



POWERLIGHT

Operator's Manual

PowerLight 1250

PowerLight 1250DR

PowerLight 2500DR

&

Remote Control Accessories

Unit Number Assignment, Page 14

PLDIR-2 and PLDIR-1 Remote Digital Display, Page 15

PLIRC-1 Infrared Remote Controller, Page 16

OPERATOR MANUAL FOR MONOLIGHTS

PowerLight 1250
PowerLight 1250DR
PowerLight 2500DR

OPERATOR MANUAL FOR ACCESSORIES

PLDD-1 side display for model PL1250 only.
PLDC-1 side display/manual controller for “DR” models.
PLDIR-2 side display & IR receiver for “DR” models.
PLIRC-1 hand held remote control for “DR” models.

Thank you for selecting the Photogenic Professional PowerLight PL2 series. The PL2 series incorporates the newest electronic components providing improved lighting control, power setting repeatability and expanded functions. These products are built for the demanding operational needs of the professional photographer and it is our expectation that your PowerLight and PowerLight accessories will provide you with years of dependable service. With this new PL2 series optional accessories include: remote power displays, manual and infrared remote control and computer software to control and save your power and modeling power settings.

INTRODUCTION

The PowerLights are a self-contained light unit and power supply. They have a professional plug-in flashtube, a 250 watt adjustable quartz modeling light, and bare bulb capability, both vertically and horizontally. The PowerLights are fitted with Photogenic’s unique quick-change system for holding accessories made by Photogenic Professional.

Before using your new PowerLight for the first time, please read this manual carefully and acquaint yourself with the controls and features. In this way, you can quickly get the greatest benefit from your new unit and maintain an efficient and safe operation.

SAFETY PRECAUTIONS

Despite the measures that have been taken to make electronic flash equipment safe, it must be recognized that high voltages and high temperatures do exist within the power supply / lighting unit. Certain precautions must be observed in handling the unit. Contact with internal high voltage may result in severe injury or death.

1. Before installing or removing the flashtube and modeling lamp, be sure this appliance is turned off, cooled and unplugged from AC power source.
2. Do not touch the glass tubes with bare hands, as normal body oils will shorten the bulb's life. Always use a clean cloth or wear gloves to protect your hand from glass breakage and heat.
3. Do not defeat the purpose to the three-wire line cord by disconnecting the ground. Connect to properly functioning and grounded 3-pin receptacles only. If you are using an extension cord, be sure the cord has an equivalent or greater rating and has a ground.
4. Do not insert a screwdriver or other metal objects into the flashtube socket area or vents. Contact with high voltage may result.
5. Do not operate this appliance with a frayed or damaged line cord. When replacing or using the unit with an extension cable, be sure the cable has an equivalent or greater rating and is a properly connected 3-wire grounded cable.
6. Do not attempt to use this appliance if it has been dropped or damaged, until a qualified service person has serviced it.
7. Do not operate the unit with a damaged or broken flashtube or modeling lamp. Do not use flashtubes with broken, cracked or missing glass envelopes. To prevent damage always use Photogenic specified replacements for the flashtubes and modeling lamps.
8. Perform no internal service work on this unit. Refer all such service to a qualified service person or return to the factory. This will provide you safety and continuation of your warranty.
9. Do not operate when water is present and from extreme temperature shifts. If the unit is stored in hot or below freezing temperatures, allow at least one hour at room temperatures before using.

PREPARATION AND BASICS

Unpacking and Setup:

Unpack all units carefully to remove all parts from the carton(s). Do not discard or destroy the packing material until the equipment has been inspected, assembled, and all parts accounted for.

After unpacking, all parts should be examined for any damage, which may have been caused by rough handling during shipment. If any damage is detected, contact the delivering carrier at once. Claim for damage should be made to the delivering carrier before destroying packing cartons.

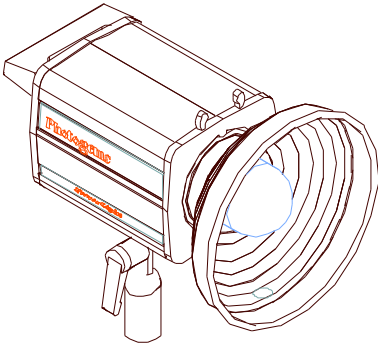
To set up the unit, first mount and secure it on a suitable stand. The PowerLight stand adapter allows the unit to be mounted on a stand with a 3/8" to 5/8" post. Be sure to use a stand that is stable and will not tip easily.

