Photogenic
professional lighting

Digital, Radio-Sync

POWERLIGHT®

Operator's Manual

PowerLight® PLR300DR
PowerLight® PLR1250DR
PowerLight® PLR2500DR
PowerLight® PLRX1250DR
PowerLight® PLRX2500DR
&
Remote Control Accessories

OPERATOR MANUAL FOR MONOLIGHTS

PowerLight® PLR300DR
PowerLight® PLR1250DR
PowerLight® PLR2500DR
PowerLight® PLRX1250DR
PowerLight® PLRX2500DR

OPERATOR MANUAL FOR ACCESSORIES

PLCPTR-2 Computer Control System.
PLDIR-2 Side display & IR receiver.
PLIRC-1 Hand held remote control.

Thank you for selecting the Photogenic Professional PowerLight Digital, Radio-Sync 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 Radio-Sync series, optional accessories include: radio-sync, 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 Lighting.

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

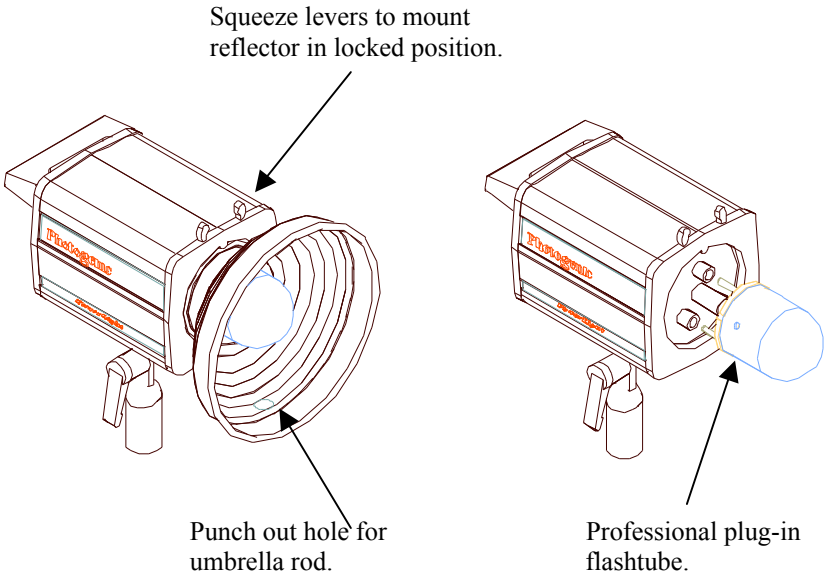
Unpacking and Setup:

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.

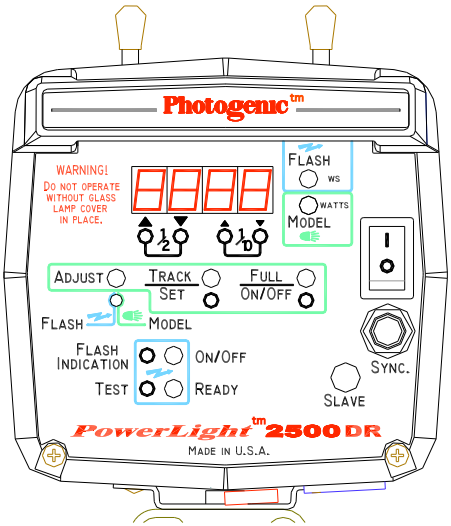
The unit is shipped with the modeling lamp and flashtube not installed. While installing the modeling lamp and flashtube (with glove or clean cloth to protect the hand) be sure they are properly inserted and tight to avoid arcing and failure of the socket contacts during operation. Do not touch the glass 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 _ 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.



