impact

LiteTrek 4.0 Monolight
INSTRUCTIONS

Congratulations on your purchase of the Impact LiteTrek 4.0 Portable Monolight. Enjoy the many benefits of a portable strobe light, such as shooting on location or anywhere a portable compact lighting solution is required. The LiteTrek Portable Monolight was designed to work in conjunction with our power pack system. With a fully-charged power pack, you can achieve 650* flashes at full power, and 3500* flashes at the lowest power setting. And the swappable battery pack allows you to continue shooting with fresh power. Please read these operating instructions and safety precautions before operating this equipment.
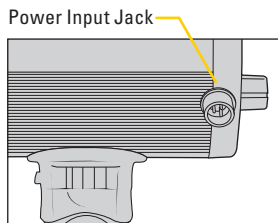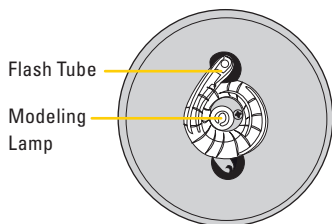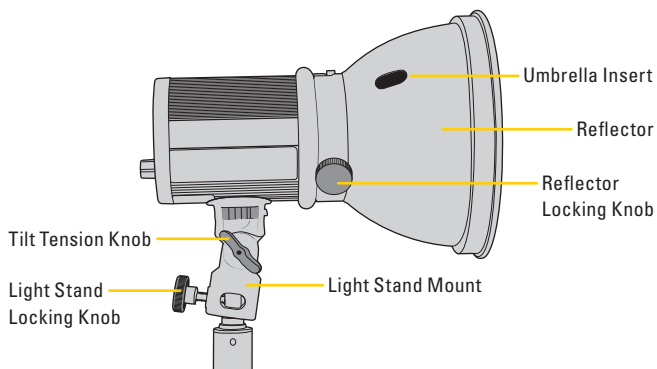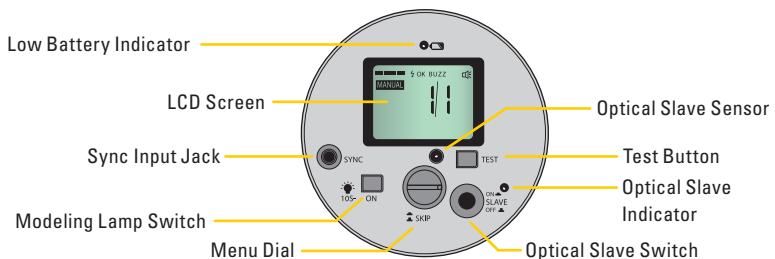
Features

- 400 watt/seconds of portable power
- Digitally controlled
- Stroboscopic Mode
- Full to 1/64 power control
- Full manual control
- Counter-balanced stand mount

Warning

- Do not disassemble the LiteTrek 4.0 Monolight or any included accessories
- Only use the LiteTrek Power Pack as the power source
- Unplug from power source when not in use
- Do not allow moisture or liquids to come in contact with the monolight, battery pack, charger, or cables
- Keep away from heat, fire, dust, and flammable oil and gases
- To avoid damage to the flashtube, mount light accessories, such as softboxes and reflectors, before turning on the unit.
- Speedrings, grids, reflectors, flash tubes, modeling lights, and other accessories heat up during long periods of use. Wait until parts have cooled off before touching these parts.
- Damaged flashtubes can pose serious risk of injury and electric shock. If the flashtube is damaged, turn the power pack off immediately. Replacement flashtubes can be purchased from your Impact retailer.
- Never touch the flashtube when the light is connected to a power source.
- Ensure there is sufficient air flow while operating the flash unit.
- Do not place metal objects near the power input jack.
- Do not use damaged cables.
  Replacements are available for purchase from an Impact dealer.
- Keep out of reach of children