Unpacking and Setup: (continued)

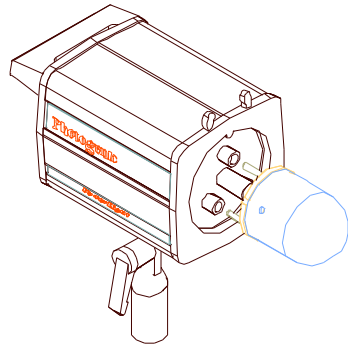
The unit is shipped with the modeling lamp and flashtube not installed. While installing the modeling lamp and flashtube (with glove or clean cloth to protect the hand) be sure they are properly inserted and tight to avoid arcing and failure of the socket contacts during operation. Do not touch the glass tubes with bare hands, as normal body oils will shorten the bulb's life. Always use a clean cloth or wear gloves to protect your hand from glass breakage and heat.

The 7 1/2 inch reflector is attached by the "quick-change" mechanism. Three tabs on the unit grip the ring on the reflector. Finger levers located on the top of the unit control two of these tabs. To mount the reflector, squeeze the finger levers towards each other and tilt the reflector past the stationary top-tab, then past the two tabs that are controlled with the levers. Release the finger levers and make sure all three tabs are securing the reflector (see illustration below.) All PowerLight accessory reflectors and soft boxes are designed for use with this "quick-change" system or onto this 7 _ inch reflector.

Squeeze levers to mount reflector in locked position.



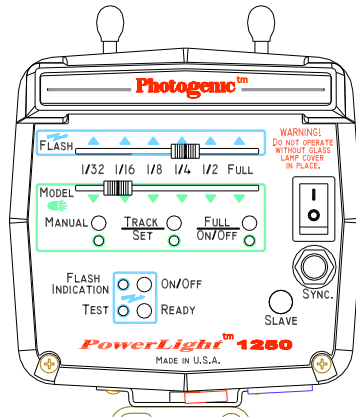
Punch out hole for umbrella rod.



Professional plug-in flashtube.

With power switch OFF, attach the line cord to the power-input connector, located on the bottom of the PowerLight, and connect it to a grounded wall outlet. Turn the power switch ON. The READY light will light when the unit has charged to the power level set by the FLASH power control.

CONTROL PANEL AND BASIC OPERATION:



Power Input:

The power required to operate the PowerLight 1250, 1250DR or 2500DR is 105 to 125 volts AC, 60 Hz, 10 Amp. The power cord has a 125V, 10 Amp. rating. Replacement cords or extension cords rated for less amperage may overheat and should not be used with PowerLights.

Circuit Protection:

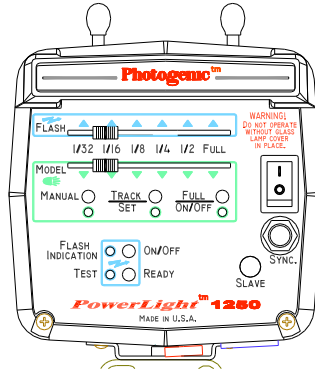
Circuit protection automatically protects this appliance from excessive damage due to circuit or component failure. Operation exceeding the rated cycle of the appliance may cause the fuse to open. [Always replace fuse with same rating of fuse.] An additional thermal protector is located inside the PowerLight and may open, if the rated duty cycle is exceeded. A cooling off period of 10 to 45 minutes is required to reset the thermal fuse.

To replace a blown fuse (power cord must be disconnected), simply unscrew the fuse holder cap (bottom of unit) and replace the exposed fuse with a new fuse. If fuses continue to blow, contact your dealer or qualified service person. (See specification section for fuse replacements)

Power Switch:

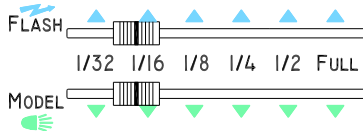
The power switch controls the AC power to both the modeling and flash circuits. You have the option to turn-off the modeling circuit independently.