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 PLR300DR, PLR1250DR or PLR2500DR is 105 to 125 volts AC, 60 Hz, 10 Amp. The power cord has a 125V, 10 Amp. rating. The PowerLight Export models (PLRX1250DR and PLRX2500DR) are rated 230 volts AC, 50 Hz, 10 Amp and have a 230V power cord with a German/European plug. 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 3 to 5 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)

Flash Power:

When the power is turned on the red *ws* LED is illuminated. You adjust the PowerLight *Flash* power settings by pressing the **1/2** or **1/10** f-stops UP/DOWN arrow buttons. The watt second settings will be displayed. (If the *adjust* button is pressed again the modeling circuit and yellow LED will be turned on.)

Ready Light:

The PLR300DR, PLR500DR (PLRX500DR) and PLR2500DR (PLRX2500DR) PowerLights are fully charged when the READY lamp is on. Lowest power (3.8, 16, 32 ws) setting charge time is a maximum of **.5, .5, .8** seconds and at full power charge (125, 500, 1000 ws) time is a maximum of **1.5, 1.5, 3** seconds, respectively, per model. The unit may be flashed before fully charged. When adjusting flash power settings downward the units will bleed stored power until the lowered power setting is reached, the ready light will then be re-illuminated.

Modeling Light: The modeling light has three modes of operation:

1. MANUAL [press the MANUAL/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/ADJUST button a second time will change the mode to flash adjustment and is indicated by the illuminated *red* LED

2. TRACK mode (Proportional modeling) causes the modeling lamp intensity to track the FLASH setting. The modeling lamp may be re-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. This setting is retained when the user returns from another mode. [Tracking is limited to 6 f-stops.] A common mistake is to set the tracking at the lowest f-stop, which always gives full brightness.

3. FULL ON/OFF is exactly what it says. Press the FULL ON/OFF button to turn the modeling lamp OFF (LED off) or FULL ON (LED on).
Note: All current mode settings are retained, even after the power is turned off.
All mode settings are retained, even after the power has been turned off.

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.

Synchronization and Triggering:

Triggering is accomplished by using a built-in **PocketWizard®** radio receiver, 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. [All radio-sync PLR units can be triggered with the **PocketWizard® PLUS** transmitter.] 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 a film 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 a film 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.

The sync polarity is Positive on center pin of cable connectors (Photogenic part PLTC, and defined in ISO 518.)

Sync voltage is 12 vdc (Spec. = less than 24 vdc per ISO 10330:1992E, and greater than 9 vdc for Wein photo slave at 10 microampere drain.) Internal 240 ohm discharge limit, with 68 k ohms continuous limit.

Sync signal = negative pulse, 10 microseconds or longer, from sync voltage to 1.6 vdc or less (per ISO 518.)

PocketWizard® use: The PowerLight built-in receiver is actually 16 channel useable. The PLUS transmitter is 4 channel. The PowerLight built-in sync radio receiver will hunt for a signal for 30 seconds after power is applied. If a minimum of four consecutive triggers are seen during that time period, the receiver will assume that channel. If no signal is seen, the receiver will operate on whatever channel it was set to before power was removed. So, turn on the Plus Transmitter and set the channel to 1, 2, 3 or 4. Make sure the local/both/remote switch is set to either both or remote. Hold the Test button (on Plus Transmitter) down and turn the PowerLight ON. Continue to hold the transmitter Test button down for 6 seconds. This should be sufficient time to teach the PowerLight receiver. When you press the Plus Transmitter Test button subsequently, the PowerLight will flash. Check transmitter instructions for proper connection to camera and other details. **To prevent the PowerLight photoslave from triggering the flash, you must insert a SYNC plug (or _" diameter dowel rod) into the _" sync jack.**

OPERATIONAL PARAMETERS

PowerLight Radio-Sync PLR500DR & PLRX1250DR

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 would depend 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	8.3	Continuous
	11 Minutes	6	116
	4 Minutes	4	60
1/2	Continuous	4	Continuous
	4 Minutes	2	124
	1.4 Minutes	1	85
1/4	Continuous	2	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
_	2750	2792	2792
_	1375	1396	1396
1/8	688	698	698
1/16	344	349	349
1/32	172	174	174

