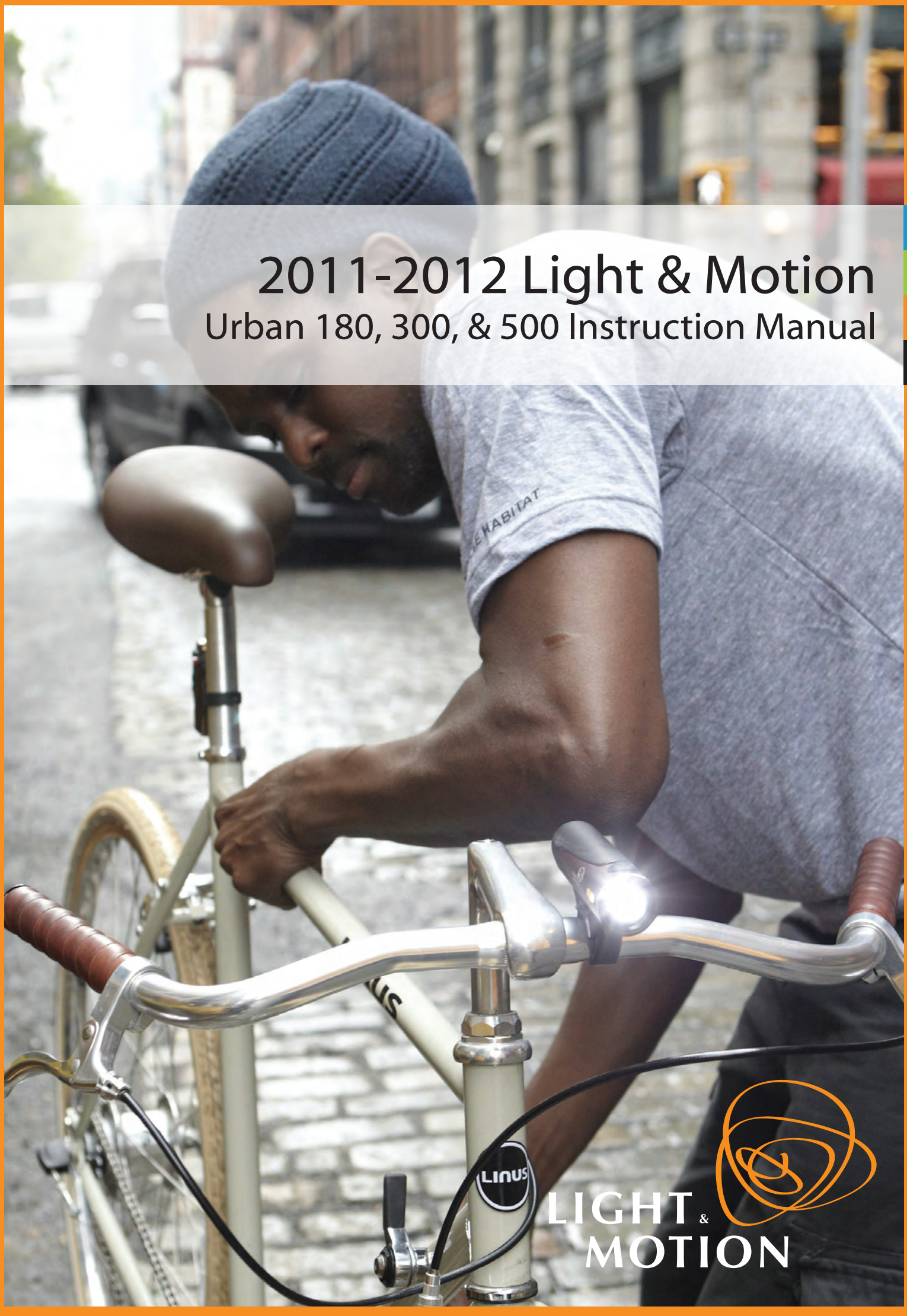

2011-2012 Light & Motion

Urban 180, 300, & 500 Instruction Manual

LIGHT & MOTION

Congratulations! You've purchased what we consider the best commuter lighting system available – the Light & Motion Urban 500, 300 or 180. We hope that your new light will inspire you to leave your car at home, rediscover your old stomping grounds, and ride your bike year-round.