PowerLight Model PL1250



Flash Power:

All settings and controls of the PowerLight 1250 are extremely stable and repeatable due to the use of an internal microcomputer. The 1250 and 1250DR are adjustable from 16 watt seconds to 500 watt seconds.



To adjust the PowerLight 1250 to its lowest flash power setting (16 watt seconds), slide the *FLASH* control knob all the way to the left.

To adjust the PowerLight 1250 to its greatest flash power setting (500 watt seconds), slide the *FLASH* control knob all the way to the right.

To adjust the PowerLight 1250 to an exact flash power setting, use the accessory digital display.

Ready Light:

The PowerLight 1250 is fully charged when the *READY* lamp is on. Lowest power (16ws) charge time is a maximum of .5 seconds and at full power charge (500 ws) time is a maximum of 1.5 seconds. The unit may be flashed before fully charged.

Modeling Light:

The modeling light has three modes of operation:

1. *MANUAL* adjustment [press the *MANUAL* button, LED on] adjusts the modeling lamp intensity with the *MODEL* slide control knob. As with flash power, minimum setting is full left and maximum setting is full right. The *MODEL* intensity scale corresponds to the *FLASH* intensity scale, measured in f-stops.
2. *TRACK* mode causes the modeling lamp intensity to track the *FLASH* control knob setting. The modeling lamp may be set to full intensity at any *FLASH* control knob position, by simply pressing the *TRACK/SET* button a second time, (you will notice the *TRACK/SET* LED light blink once) with the *FLASH* control knob in the desired position. Setting is retained when user returns from another mode.
3. *FULL ON/OFF* is exactly what it says. Press the *FULL ON/OFF* button to turn the modeling lamp OFF (LED off) or ON (LED on).

All mode settings are retained, even after the power has been turned off.

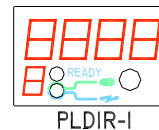
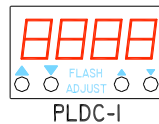
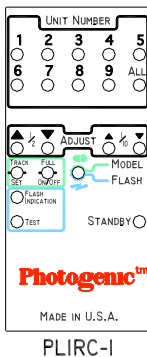
PL1250 Accessories:

A *Digital Display* for the flash power setting is available as well as the large assortment of PowerLight reflectors, umbrellas, softboxes, snoots, barndoors and cases. (See the listing later in this manual)

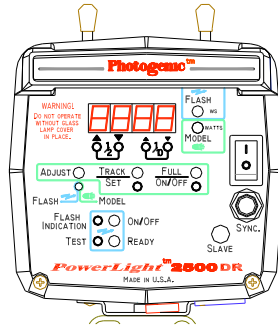


PL1250DR and PL2500DR Accessories:

A *Remote Digital display/flash control*, a *Remote Digital Display & Infrared Receiver* and a hand-held *Infrared Controller* are available, as well as the large assortment of PowerLight reflectors, umbrellas, soft boxes, snoots, barndoors and cases. (See the listing later in this manual)



PowerLight Models 1250DR and 2500DR



Flash Power:

Use the *Adjust* button to turn on the *Flash* w/s red LED. Adjust the PowerLight 1250DR or 2500DR *Flash* power setting using the 1/2 or 1/10 f-stops UP/DOWN arrow buttons.

Ready Light:

The PowerLight 2500DR is fully charged when the READY lamp is on. Lowest power (32ws) charge time is a maximum of .8 seconds and at full power charge (1000 ws) time is a maximum of 3 seconds. The unit may be flashed before fully charged.

The PowerLight 1250DR is fully charged when the READY lamp is on. Lowest power (16ws) charge time is a maximum of .5 seconds and at full power charge (500 ws) time is a maximum of 1.5 seconds. The unit may be flashed before fully charged.

