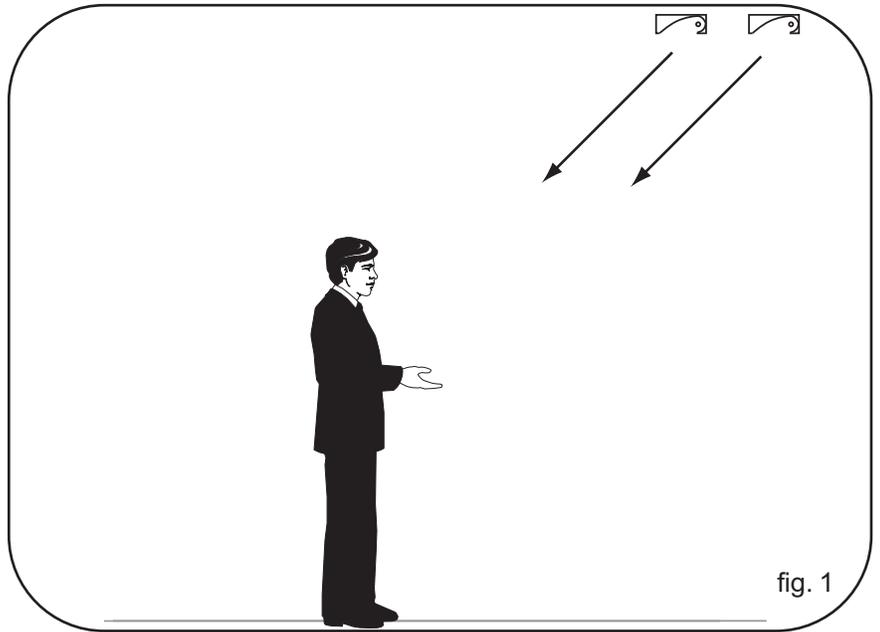


## INSTRUCTION MANUAL

Model: MJ154  
Lamps: 1 FT54 T5/HO Lamp  
Ballast: Electronic, high frequency, SS  
Reflector: 95% total reflectance  
Voltage: 120, 230, 277 50-60 Hz  
Manufacturer: PL Systems, In.  
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



## GENERAL INFORMATION

Thank you for your selection of one of the most effective video-conference light sources available. This high performance luminaire should provide many years of low cost operation. The MJ154 is designed to maximize "throw" or "punch" by collimating the light while remaining "cool" and minimizing shadows. Unwanted spill is controlled by the asymmetric reflector design which delivers most of the light to one side at 45 degrees from vertical. The MJ154 is designed as a 6"x 4' lay-in grid or surface mounted luminaire. All Primetime STUDIO and V.C. Lights are equipped with advanced reflector technology.

The MJ154 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 MJ154 is made of welded steel and powder coated in non-reflective black or gloss white. Standard luminaires are equipped with entry panel with two 1/2" conduit knock-outs for hard wiring. Available, 120 volt cord is equipped with Edison 3 prong connectors. Other voltage models are shipped without plug unless specified. Shielded cable whips are available.

The MJ154 can be surface mounted, bracket mounted, grid mounted chain or cable mounted.

Lamps available in tungsten to daylight colors and CRI from 82-98.

For instructions on dimming models see dimming addendum.