To receive maximum benefit from your new Light & Motion system, please take a moment to familiarize yourself with your new light by reading the following instructions.

Caution

- A good lighting system can make cycling in the dark safer, but the best way to be safe is to ride defensively.

Warranty

Light & Motion provides warranties against manufacturer defects for 1 year starting from the date of purchase. While the warranty is non-transferable and does not cover failures from misuse, damaged lights can usually be repaired for a nominal fee.

Returning Products for Warranty Evaluation & Repair

Should your system malfunction for any reason, submit a service request to the Light & Motion service department at:

www.bikelights.com/support

We will contact you the following business day to finalize the arrangements for your repair. When returning your system, please make sure to unplug the battery from the light before shipping. Always package your Urban so that the switch cannot be pressed accidentally by the light moving around in the box. All warranty and repair products should be returned, with proof of purchase from an authorized dealer to:

Light & Motion
RMA# _____
300 Cannery Row
Monterey, CA 93940

International customers please contact your local bicycle dealer for warranty and return instructions.

"Light & Motion's latest commuter light is very small but packs an impressive 500 lumen capability. It weighs just 113 grams and features amber side emitters for 180 degree visibility."

-Bicycling.com (Sept. 15th, 2011)

Urban Lighting Systems

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Urban Lighting Systems

Please take a moment to verify the contents of your Light & Motion lighting system.

Urban 500:

1a. Urban 500 Including Bar Mount

2. Light & Motion USB Charge Cord

3. Helmet Mount

Figure 1a: Urban 500

Urban 300:

1b. Urban 300 Including Bar Mount

2. Light & Motion USB Charge Cord

3. Helmet Mount

Figure 1b: Urban 300

Urban 180:

1c. Urban 180 Including Bar Mount

2. Light & Motion USB Charge Cord

Figure 1c: Urban 180

Figure 3:
Helmet Mount

Figure 2:
Light & Motion USB Charge Cord

Charging

Always fully charge your system before its first use. Systems are shipped only partially charged and must be fully charged to achieve the proper run time. Take this time to familiarize yourself with the meaning of the status indictor LEDs.

The Lithium-Ion battery contained in Urban will power you through many hundreds of rides and will serve you well if you follow these simple rules:

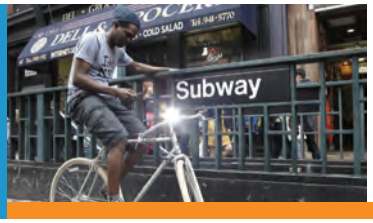
- **Never store the battery dead.** Charge it up after your ride, before storing.
- **Charge before you ride if you haven't charged it within a few days.** Lithium Ion batteries lose charge slowly over time.
- **Don't leave your system on charge for days or weeks at a time.** This has a very small affect, but over a long time this can reduce runtime.

Note: For long term storage (months), you don't need to store it full. Charge up, and run the light down until the indicator LED is amber (75% charge). Do this every three months or so. This also has a very small effect on battery life, but if you only use your light during a few months of the year, it will help maintain better runtime from year to year. **Alternately,** you can just charge it every 3 months and remove from the charger. Simpler, and almost no difference in performance over time.

Charging with the USB Cable

1. Plug the included USB cable into the appropriate USB port on your computer.
2. Attach the Urban to the USB cable, inserting the plug into the system's charging receptacle appropriately.
3. Once the battery is attached to the USB charger, a flashing green LED will illuminate on the back of the Urban indicating the battery is receiving a charge.
4. When the green LED stops flashing and remains a constant green, this is an indication the battery is fully charged.

The Urban will charge from depleted to full in about 5 hours.



Installation of Urban

Installing Urban onto your bike

Your Light & Motion Urban light head comes with a universal bar/helmet mount. To install on your handlebar, determine the best place on the bar to mount as it relates to your specific brake & shifter layout. Ideally, Urban should be mounted as close to the stem as possible. After determining the proper location, wrap the strap under and around the handlebar, pulling it up and over the mounting post in front of the light (fig 15).