Reflector		PL7R	PL14R	PL16R	PL18RWD	PL24R
Diameter	None	7 _"	14"	16"	18"	24"
Coverage	360°	35°	40°	60°	126°	145°
Full Power	2333	25000	17500	23333	3570	4200
_	1167	12500	8750	11667	1785	2100
_	583	6250	4375	5833	892	1050
1/8	292	3125	2188	2916	446	525
1/16	146	1562	1094	1458	223	262
1/32	73	781	547	729	112	131
GN@ASA100/10'	110	365	305	350	137	150

SPECIFICATIONS
PLR300DR, PLR1250DR & PLRX1250DR

General:

Flash Power PLR/X1250DR.....16 to 500 watt-sec., 6 f-stops
Flash Power PLR300DR.....4 to 125 watt-sec., 6 f-stops
Flash Duration PLR/X1250DR.....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.
Sync Jack. (12 volt)
Built-in Radio-Sync.
Main Supply PLR300/1250DR .....105-125 VAC, 60 Hz, 10 amp.
Main Supply PLRX1250DR .....130 VAC, 50 Hz, 10 amp.
Consumption .....0.2 amps idling,
5 amps charge (30A peak).
Voltage Stabilization .....Plus or minus 0.05 f-stop.
Fuse, external PLR300/1250DR.....16A, SLO-BLO, 3AG type
Fuse, external PLRX1250DR.....8A, SLO-BLO, 5 X 20mm.
Packaging .....Extruded Aluminum case.
Weight PLR300DR.....5 pounds
Weight PLR1250DR.....5 pounds, 8 ounces.
Weight PLRX1250DR.....6 pounds.
Dimensions PLR300/1250DR (case)....4.5” x 4.5” x 6.75”
Dimensions PLXR1250DR (case).....4.5” x 4.5” x 8.75”

Flashtubes and Modeling Lamps:

Flashtube .....Plug-in style, use only
Photogenic’s Standard C4-15
or C4-15C, C4-15D or C4-15F.
Modeling Lamp .....250-Watt Quartz Halogen, ESS.
150-Watt Quartz Halogen, ESP.
100-Watt Quartz Halogen, ESR.

OPERATIONAL PARAMETERS

PLR2500DR & PLRX2500DR

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 would depend 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	17	Continuous
	7 Minutes	10	40
	2.5 Minutes	6	25
1/2	Continuous	8.3	Continuous
	4 Minutes	4	60
	1.4 Minutes	2	43
1/4	Continuous	4	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
_	5500	5583	5583
_	2750	2792	2792
1/8	1375	1396	1396
1/16	688	698	698
1/32	344	349	349

Reflector		PL7R	PL14R	PL16R	PL18RWD	PL24R
Diameter	None	7 ”	14”	16”	18”	24”
Coverage	360°	35°	40°	60°	126°	145°
Full Power	4666	50000	35000	46666	7140	8400
_	2333	25000	17500	23333	3570	4200
_	1167	12500	8750	11667	1785	2100
1/8	583	6250	4375	5833	892	1050
1/16	292	3125	2188	2916	446	525
1/32	146	1562	1094	1458	223	262
GN@ASA100/10’	160	515	430	495	194	210

SPECIFICATIONS
PLR2500DR & PLRX2500DR

General:

Flash Power	32 to 1000 watt-sec., 6 f-stops
Flash Duration	1/770 second at Full 1/345 second at 1/32
Recycling time	0.8 to 3 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. Sync Jack. (12 volt) Built-in Radio-Sync.
Main Supply PLR2500DR	105-125 VAC, 60 Hz, 10 amp.
Main Supply PLRX2500DR	130 VAC, 50 Hz, 10 amp.
Consumption	0.2 amps idling, 5 amps charge (30A peak).
Voltage Stabilization	Plus or minus 0.05 f-stop.
Fuse, external PLR2500DR	16A, SLO-BLO, 3AG type
Fuse, external PLRX2500DR	8A, SLO-BLO, 5 X 20mm.
Packaging	Extruded Aluminum case.
Weight PLR2500DR	7 pounds.
Weight PLRX2500DR	8 pounds.
Dimensions PLR2500DR (case)	4.5” x 4.5” x 8.75”
Dimensions PLXR2500DR (case)	4.5” x 4.5” x 10.75”

