



# LED DayLite<sup>®</sup> WireLess<sup>™</sup> User Guide Ver. 10.15



**DESIGNS FOR VISION, INC.<sup>®</sup>**

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## Indications for Use

The Designs for Vision® LED DayLite® WireLess™ is a lightweight, frame mounted headlight that is designed for general illumination in laboratory settings.

## Device Description

The Designs for Vision® LED DayLite® WireLess™ provides bright, portable light to the laboratory environment. The headlight is designed to clip onto a wide variety of frames. It is powered by a lithium ion battery and generates a 3” spot of light at a 12 inch working distance. The light has a correlated color temperature of 5800°K and a maximum intensity of 40,000 lux. The unit can run on battery power for approx. 100 minutes before needing to be recharged.

The LED DayLite® WireLess™ consists of the following:

LED Headlight  
Three Battery Pods

Smart Charging Cradle  
AC Power Cord  
UV/Blue Light Filter  
T-Mount Bracket *(sold separately)*  
Color Coded Bands  
Operation Manual  
Warranty Card

*Always examine the unit and accessories for damage before commencing use. Damaged accessories must not be used and must be replaced. Use original Designs for Vision, Inc. parts and accessories only. The use of unapproved parts may void the warranty.*

## Device Diagrams

Your LED DayLite WireLess is designed to be simple and lightweight. It consists of an LED Headlight, Battery Pods and a Charging Cradle. *NOTE: The UV/blue light filter (not shown) comes attached to the LED Headlight, but is removable.* The following diagrams identify each part for your reference in this manual:



## Directions for Use

### Charging the Battery Pods

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Remove the components from the shipping container, checking that all

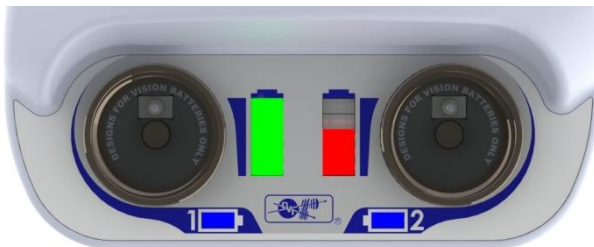
*NOTE: The battery pods need to receive a full charge before initial operation*

parts on the packing list have been received. Carefully remove the headlight, battery pods, charging cradle and AC power cord from the packaging carton.

The charging cradle is designed to meet multi-national regulatory requirements and has multi-input voltage capability to accommodate various line voltages from 100-240 VAC.

The battery pods are to be charged with the supplied charger *only*.

Plug the AC power cord into the charging cradle and connect to an AC outlet. *Note: International plugs are available through Designs for*



**FIG. 3**

Vision; refer to the list of part numbers on page 13. You can now flip the power switch on the back of the charging cradle to turn on the power. You should notice two pulsing **BLUE** lights on the battery indicators, which show that the charging bays are ready to charge (Fig.3). Screw two battery pods **firmly** into the two charging bays all the way down (Fig. 4). The **BLUE** lights should now turn off and **YELLOW** indicator lights should start flashing. Once the charge cycle has begun, the lights will illuminate **RED** and display the current state of charge. When the batteries are finished charging, (approx. 60 mins), the LEDs should all light up **GREEN**. You can now



remove the battery pods from the charging cradle.

## Using the Headlight

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Place the LED headlight onto the t-mount bracket for your frame. Take a charged battery pod and screw it **firmly** down onto the LED headlight. *NOTE: Make sure to remove dust plug before installing battery pod. Do not apply excessive force when installing battery pod.*

Your LED DayLite WireLess uses a capacitive touch switch to control the light. The indicated area shows where you can touch (Fig. 5). Touch the silver band once to activate the light. The light will turn on at its highest intensity. If you touch the band a second time, the light will reduce to medium intensity. The light will deactivate the third time you touch the silver band. *Note: Make sure*





*the capacitive touch sensor is not making contact with other items when in use.*

The LED DayLite Wireless also includes a Low Battery Warning. At approximately five (5) minutes remaining, the headlight will flash three times. This will continue once each minute until the headlight shuts off.

The headlight can be adjusted up and down to align with your point of view. *NOTE: Move only the headlight to make adjustments. Do not grab battery pod to make adjustments to headlight position.*



**FIG. 6**

A UV/blue light filter is provided to prevent premature curing of dental composites. To use, slide the filter over the front of the headlight until

completely seated. Tighten the set screw on the bottom of the filter to properly secure to the headlight. You can now flip the UV/blue light filter in and out of the path of light as required.