Number of flashes varies according to charge state, temperature, and maintenance

Overview

Low Battery Indicator

LCD Screen

Sync Input Jack

Modeling Lamp Switch

Menu Dial

Optical Slave Sensor

Test Button

Optical Slave Indicator

Optical Slave Switch

MANUAL

SYNC

TEST

ON

SLAVE

SKIP

Umbrella Insert

Reflector

Reflector Locking Knob

Tilt Tension Knob

Light Stand Locking Knob

Light Stand Mount

Power Input Jack

Flash Tube

Modeling Lamp

Assembly

Attach the light stand mount to the bottom of the monolight using either one of the two counter-balancing holes. Tighten the thumbscrew on the light stand mount until it sits securely on the LiteTrek.
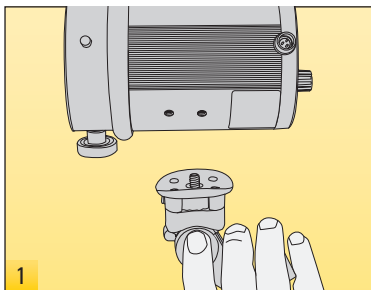
Loosen the stand mount knob and place the light onto a light stand with a 5/8˝ stud. Tighten the knob until the LiteTrek is secure on the light stand.
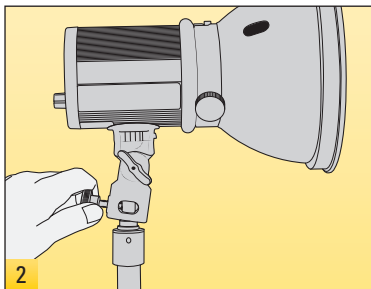
Adjust the tilt of the light by loosening the tension knob on the side and re-tighten when a suitable angle is found.
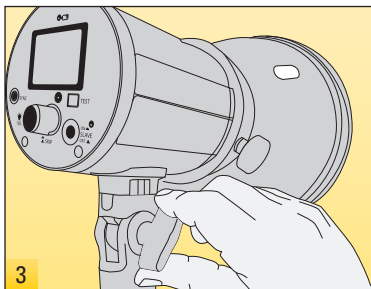
Attach the reflector by loosening the knob on the side of the reflector, and inserting the reflector so that the notches slide around the pins on the light head. Make certain that the hole for the umbrella shaft is positioned on the bottom of the reflector.
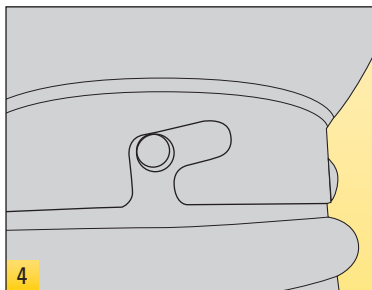
Twist the reflector clockwise until the pins are seated all the way into the notches, and then tighten the reflector locking knob to secure the reflector. Impact also makes an adapter that will accommodate Bowens-mount reflectors (see your Impact dealer).
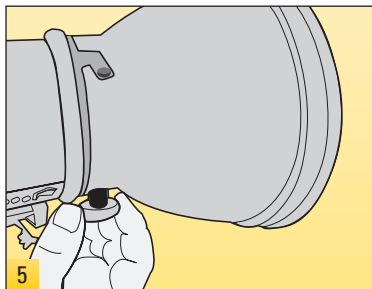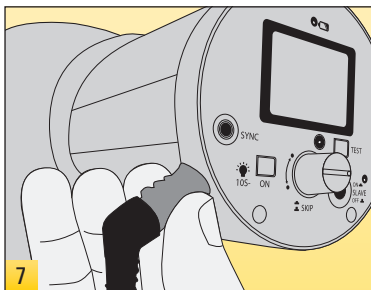

If an umbrella is to be used, insert the umbrella's shaft through the umbrella mounting hole on the reflector and then through the hole on the light stand mount.
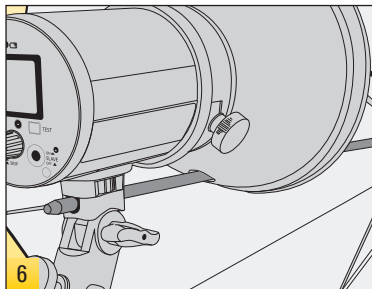
Assembly (continued)

Make sure the power pack is turned off. Insert the power cable into the flash head power jack.