Modeling Light:

The modeling light has three modes of operation:

1. MANUAL [press the ADJUST button to turn the MODEL yellow LED on] adjusts the modeling lamp intensity using the 1/2 or 1/10 f-stops UP/DOWN arrow buttons. Pressing the MANUAL button a second time will change the mode to flash adjustment and is indicated by the illuminated *red* LED
2. TRACK mode causes the modeling lamp intensity to track the FLASH setting. The modeling lamp may be set to full intensity at any FLASH value, by simply pressing the TRACK/SET button a second time, with the FLASH already set to desired watt-seconds. Setting is retained when user returns from another mode.
3. FULL ON/OFF is exactly what it says. Press the FULL ON/OFF button to turn the modeling lamp OFF (LED off) or ON (LED on).

All mode settings are retained, even after the power has been turned off.

PowerLight Models 1250, 1250DR and 2500DR

Test Function:

The *TEST* button is pressed to fire the flashtube for test purposes.

Flash Indication:

The PowerLight indicates the flash has fired properly. The flash indication feature will dim the modeling light to its lowest setting, then intensify slowly to full brightness or to its original state. This will occur after each flash, even though the modeling light may be off. This feature is turned ON (LED on) or OFF (LED off) with the *FLASH INDICATION* button.

Automatic Flash Dump:

This feature is set at OFF from the factory, but can be turned on by the user. (See advanced features section) This feature will automatically flash the unit when the *FLASH* setting is lowered; otherwise, the internally stored power is discharged through a resistor, before the unit is *READY*. Flash Dump is faster. The units recharge quickly and reducing your power setting slowly may result in additional flash discharges.

Synchronization and Triggering:

Triggering is accomplished by using a built-in photoslave or a trigger cable from the power supply to the camera shutter contacts of "X" or "zero" delay. Other units in the system are then triggered by photoslave operation. It is best to connect the fill light directly to the camera since it will be positioned furthest back in the studio and will usually provide sufficient illumination to trigger the other units. It is suggested that all walls and ceiling be painted either in white or light neutral colors for most reliable photoslave operation.

After the trigger cord is properly connected, check the synchronization with the camera. Adjust the lighting unit to same height as the camera lens and face the lights into the lens. The lens aperture should be open to its fullest extent and set on "X" or "zero" delay. Remove the camera back. It is best to perform this test with the modeling lamps turned off.

While looking at the lens through the back of the camera, operate the shutter. A few sheets of white paper in front of the lens will cut down the brilliance of the flash and aid in making the observation. The flash of the light should then appear as a circle the same size as the aperture. If the circle is flattened on the sides, or if no light appears through the lens, the shutter is not synchronized. If the shutter appears not to be synchronized, a reputable camera repair shop should check the shutter contacts.

OPERATION

PowerLight Model 1250 and 1250DR

Flashing Rate:

The unit recharges quickly, as indicated by the READY light on the control panel. A quick series of flashes can be obtained within the limits of the recharge time. Continuous rapid flashing, however, can overheat and damage the flashtube and internal parts. The maximum recommended rate of flashing depends upon the power level being used and the amount of operation time. Use the following chart to serve as a guide for the maximum rate to use in your situation.

Power Level	Operating Time	Sec. Between Flashes.	Number of Flashes.
Full	Continuous	15	Continuous
	30 minutes	6	300
	3 minutes	4	45
1/4	Continuous	6	Continuous
	30 minutes	3	600
	3 minutes	2	90
1/32	Continuous	1.5	Continuous

Exposure Information:

The following charts give the BCPS output for various umbrellas and reflectors. Coverage angle is given in degrees.

Umbrella	32 inch	45 inch	60 inch
Coverage	120 degree	120 degree	120 degree
Full Power	5500	5583	5583
Half	2750	2792	2792
Quarter	1375	1396	1396
Eighth	688	698	698
Sixteenth	344	349	349
Thirty-Second	172	174	174

Reflector

Diameter	None	7 1/2"	14"	16"	20"	24"
Coverage	360°	35°	40°	60°	65°	145°
Full	2333	25000	17500	23333	16333	4200
Half	1167	12500	8750	11667	8167	2100
Quarter	583	6250	4375	5833	4083	1050
Eighth	292	3125	2188	2916	2042	525
Sixteenth	146	1562	1094	1458	1021	262
Thirty-Second	73	781	547	729	510	131
GN@ ASA 100	110	365	305	350	295	150