Flashtubes and Modeling Lamps:

Flashtube	Plug-in style, use only Photogenic’s Standard C4-19 or C4-19C, C4-19D or C4-19F.
Modeling Lamp	250-Watt Quartz Halogen, ESS. 150-Watt Quartz Halogen, ESP. 100-Watt Quartz Halogen, ESR.

ADVANCED POWERLIGHT FEATURES.
PLR300DR, PLR1250DR, PLRX1250DR, PLR2500DR and PLRX2500DR

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.

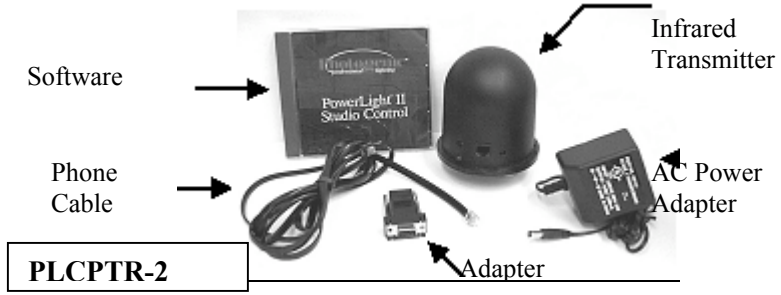
Turn FLASH DUMP off: Turn PowerLight AC power off. With unit power off, press and hold the *ADJUST* button. While holding the *ADJUST* button, turn the unit power on and wait until the *ADJUST* LED blinks. Next, release the *ADJUST* button and the *ADJUST* LED will go off.

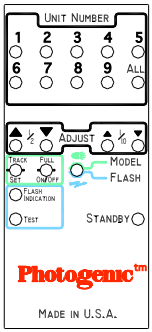
Also, each time the AC line power is disconnected or switched off, the flashtube will flash. This removes most of the flash capacitor charge to prolong the life of the unit and is a much safer condition for storage, transporting, and replacement of flash tube or modeling lamp. This is a feature, over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

***Unit Number* Assignment**

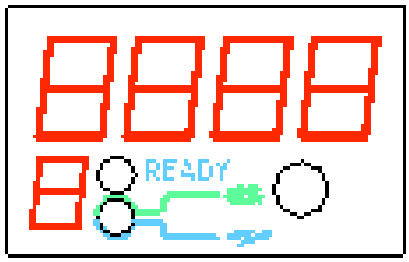
This feature allows the user to assign a UNIT NUMBER (1 to 9) to each DR type PowerLight in the studio. The UNIT NUMBER is necessary when INFRARED remote control is used (see accessories.) To assign a UNIT NUMBER: Turn PowerLight AC power off. With unit power off, press and hold the 1/2 UP arrow button. 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 PowerLight series Accessories.





PLIRC-I



PLDIR-2

PLDIR-2 Remote digital display and Infrared receiver.

(Must be used with PLIRC controller)

The PLDIR-2 is a digital display to enhance visibility and to receive infrared signals to control the functions of the PowerLights. It displays Flash power, 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 may 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.

PLIRC-1 Infrared remote controller.

(Must be used with PLDIR-1 receivers)

Similar to TV, VCR, DTV universal remote controllers, the PLIRC-1 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-1. All panel button controls are available, plus STANDBY.

All PowerLights must have PLDIR-1 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 U*nit 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.)