Plug the other end of the power cable into the power pack (outlet A). Outlet A on the Mini LT Power Pack is for connecting to the LiteTrek 4.0 Monolight. Outlet B is for connecting to compatible portable flash units. The Power Pack will not turn on unless a power cable is securely connected. This prevents the battery from discharging when the power pack is not in use. Turn the power pack on by pressing the power button. You're ready to begin shooting.
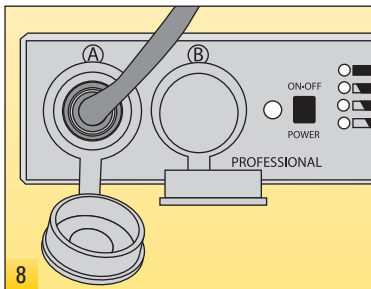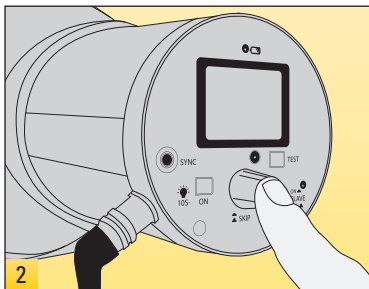
Operating Instructions

Turn the modeling light on for an indication of how the light will fall. The light will automatically shut off after 10 seconds in order to conserve battery power.
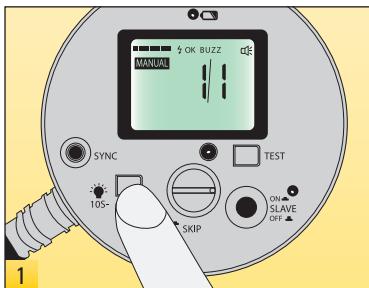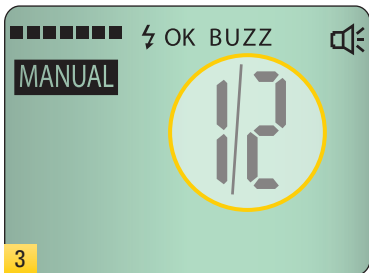

Set the power setting according to the required exposure by pressing the menu dial once, and then rotating the dial to the desired power settings.

As you turn the menu dial, the display will display the chosen power setting:

      1/1:   400 watt/seconds*
      1/2:   200 watt/seconds
      1/4:   100 watt/seconds
      1/8:   50 watt/seconds
      1/16: 25 watt/seconds
      1/32: 12 watt/seconds
      1/64: 6 watt/seconds

*Watt/second output figures are approximates and may vary according to various settings and conditions

Wait for the monolight to recycle before the next picture is taken. An audible beep may sound when the monolight has fully recharged and ready to fire again. If the audible beep function has been turned off, a visual indicator on the top left of the LCD panel also indicates the recycle progress.
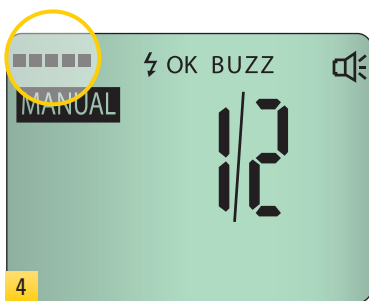
Quick Mode

The monolight offers five levels of sync speeds in Quick Mode:
FP, **F2**, **F3**, **F4** and **F5**.

FP, for "focal plane," produces a succession of flashes at a very fast speed in order to illuminate the sensor as evenly as possible when shooting with fast shutter speeds (typically above 1/250s). This series of flashes is usually not noticeable with the naked eye. When using the FP settings, be aware that the flash will output at its lowest power setting to compensate for the fast burst speeds.