SPECIFICATIONS

PL1250 & PL1250DR

General:

Flash Power.....	16 to 500 watt-seconds. maximum (6 f-stops)
Flash Duration.....	1/1300 second at Full 1/640 second at 1/32
Recycling time.....	0.5 to 1.5 seconds
Power Control.....	Full to 1/32 range. (6 f-stops) 0.1 f-stop resolution. Digital Display Accessory
Modeling Light Power	250 Watt Quartz, ESS
Modeling Light Control	Full to 1/32 range. 0.1 f-stop resolution. Line voltage regulated.
Triggering	Built in Photoslave. Push to Test button. Synchronization Jack. 5 volt isolated.
Main Supply	105-125 VAC, 60 Hz, 10 amp.
Consumption	0.2 amps idling, 15 amps charge.
Voltage Stabilization	Plus or minus 0.05 f-stop.
Overload Protection	Fuse. 3AG type, 15 Amp, SLO-BLO.
Packaging	Extruded Aluminum case.
Weight	5 pounds, 8 ounces.
Dimensions (housing only).....	4.5" x 4.5" x 6.75"

Flashtubes and Modeling Lamps:

Flashtube	Plug-in style, use only Photogenic's Standard C4-15 or C4-15C or C4-15F.
Modeling Lamp	250-Watt Quartz Halogen, ESS. 150-Watt Quartz Halogen, ESP. 100-Watt Quartz Halogen, ESR.
Fuse	3AG type, 15 Amp, SLO-BLO.

OPERATION

PowerLight Model 2500DR

Flashing Rate:

The unit recharges quickly, as indicated by the READY light on the control panel. A quick series of flashes can be obtained within the limits of the recharge time. Continuous rapid flashing, however, can overheat and damage the flashtube and internal parts. The maximum recommended rate of flashing depends on the power level being used and the amount of operation time. Use the following chart to serve as a guide for the maximum rate to use in your situation.

Power Level	Operating Time	Sec. Between Flashes.	Number of Flashes.
Full	Continuous	15	Continuous
	30 minutes	10	180
	3 minutes	6	30
1/4	Continuous	6	Continuous
	30 minutes	3	600
	3 minutes	3	60
1/32	Continuous	3	Continuous

Exposure Information:

The following charts give the BCPS output for various umbrellas and reflectors.

Coverage angle is given in degrees.

Umbrella	32 inch	45 inch	60 inch
Coverage	120 degree	120 degree	120 degree
Full Power	11000	11166	11166
Half	5500	5583	5583
Quarter	2750	2792	2792
Eighth	1375	1396	1396
Sixteenth	688	698	698
Thirty-Second	344	349	349

Reflector Diameter	None	7 1/2"	14"	16"	20"	24"
Coverage	360°	35°	40°	60°	65°	145°
Full	4666	50000	35000	46666	32666	8400
Half	2333	25000	17500	23333	16333	4200
Quarter	1167	12500	8750	11667	8167	2100
Eighth	583	6250	4375	5833	4083	1050
Sixteenth	292	3125	2188	2916	2042	525
Thirty-Second	146	1562	1094	1458	1021	262
GN@ ASA 100	160	515	430	495	415	210

SPECIFICATIONS

PL2500DR

General:

Flash Power.....	32 to 1000 watt-seconds maximum. (6 f-stops)
Flash Duration.....	1/770 second at Full 1/345 second at 1/32
Recycling time.....	0.8 to 3.0 seconds
Power Control.....	Full to 1/32 range. 0.1 f-stop resolution. Digital Display & Control Accessory
Modeling Light Power	250 Watt Quartz, ESS
Modeling Light Control	Full to 1/32 range. 0.1 f-stop resolution. Line voltage regulated.
Triggering	Built in Photoslave. Push to Test button. Synchronization Jack. 5 volt isolated.
Main Supply	105-125 VAC, 60 Hz, 10 Amp.
Consumption	0.2 amps idling, 15 amps charge.
Voltage Stabilization	Plus or minus 0.05 f-stop.
Overload Protection	Fuse. 3AG type, 15 Amp, SLO-BLO.
Packaging	Extruded Aluminum case.
Weight	7 pounds.
Dimensions (housing only).....	4.5" x 4.5" x 8.75"

Flashtubes and Modeling Lamps:

Flashtube	Plug-in style, use only Photogenic's Standard C4-19 or C4-19C.
Modeling Lamp	250-Watt Quartz Halogen, ESS. 150-Watt Quartz Halogen, ESP. 100-Watt Quartz Halogen, ESR.
Fuse	3AG type, 15 Amp, SLO-BLO.