Note: Tighten the strap only enough to prevent slipping around the bar. Pulling the strap too tight can eventually cause a premature failure.

To remove, simply release the strap from the locking post.

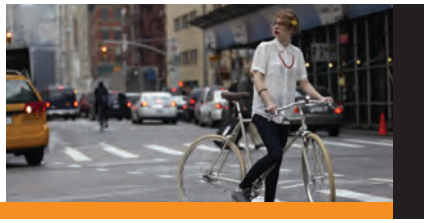
Fig 15: Urban on bar (strap over post).

Installing Urban onto You

The Helmet mount is designed to be mounted on any standard, vented bicycle helmet. Position the base of the helmet mount on top of the helmet, in the middle and slightly forward of center. Slide the hook and loop strap down through the proper vent, back up through the opposing vent, and finally through the slot in the base of the mount. Pull the strap tight and slide it back down the vent and affix it to the "loop" side of the strap inside the helmet (fig 17). Now install Urban just like you would on a handlebar (see instructions "Installing Urban onto your bike").

Figure 17: Mount tight on helmet.

Urban System Operation



Normal Operation

The Light & Motion Urban LED lights all have one switch on the top of the head that controls power. A brief button push activates "Cruise" mode where you will find 4 settings: High, Medium, Low, and Flash. A single click cycles through each of these settings. Because our riders are versatile cyclists, we design our lights to accommodate those needs.

Aiming your Urban

Light & Motion creates lights with optics designed to reflect the maximum amount of light and direct to where a rider needs it most. Seca takes this one step further and introduces our proprietary Gem-Beam footprint of light, which clips light from where you don't need it and redistributes it where you do.

For best results at lower speeds, position your light so that you get ample fill/peripheral light in front of the tire from the flood portion of the beam. For faster speeds, you can position it slightly higher so that the spot portion of the beam shoots farther down the road giving you enhanced depth perception and a long line of site.

Battery Discharge Protection

All Light & Motion lights incorporate a low battery warning and battery discharge protection circuit. If the battery becomes discharged, the light head will automatically dim down to try and preserve battery life, this will occur with approximately 15 minutes of battery life to go.

Batter Status Indicator:

The Urban has a battery status indicator, located on the back of the light.

- A **green light** indicates > 75% Charge
- A **amber/yellow light** indicates > 50% Charge
- A **solid red light** indicates > 25% Charge
- A **red flashing light** indicates < 25% Charge

Auto-Shutoff

When Urban can't stay on any longer without damaging the battery, the main LED will flash quickly for 10 seconds and then shut off. If you see this, hit the brakes and stop safely. Once Urban has done an auto-shutoff, it will not operate again until it is charged. This is to protect the battery, as there is no more useful charge in your system.

Urban Operations Cont'd / Recycling

Urban Run Times

Urban 500

	Lumens	Runtime
High	500	1:30
Med	300	3:00
Low	180	6:00
Flash	-	20+

Urban 300

	Lumens	Runtime
High	300	2:20
Med	150	4:30
Low	75	8:30
Flash	-	20+

Urban 180

	Lumens	Runtime
High	180	2:40
Med	90	4:40
Low	45	8:30
Flash	-	20+

Recycling Instructions

This product contains components that may not be disposed of as unsorted municipal waste and must be reused or recycled per the requirements of the European Union Directive 2002/96/EC on waste electrical and electronic equipment (WEEE). The logo on the battery indicates that the product must be returned for the reuse or recycling.

Please contact the store where your product was purchased to determine how and where to return the product for recycling.

Light & Motion thanks you for helping us manage the recycling of these components in order to keep the environment clean.

L&M Parts & Accessories

Chargers	USB Wall Charger - 760-0009 DC to AC Car Adapter - 804-0065 USB Cable Charger *- 680-0169
Mounts	Urban Helmet Mount ** 804-0109 Urban Bar Mount * 804-0144

* Included with all Urbans
** Included with Urban 500 &300

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www.lightandmotion.com