Press the Menu Dial until the "QUICK" label is displayed on the left side of the screen.
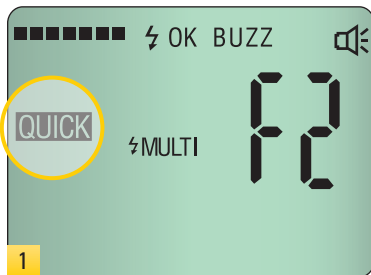
Rotate the Menu Dial to select the desired focal plane (FP) shutter speed:
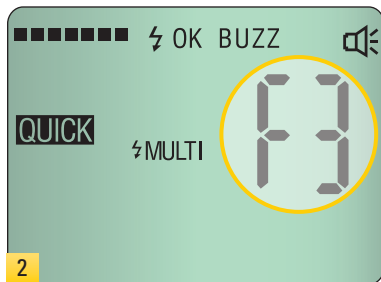   **FP**: 1/13000s (50w/s)*
    F2: 1/11000s (60w/s)
    F3: 1/9000s (70w/s)
   **F4**: 1/6000s (80w/s)
    F5: 1/4000s (90w/s)

*Watt/second output figures are approximates and may vary according to various settings and conditions
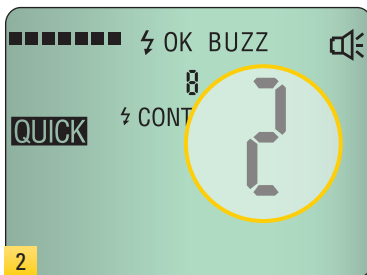
Multi Mode

Multi Mode produces a series of continuous flashes for a single exposure. These pulses of light allow you to freeze several moments of action in a single image. This mode is great for sports or when capturing movement is critical.
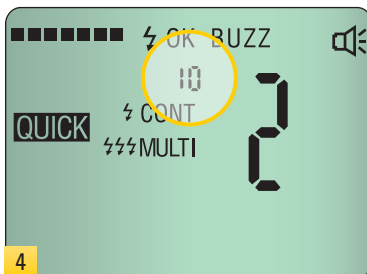
1
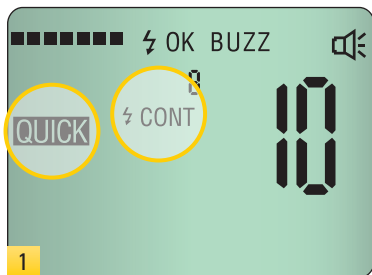
Press the Menu Dial until the "QUICK" label is displayed, as well as the "CONT" label in the center of the screen.

2

Choose the desired interval speed between each pulse of light from 1-10 by rotating the Menu Dial.


3
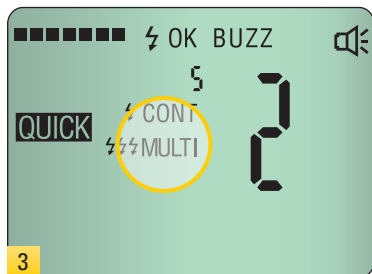
Press the Menu Dial again. "MULTI" will be displayed below "CONT."


4

Rotate the Menu Dial to select the amount of flashes that will fire in the sequence. Options are 5, 10, 15 and 20.

Audible Beep

After every flash, the power needs to be recycled or recharged before the next flash can be fired. The LiteTrek Monolight provides a visual indicator at the top left corner of the LCD where a progress bar animates until the recycling is complete. An audible beep is sounded when the flash has finished recycling. To disable the beep, press the Menu Dial until only the speaker icon is shown. Turn the menu dial to either disable it (the speaker will appear with a line across it), or to turn it on (the speaker will appear without a line across it).
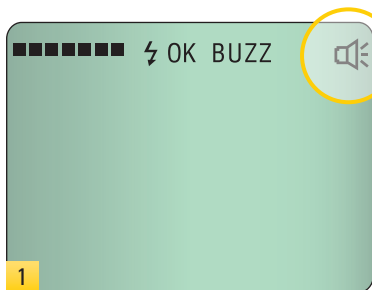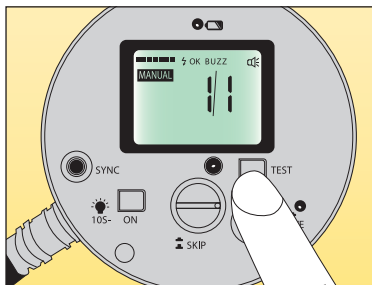