ADVANCED POWERLIGHT FEATURES.

Models PL1250, PL1250DR, and PL2500DR

Automatic Dump Flash

This feature will automatically flash the unit when the *FLASH* setting is lowered; otherwise, the internally stored power is discharged through a resistor, before the unit is *READY*. Flash Dump is faster. This feature can be turned on or off, by the user.

Turn FLASH DUMP on: Turn PowerLight AC power off. With unit power off, press and hold the *FULL ON/OFF* button. While holding the *FULL ON/OFF* button, turn the unit power on and wait until the *FULL ON/OFF* LED blinks. Next, release the *FULL ON/OFF* button and the *FULL ON/OFF* LED will go off.

Turn FLASH DUMP off: Turn PowerLight AC power off. With unit power off, press and hold the *MANUAL* button. While holding the *MANUAL* button, turn the unit power on and wait until the *MANUAL* LED blinks. Next, release the *MANUAL* button and the *MANUAL* LED will go off.

Also, each time the AC line power is disconnected or switched off, the flashtube will flash. This removes most of the flash capacitor charge to prolong the life of the unit and is a much safer condition for storage, transporting, and replacement of flash tube or modeling lamp. This is a feature, over which the user has no control.

ADVANCED POWERLIGHT FEATURES.

Models PL1250DR, and PL2500DR only.

Unit Number Assignment

This feature allows the user to assign a UNIT NUMBER (1 to 9) to each DR type PowerLight in the studio. The UNIT NUMBER is necessary when INFRARED remote control is used (see accessories.)

To assign a UNIT NUMBER: Turn PowerLight AC power off. With unit power off, press and hold the 1/2 UP arrow button. While holding the 1/2 UP arrow button, turn the unit power on. Digital display should be “un #”, where # means some number 1 to 9. Next, release the 1/2 f-stop UP arrow button. Change the UNIT number using the 1/10 UP/DOWN arrow buttons. Close the assignment feature and save the UNIT number by pressing the 1/2 UP arrow button.

Advanced PL2 series Accessories.

PLDD-1 Digital display for Model 1250 only.

The PLDD-1 is a digital display to enhance the resolution and repeatability of the Model 1250's *Flash* analog slide-pot control. It displays only *Flash* power, over the full range of 16 to 500 watt-seconds. Resolution of the PLDD-1 is 0.1 f-stop.

The PLDD-1 should be mounted to the umbrella bracket under the housing of the Model 1250 PowerLight, on flexible rotating mount, or on an extension cable, for better viewing.

PLDRC-1 Remote digital display and flash adjustment for models 1250DR and 2500DR.

The PLDRC-1 is a digital display to enhance the visibility of, and to change the *Flash* power setting. It displays and controls only *Flash* power, over the full range of watt-seconds. Resolution is 0.1 f-stop, using the 1/2 f-stop and 0.1 f-stop UP/DOWN buttons.

The PLDRC-1 should be mounted to the umbrella bracket under the housing of the PowerLight, on rotating mount, or on an extension cable, for better viewing and easier control accessibility.

PLDIR-2 Remote digital display and Infrared receiver for models 1250DR and 2500DR. (must be used with PLIRC-1 controller)

The PLDIR-2 is a digital display to enhance the visibility of, and to receive infrared signals to control all functions of the 1250DR and 2500DR PowerLights. It displays both *Flash* power and Modeling lamp power and unit number. It has a green READY indicator and a BI-color indicator for *Flash* or *Model*. Behind a small window is an infrared receiver. Resolution is 0.1 f-stop.

The PLDIR-2 should be mounted to the umbrella bracket under the housing of the PowerLight, on rotating mount, or on an extension cable, for better viewing and infrared control.

Advanced PL2 series Accessories.