## MJ154 INSTALLATION AND MAINTENANCE

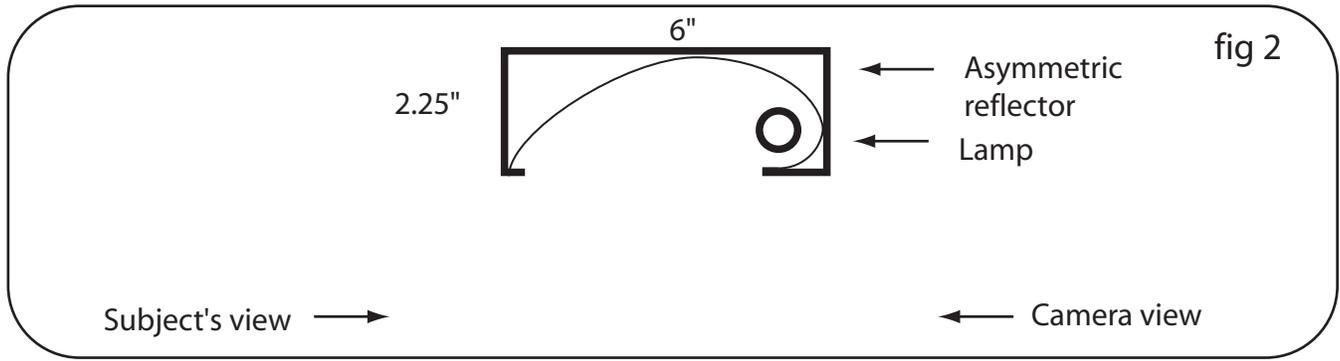
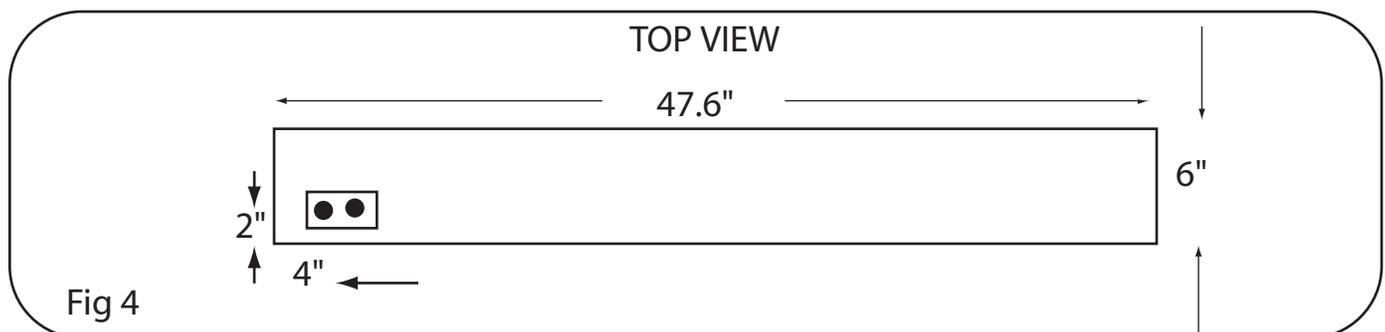
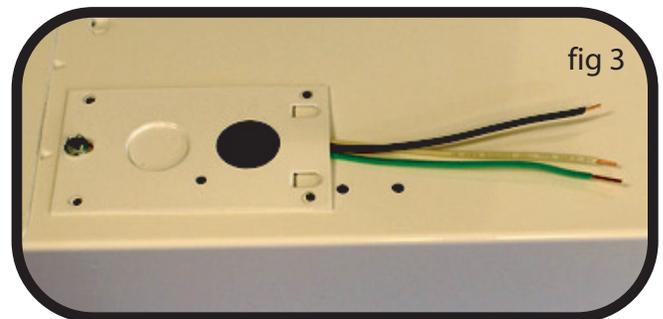


Figure 2 is a cross section view showing the asymmetric reflector. Please note that the lamps are always on the side away from the video-conference participant. The reflector is designed to throw the light to the side at a 45 degree angle. The directional beam is softened by the highly reflective matte surface. Avoid fingerprints on the reflector.

Installation as a lay-in troffer in a 2x4 grid is preferred. Installation should be by a qualified electrician and hard wired according to national and local codes. There is a power entry plate offering two 1/2" conduit knock outs. These entry plates are found at each end, on the front side. See fig.3 and fig.4.

Figure 4 shows the positions of the conduit knock-outs. This luminaire is sized to fit a lay-in grid or be surface mounted. The luminaire shown in fig.3 is configured to be hard wired.

When installing to a ceiling grid, make certain there are sufficient grid hangers to accommodate the additional weight. Installation should be by journeyman electricians.



**INSTALLATION:**

Remove the luminaire from the shipping carton and inspect for any damage during shipping. Unlike most fluorescent lights the MJ series produces an asymmetrical light output. One side delivers the total output with the peak aimed at 45dgr. Vertical illuminance is directed at the talent while the camera side of the luminaire appears black. The MJs are designed for "T" bar grid lay-in or surface mounting. To install the lamps, see figure 5. Check each lamp to ensure that you have the correct lamp color and CRI. See Table 1 for available lamps.

TABLE 1

LAMP COLOR	KELVIN	CRI	LUMENS	PLS PART#
TUNGSTEN	3,000	82	5,000	F54T5/HO/830
INTERMEDIATE	3,500	82	5,000	F54T5/HO/835
OFFICE	4,100	82	5,000	F54T5/HO/841
DAYLIGHT	5,000	82	5,000	F54T5/HO/850

Disconnect the power and install the correct lamps by gently inserting one end of the lamp into the slot on the lampholder, then swing the other end of the lamp into the other slot. Now rotate the lamp until a click or "snap" is felt when fully engaged.

**Caution:**

Never remove or install lamps with active power to sockets as arcing can occur. Always turn off the power when changing lamps . Allow a few minutes for cooling.

**Caution:**

Use protective gloves when installing or removing as glass chards could occur.

With power connected, the lamps start immediately. Full intensity and correct color will be attained in about 5 to10 minutes.

Never install any lamp except 48" T-5 High output with a rating of 54 watts. Improper lamp installation will produce poor color and will shorten ballast life.

For assistance call

(214)-393-5998, fax 393-5999

## **TROUBLE SHOOTING**

If the luminaire will not strike, first determine if power is available. If the luminaire does not strike, the lamps may not be 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 total 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™