE SURFACE CARE AND MAINTENANCE**

The mirrored surface of this lighting product has the highest specular reflectance of any commercially available material. With proper care it should perform well for many years.

Fingerprints show up clearly and should be avoided. Dust adhering to the reflective surface shows, as well. In the event that soiling should occur, the reflector can be cleaned with little effort. It is best to start with a feather duster.

The clear coating of the reflective surface is chemically resistant and relatively tough but can be scratched by rubbing dusty grit causing marks. The effect is mostly cosmetic but should be avoided, especially for open fixtures. The best cleaners are those which leave no residue. Glass cleaners work well, as do very dilute solutions of hand dish wash detergents (1 drop/quart). Solvents stronger than iso-propyl alcohol should never be used.

Never use paper towels or tissues as these materials are made from wood and will cause scratches. Only soft cotton cloths should be used to wipe the surface. Use single strokes along the long axis of the reflector. Never use an orbital motion. The idea is that linear scratches don't show as much. Most scratches are caused by dust and dirt being rubbed into the surface. Before wetting the mirror surface, remove as much dust as possible using a feather duster or compressed air. Cloth diapers or soft, (well used) terry cloth works best. Never use spray cleaners like Formula 409, as these compounds leave residue. Spray on glass and mirror cleaners work best. If you have any questions call (214)-393-5998.

**CAUTION: ALWAYS DISCONNECT POWER BEFORE CLEANING THE LUMINAIRE**

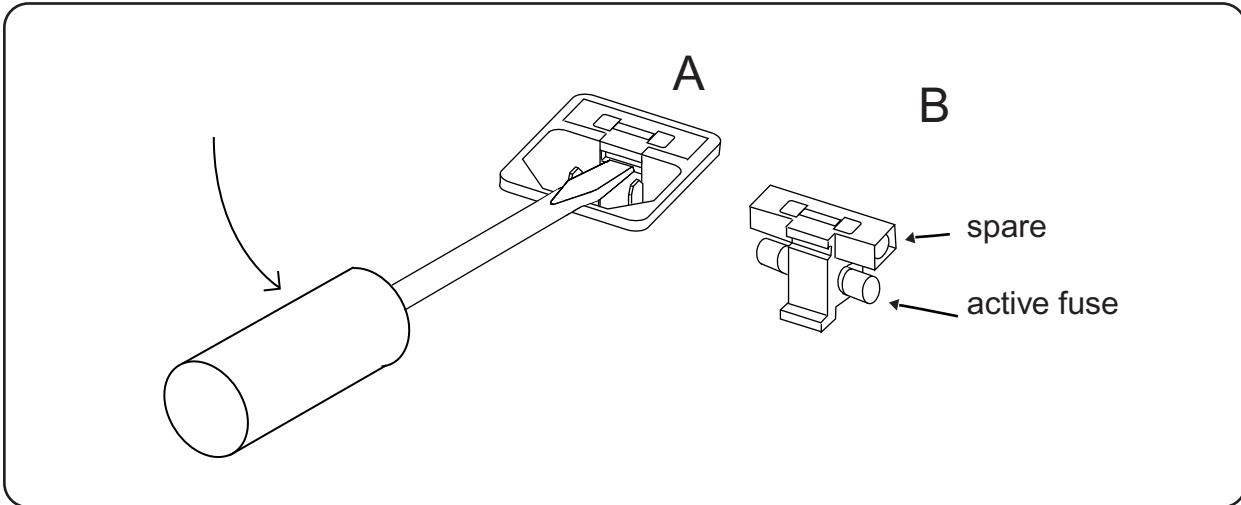


**PrimeTime**

Lighting Systems™

Manufactured in the USA by:  
PL Systems, Inc.  
10529 Olympic Drive Suite 102  
Dallas, TX 75220 (214)-393-5998

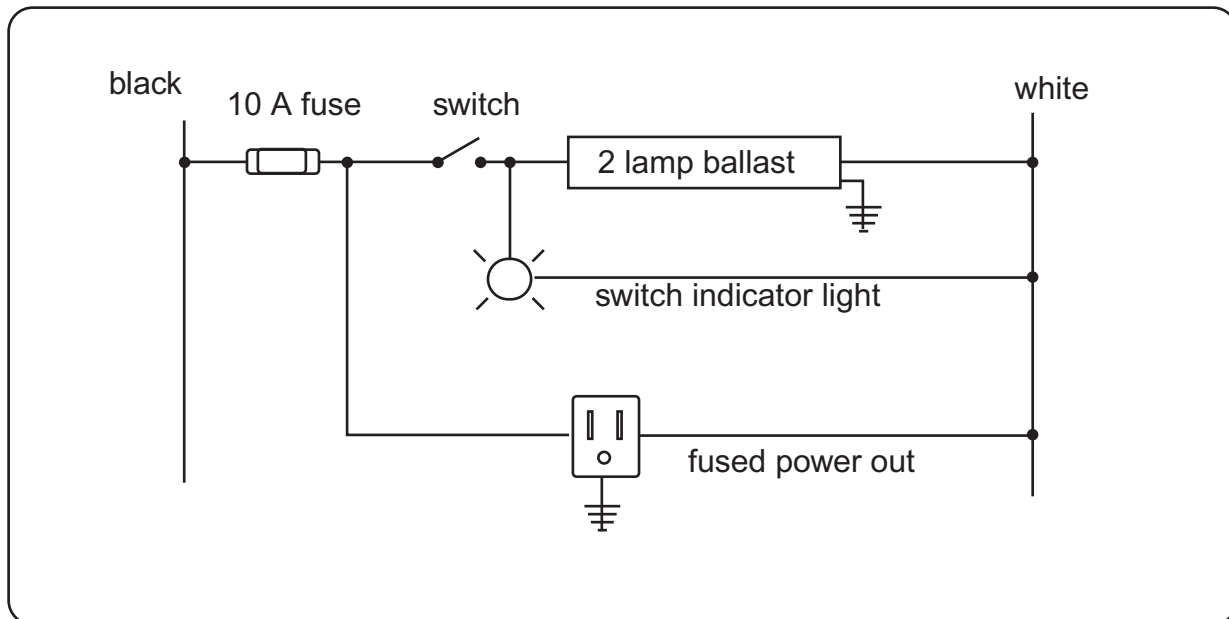
## FUSE REPLACEMENT FOR FIXTURES WITH DETACHABLE POWER CORDS.



### DIRECTIONS

Fixtures equipped with detachable power cords contain fuses which are rated at ten amps @ 250 Vac. To replace fuse remove power cord exposing the receptacle as shown in figure A. Make certain there are no other cords attached to the fixture. Using a small flat screw driver, pry up the fuse holder shown in figure B. Replace the fuse in the active slot and snap the fuse holder back into place. Use only fast acting type 217, 5 x 20 mm , 10 amp fuses.

### LINE POWER SCHEMATIC



### CAUTION

Fused power out receptacle to be used for fluorescent studio lights only. Maximum string wattage is 800. Fast acting fuse type 217, 5 x 20 mm , 10 Amps, 250 V.