PLIRC-1 Infrared remote controller for models 1250DR and 2500DR. (must be used with PLDIR-1 receivers)

Similar to TV, VCR, DTV universal remote controllers, the PLIRC-2 can control up to nine (9) PowerLights with individual settings. If several PowerLights are used with identical settings the same unit number can be assigned to them. This will expand the total number of lights that can be controlled with the PLIRC-2. All panel button controls are available, plus STANDBY.

All PowerLights must have PLDIR-2 infrared receivers and have their unique unit numbers assigned. PowerLights may have identical unit number numbers, if they are to be operated exactly the same, under all studio arrangements.

Select a *Unit Number* on one of the top ten buttons, then control the PowerLight with the lower buttons, observing the PowerLight digital display for the changes.

The *All* button, under *Unit Number*, transmits the changes to all active PowerLights. This enables the photographer to raise or lower flash or model levels on all the units, without the laborious task of changing them all, individually.

STANDBY lets the photographer put all the PowerLights into a standby state to stop public photographers from slaving the units at a wedding, or some studio units can be put in standby when not required for a shot. The infrared control can easily reach to units on 12-foot stands (it has been tested to 100 feet, indoors.)

PLIBM-1 Studio System Controller software for IBM compatibles. (must be used with PL1250DR & PL2500DR with PLDIR-2 receivers.)

Along with infrared transmitter hardware and an IBM compatible computer using Windows 95 or 98, the software is used by the photographer to specify the PowerLight settings for up to nine units with independent settings and save a studio settings or as a pose file. An unlimited number of pose files may be saved. All PowerLights must have PLDIR-2 infrared receivers.

PLMAC-1 Studio System Controller software for MAC. (must be used with PL1250DR & PL2500DR with PLDIR-2 receivers.)

Along with infrared transmitter hardware and a MAC computer using Windows 95 or 98, the software is used by the photographer to specify the PowerLight settings for up to nine units with independent settings and save a studio settings as a pose file. An unlimited number of pose files may be saved. All PowerLights must have PLDIR-2 infrared receivers.

PLX-5 Five foot extension cable with adapter for PLDD-1, PLDRC-1 and PLDIR-2 displays.

PLX-10 Ten foot extension cable with adapter for PLDD-1, PLDRC-1 and PLDIR-2 displays.

PLX-15 Fifteen foot extension cable with adapter for PLDD-1, PLDRC-1 and PLDIR-2 displays.

POWERLIGHT QUICK CHANGE ACCESSORIES

REFLECTORS:

PL7R	7 1/2" Standard high grain reflector. 35 degree coverage.
PL14R	14" Parabolic for portraits, feathering, flood and fill lighting. 60 degree coverage.
PL16R	16" Parabolic for portraits, feathering, flood and fill lighting. 60 degree coverage.
PL16BD	16" 2-panel clamp-fit barndoor & diffuser.
PL16BDK	16" 4-panel barndoor and diffuser.
PL20R	20" Parabolic for portraits, feathering, flood and fill lighting. 65 degree coverage.
PL20BD	20" 2-panel clamp-fit barndoor & diffuser
PL24R	24" Parabolic for soft illumination and flood lighting. 100 degree coverage.
PL3R	Shallow Background reflector rotates to control light for high key & back lighting.
PL3RV	Veil Slotted Background reflector for veil and burst-lighting effects.
PL5R	Deep Conical Background reflector.
PL5AK	Gel & Diffuser holder for Deep background reflector.
PL7MF	Accessory mounting frame for 7 _" reflector.
PL7BDK	4-panel barndoor, frame and diffuser kit for PL06-R. Diffuser available separately
PL7SNK	3" & 5" snoot kit with diffuser and mounting frame. Snoots also available separately.
PL7GK	Fine & coarse grids with diffuser and mounting frame. Grids also available separately
PLCW	Counter weight for PowerLights. Used with soft boxes, umbrellas and large reflectors.
PLH	Tilting handle for PowerLights. Makes an adjustment easier for light direction.