PLCPTR-2 Studio Controller & Software for IBM compatibles.
(Must be used with PLDIR-2 receivers.)

Along with infrared transmitter hardware and an IBM compatible computer, (using Windows 95, 98, 2000 or XP), the software is used by the photographer to specify the PowerLight settings for up to nine units with independent settings and save a studio setting or 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 PLDIR-1 display.
PLX-10 Ten foot extension cable with adapter for PLDIR-1 display.
PLX-15 Fifteen foot extension cable with adapter for PLDIR-1 display.

POWERLIGHT QUICK CHANGE ACCESSORIES

REFLECTORS:

PL06-R	**7 _"** Standard high grain reflector. 35 degree coverage.
AE65	**14"** Parabolic for portraits, feathering, flood and fill lighting. 60 degree coverage.
AE66	**16"** Parabolic for portraits, feathering, flood and fill lighting. 60 degree coverage.
AE58-16	**16"** 2-panel clamp-fit barndoor & diffuser.
AE58-16BDS	**16"** 4-panel barndoor and diffuser.
AE67	**20"** Parabolic for portraits, feathering, flood and fill lighting. 65 degree coverage.
AE58-20	**20"** 2-panel clamp-fit barndoor & diffuser
AE79	**24"** Parabolic for soft illumination and flood lighting. 100 degree coverage.
AE58-24	**24"** 2-panel barndoor kit.
A10166	Shallow Background reflector rotates to control light for high key & back lighting.
A10166A	Veil Slotted Background reflector for veil and burst-lighting effects.
A10157	Deep Conical Background reflector.
A10172	Gel & Diffuser holder for Deep background reflector.
PL47-MF	Accessory mounting frame for 7 _" reflector.
PL47-BDS	4-panel barndoor, frame and diffuser kit for PL06-R. Diffuser available separately.

AG47	3” & 5” snoot kit with diffuser and mounting frame. Snoots also available separately.
AG47-GS	Fine & coarse grids with diffuser and mounting frame. Grids also available separately
PL06-CW	Counter weight for PowerLights. Used with soft boxes, umbrellas and large reflectors.
PL06-HA	Tilting handle for PowerLights. Makes an adjustment easier for light direction.

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 - ” Satin white front panel, silver inner panels with black blocking outer and Quick-Change bracket.

General Trouble Shooting

COMMON PROBLEMS AND CAUSES

Unit does not charge. Probable causes:

1. Fuse blown. (Unplug and discharge the unit-Replace fuse.)
2. No line power to unit. (Check line cord and outlet.)
3. Unit is on, but will not charge. (Safety thermal detector activated by heavy use, beyond specified Flashing Rates on page 9.)
4. 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:

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

Light flashes by itself without apparent reason. Probable causes:

1. Defective trigger cord, or trigger cord incorrectly polarized.
2. Bright light falling on photoslave.
3. Poor connection in line cord.
4. Reverse connection on trigger cord connection at camera.
5. 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:

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

Defective flashtube. Turn unit OFF. Wait until cool, and then replace flashtube. (See SERVICE section of this manual)

Infrared not working. Probable causes:

1. Check for receiver model number to insure PLDIR-2 is being used and has been plugged into the PowerLight properly.
2. Turn unit power OFF and then back ON. The electronic startup sequence must detect the receiver is being used.
3. View the startup display sequence to insure “ir” is displayed. If “rado” is displayed see wireless setup in Advanced Features section.
4. If using the Hand-Held controller, press the unit number on the keypad before pressing any adjustment buttons. If using the Computer control, you must click transmit at the unit window or transmit-all at the top of the screen.

Radio-Sync not working. Probable causes:

1. Transmitter...wrong channel or batteries or connection to camera or defective.
2. Built-in receiver...wrong PowerLight model or defective.

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.

Limited PowerLight® Warranty

Photogenic Professional Lighting warranties the "standard line" products are 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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MANUAL PART NO.
016579-00V0 6-05