## Understanding the Charging Cradle

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Your LED DayLite WireLess comes with a rapid-charge smart battery monitoring system. This feature will check the health of your battery as well as indicate when it needs to be replaced. The Battery Status indicators can display messages according to the following chart:

Battery Status	Message
Blue	POWER ON
Yellow	WAITING TO CHARGE
Red	REPLACE BATTERY
Orange	BATTERY OVERHEAT

- **POWER ON:** Indicates that power is on to the charging bay
- **WAITING TO CHARGE:** Indicates that the charge cycle is preparing to start (*NOTE: Typical charge prep is 5 seconds*)
- **REPLACE BATTERY:** Indicates an error with the battery pod.  
Remove from charging bay and reinstall. If the error continues, discard the battery pod

- **BATTERY OVERHEAT:** Indicates an overheat condition on the battery. Make sure the charger is in a cool location. If the error continues, discard the battery pod

*NOTE: Never use a battery pod that continuously gives Replace Battery and/or Battery Overheat indications. Discard in accordance with all regulations and contact Designs for Vision, Inc. for a replacement.*

## Inspection and Preventative Maintenance

- Clean lenses with a standard glass cleaner and a soft, lint-free cloth, making sure not to scratch the surface. It is recommended for disinfection that all the exposed plastic sections of the headlight be wiped with Lysol IC surface disinfectant/cleaner or an equivalent plastic-safe cleaner. *Note: Do not use alcohol, phenol, ammonia or iodine complex solutions*
- Wipe the sections rather than spraying onto plastic parts. *Note: Do not let liquids enter openings or ports. Do not immerse parts in solutions. Using solutions other than recommended may void warranty. Allowing liquids to enter openings or ports may void*

warranty.

- Battery Pods should be replaced every 12 months to ensure proper operation

*NOTE: Do not Autoclave*

*NOTE: For indoor use only*




*NOTE: Disposal of the equipment and the accessories at the end of their useful lives should be in accordance with all national and local regulations*

*NOTE: If the equipment is used in a manner not specified by Designs for Vision, Inc., the protection provided by the equipment may be impaired*

## Plug and Cord Sets

United States Plug & Cord Set	4706-0000-0038
European Plug & Cord Set	4706-0000-0030
Australian Plug & Cord Set	4706-0000-0032
South African & Indian Plug & Cord Set	4706-0000-0033
English Fused Plug & Cord Set	4706-0000-0034
Japanese Plug & Cord Set	4706-0000-0037

## Description of Various Symbols

	<i>ATTENTION: CONSULT ACCOMPANYING DOCUMENTS</i>
	<i>INDICATES CONFORMITY OF THE PRODUCT WITH MDD 93/42/EEC ANNEX VII</i>
	<i>INDICATES WHERE THE UNIT CAN BE TURNED ON AND OFF</i>

## Specifications

<p><b>POWER REQUIREMENTS</b>          Designs for Vision, Inc.®          LED DayLite® WireLess™          Model Number: DVI-WRLS          Charger Model Number: SMT-CH</p>	<p>Battery Power :          3.7VDC, 700mAh          1 Cell 16340 Li-Ion Battery</p> <p>For Charging :          Input : 100-240VAC, 50/60 Hz, 0.3A rms          Output : 4.2VDC, 1.0A max</p>
<p><b>ILLUMINATION</b>          At 12" measured with a cosine corrected light meter</p>	<p>40,000 lux ± 5%</p>
<p><b>OVERCURRENT PROTECTION</b></p>	<p>Resettable Polyfuse/One-Time AC Fuse</p>
<p><b>ENVIRONMENTAL OPERATING CONDITIONS:</b></p> <p>TEMPERATURE:          RELATIVE HUMIDITY:          ATMOSPHERIC PRESSURE:</p>	<p>10°C to 40°C          30% to 75%          700 to 1060 hPa</p>
<p><b>STORAGE &amp; SHIPPING</b></p> <p>TEMPERATURE:          RELATIVE HUMIDITY:</p>	<p>-20°C to 40°C          10% to 90%</p>
<p><b>DIMENSIONS:</b></p> <p>LED HEADLIGHT W/BATTERY POD:          WEIGHT:          CHARGING CRADLE:          WEIGHT:</p>	<p>1.80" x 0.90" x 2.75"          1.45 oz.          3.63" x 3.75" x 1.50"          8.35 oz.</p>

APPROVALS:	UL 61010-1: 2012 CAN/CSA C22.2#61010-1: 2012 IEC 61010-1:2010 UL 1310:2011 CAN/CSA C22.2#107.1:2001 EN 60335-1:2012 EN 60335-2-29:2004
PATENTS:	US PAT. 8,851,709 US PAT. 8,215,791 US PAT. 7,690,806 B2 US PAT. D600,728 US PAT. D589,545

## Warranty

The LED DayLite WireLess Headlight is warranted against imperfections, defects in materials, and workmanship for four years. The charging cradle is warranted for two years and the lithium-ion battery pods are warranted for one year.



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