POWERLIGHT QUICK CHANGE ACCESSORIES

UMBRELLAS:

EC32BC	32" White satin flat panel inner umbrella with black blocking outer umbrella.
EC45BC	45" White satin flat panel inner umbrella with black blocking outer umbrella.
EC60BC	60" White satin flat panel inner umbrella with black blocking outer umbrella.
EC32S	32" Silver satin flat panel inner umbrella with black blocking outer umbrella.
EC45S	45" Silver satin flat panel inner umbrella with black blocking outer umbrella.
EC60S	60" Silver satin flat panel inner umbrella with black blocking outer umbrella.

SOFTBOXES:

SB12x36	12"x36" Satin white front panel, silver inner panels with black blocking outer and Quick-Change bracket.
SB24x32	24" x 32" Satin white front panel, silver inner panels with black blocking outer and Quick-Change bracket.
SB36x48	36"x 48" Satin white front panel, silver inner panels with black blocking outer and Quick-Change bracket.
SB48x72	48"x 72" Satin white front panel, silver inner panels with black blocking outer and Quick-Change bracket.
SB22	22"x22" Satin white front panel, silver inner panels with black blocking outer and Quick-Change bracket.
SB36	36"x36" Satin white front panel, silver inner panels with black blocking outer and Quick-Change bracket.
OB48	48" Octagon - 48" Satin white front panel, silver inner panels with black blocking outer and Quick-Change bracket.

SERVICE

The photographer should not attempt to make repairs.

Consult a dealer for an authorized Photogenic Professional Lighting service agent. This will provide you safety, insure proper operational functions and provide continuation of your warranty.

For replacing the flashtube or modeling lamp, follow the directions and specifications given earlier in this manual in the setup section.

Before removing the old tubes or installing new tubes, always unplug your PowerLight and discharge the stored energy by pressing the "test" button. Wait approximately two hours for the main capacitors to deplete any residual stored wattage. Never place your fingers or any metal objects into the flash or modeling sockets. Contact with high voltage may result.

General Trouble Shooting

COMMON PROBLEMS AND CAUSES

Unit does not charge.

Probable causes:

- a. Fuse blown. (Unplug and discharge the unit-Replace fuse.)
- b. No line power to unit. (Check line cord and outlet.)
- c. Unit is on, but will not charge. (Safety thermal detector activated by heavy use, beyond specified Flashing Rates on page 9.)
- d. Unit completely off, but is connected to power and is turned on. (Safety thermal switch activated by internal discharge. Decreasing flash power setting **repeatedly** with the down arrow key or placing the unit into STANDBY with the remote control **repeatedly** causes the flash power to discharge through an internal power resistor. If the resistor over-heats, a thermal switch will open and cut off line power to the unit. After a 3-minute cool-off period, the power will return. This is a unit-protecting feature and can be caused by user actions or circuit failure.)

Modeling light does not turn on.

Probable causes:

- a. Lamp turned off. (Press FULL ON/OFF button until LED lights.)
- b. Lamp burned out. (Inspect and replace, when cool. See SERVICE section of this manual)

Light flashes by itself without apparent reason.

Probable causes:

- a. Defective trigger cord, or trigger cord incorrectly polarized.
- b. Bright light falling on photoslave.
- c. Poor connection in line cord.
- d. Reverse connection on trigger cord connection at camera.
- e. Some radio slaves will cause interference-consult slave manufacturer.

Trigger cord will not flash unit, but charge indicator shows that the system has charged.

Probable causes:

- a. Defective trigger cord.
- b. Defective flashtube. Turn unit off. Wait until cool, then replace flashtube. (See SERVICE section of this manual)

Limited PowerLight Warranty

Photogenic Professional Lighting warrants the “standard line” of new PowerLight products to be free from defects in material and workmanship of the PL2 series of PowerLights for a period of two years from date of purchase. At our choice, we will repair or replace any PL2, Solair or Voltage Smart series light that is deemed to be defective. This warranty does not cover damages caused by shipping, product abuse or use other than the intended photographic applications.

Any product modifications will render this warranty void. Use of other manufacturer’s accessories, which restrict normal or intended operation (especially venting airflow), may cause damage and will void this warranty. Flash tubes are warranted under the above conditions for one year from date of purchase. Modeling lamps are covered for initial use failures only.



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