1 Press the Menu Dial until the screen displays only the top menu bar as shown above. Note the speaker symbol in the top right corner.
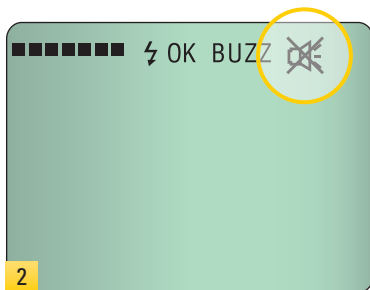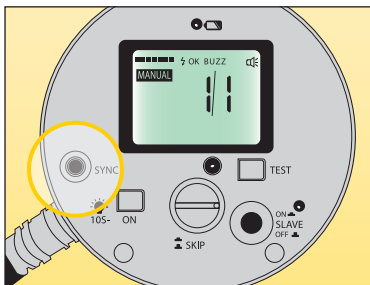

2 Rotate the Menu Dial to toggle between ON and OFF for the audible beep indicator.

Triggering the Monolight

The simplest way to trigger the flash is to press the TEST button. This is useful when you need to discharge the power built up in the flash unit, for example just before replacing the flash tube (more on that later).

The sync jack on the Monolight may be used for direct connection to a camera PC Sync connection. A radio slave receiver can also be plugged into this socket.
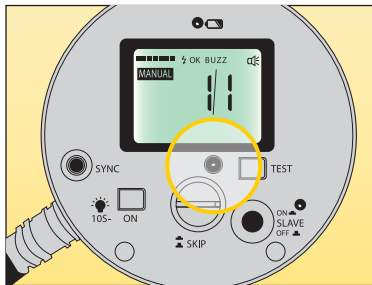
The monolight has an on-board light sensitive sensor, known as an optical slave, that reacts to flashes that fire nearby. The optical slave sensor is located on the back panel of the light.
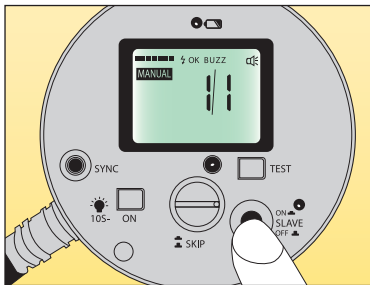
To set the Monolight to flash in slave mode, press the SLAVE button on the back of the light. The slave indicator LED will light to confirm you are in slave mode. Make sure that the primary flash that fires is in the line-of-sight of the optical slave, or it may not trigger.

Flash Tube Replacement

The charge in the flash unit must be discharged before removing the flash tube, or there is a risk of electrical shock. Make sure the flash unit is on. Push the TEST button on the rear panel of the flash. The unit will flash, discharging the power. Immediately turn 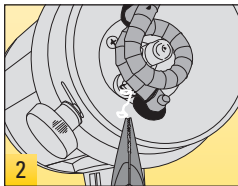off the power switch on the rear panel. Unplug the power cord from the power source. Never touch the flash tube immediately after use. Wait at least 30 minutes for the tube to cool down. Only use flash tubes designed specifically for the LiteTrek 4.0.

Turn off and disconnect light from the power supply. Remove the reflector.

Using needle-nose pliers, unwrap the retention wire that is wrapped around the hook below the flashtube.
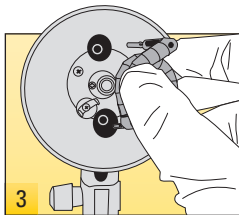
Using cotton gloves, gently lift and remove the old flash tube from its socket with one hand, while holding the light with the other hand.
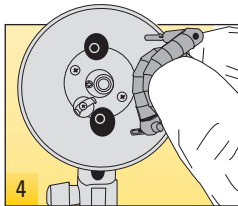
Insert a new flash tube by aligning the tube's pins with the light's socket.
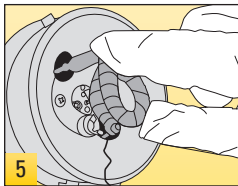
Push the pins of the flash tube into the sockets using firm but even pressure.
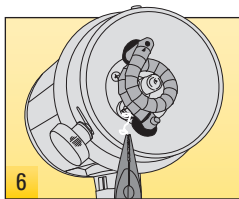
With needle-nose pliers, hook the retention spring over the hook below the flash tube.

Modeling Lamp Replacement
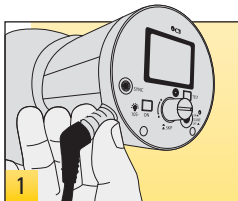
1 Turn off and disconnect light from the power supply. Remove the reflector.

2 Using cotton gloves, gently lift and remove the modeling lamp from its socket.
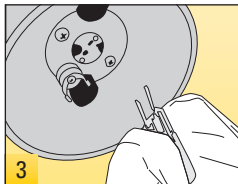
3 Gently insert the new modeling lamp with firm and even pressure until it sits securely in the socket.

Specifications

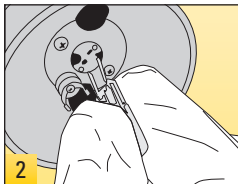|	
Total Power	400 w/s
Stops of Power	5 Stop Range
Recycle Time	1 Second (1/64 Power)
	2 Seconds (Full Power)
Flashes per Full Charge	650 (Full Power)
	3500 (1/64 Power) approx.
Flash Duration/Sync Speeds	1/2200s - 1/14000s
Full Power (1/1):	400w/s 1/2200s
1/2 Power:	200w/s 1/2800s
1/4 Power:	100w/s 1/3400s
1/8 Power:	50w/s 1/6500s
1/16 Power:	25w/s 1/9000s
1/32 Power:	12w/s 1/12500s
1/64 Power:	6w/s 1/14000s
Sync Circuit Voltage	5VDC
Flash Tube Rating	400w/s
Flash Tube Color Temperature	5500°K ±100°K
Modeling Light Rating	Model #BRL 50w
Modeling Light Color Temp.	2900°K ±200°K
Modeling Light Life	±100 Hours
Dimensions (light head only)	3.5 x 3.5 x 5.5˝
	90 x 90 x 140 mm
Weight	1.98lb (900g)

Power Settings

POWER SETTING		1/1	1/2	1/4	1/8	1/16	1/32	1/64
Guide Number*		56	40	28	20	14	9	6
f/Stop	**f/2.8**	20m	14m	10m	7m	5m	3.5m	2.5m
	f/4	14m	10m	7m	5m	3.5m	2.5m	1.7m
	f/5.6	10m	7m	5m	3.5m	2.5m	1.7m	1.2m
	f/8	7m	5m	3.5m	2.5m	1.7m	1.2m	0.8m
	f/11	5m	3.5m	2.5m	1.7m	1.2m	0.8m	0.6m
	f/16	3.5m	2.5m	1.7m	1.2m	0.8m	0.5m	0.3m

*This chart represents approximate measurements that are relative to varying situations.

Metering

When using external non-dedicated flashes, the camera may not be able to properly gauge exposure. The best way to set exposure is by setting the camera to manual and using an external light meter.

Autodump

If the power level is turned down after recycling, the autodump feature will automatically "bleed" off the excess power without having to manually dump the charge.

Troubleshooting

Symptom	Solution
Modeling light does not work. .	The modeling light automatically shuts off after ten seconds to save battery power. When necessary, press the modeling light button located on the LiteTrek control panel.
The slave sensor does not trigger the light.	Make sure that the "slave" button located behind the light is turned on. An LED will turn red when it is turned on. The slave function uses a light sensor on the back of the light. Make sure that there is not any obstruction between the primary flash and this sensor. The slave function may take 15 seconds to start up.
Flash does not trigger	Ensure flash tube is seated properly. Replace the flash tube if there are signs of scorching, blistering, or cracks on the tube.

Warranty

Impact provides a limited warranty that this product is free from defects in materials and workmanship to the original purchaser under normal use for a period of one (1) year from the original purchase date. Impact's responsibility with respect to this limited warranty shall be limited solely to repair or replacement, at its option, of any product which fails during normal consumer use. This warranty does not extend to damage or failure which results from misuse, neglect, accident, alteration, abuse, improper installation or maintenance. To obtain a replacement during the time of this warranty, please return the defective item with proof of purchase along with an RMA number to the place of purchase. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

To see all of our lighting equipment,
please visit our Web site.

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www.impactstudiolighting.com