



LED DayLite[®] WireLess[™] Mini

HDi[™]

High Definition
Imaging



User Guide

Ver. 12-25

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Indications for Use

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

Device Description

The Designs for Vision[®] LED DayLite[®] WireLess[™] Mini 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 29,000 lux. The unit can run on battery power for approx. 90 minutes before needing to be recharged.

The LED DayLite[®] WireLess[™] Mini consists of the following:

- HDi[™] WireLess[™] Mini Headlight or
WireLess[™] Mini Headlight
- Color Coded Li-Ion Batteries (3)

Smart Charging Cradle
USB Power Supply
USB Power Cord
UV/Blue Light Filter
Hex Drivers (2)
T-Mount Bracket (*additional sold separately*)
Operation Manual

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

HDi[™]
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FIG. 1



Directions for Use

Charging the Batteries

Remove the components from the shipping container,

NOTE: The batteries need to receive a full charge before initial operation

checking that all parts on the packing list have been received. Carefully remove the headlight, li-ion batteries, charging cradle, USB power supply and cord from the packaging carton.

The USB power supply is designed to meet multi-national regulatory requirements and has multi-input voltage

capability to accommodate various line voltages from 100-240 VAC. The li-ion batteries are to be charged with the supplied charger *only*.



FIG. 2

Plug the USB power cord into the back of the charging cradle and connect the other end to the USB power supply. Connect to an available AC outlet. *Note: International adapters are available through Designs for Vision; refer to the list on page 16.* The two screens should turn on and display “NC” for Not Charging (Fig.2). This indicates that the charging bays are ready to charge.



FIG. 3

Place two of the supplied li-ion batteries into the charging bays as shown, being careful to insert them the proper direction (Fig. 3). The charger will now enter rapid charge mode. The two screens indicate the status of the charge (See

Understanding the Charging Cradle for further information).

When the batteries are finished charging, (approx. 60 mins), the display should show 100%. You can now remove the batteries from the charging cradle.

Using the Headlight

Place the HDi™ WireLess Mini headlight onto the t-mount bracket for your frame. Unscrew the battery cap from the headlight. Take a charged battery and slide it down into the opening (*Fig. 4*), making sure to place the positive end in first. Replace the cap. The light will activate once fully closed. Loosen the cap to deactivate the light. *NOTE: Do not apply excessive force when installing battery cap.*



FIG. 4

The headlight can be adjusted up and down to align with your point of view. The headlight can then be locked into that position using the provided driver. Locate the hex in the locking shaft of the headlight (*Fig. 5*).



Place the driver into this opening and turn clockwise to tighten the shaft. To unlock the position, loosen the shaft by turning counter-clockwise. *NOTE: The shaft will only turn a limited distance. Do not force in either direction.* A UV/blue light filter is provided to prevent premature curing of

FIG. 6



dental composites. To use, slide the filter over the front of the headlight until completely seated (*Fig. 6*). Using the supplied tool, 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

Your LED DayLite WireLess Mini comes with a smart, rapid battery charger. It will allow you to recognize when your battery needs to be replaced. The LED screens indicate several specifications according to the chart below (*Fig. 7*):

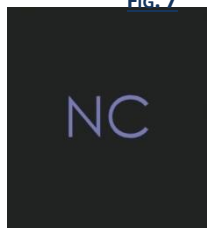


STATE OF CHARGE

BATTERY VOLTAGE

ELAPSED TIME

FIG. 7



- **STATE OF CHARGE:** Indicates the charge level of the battery. When the level reaches 99%, the battery can be removed
- **BATTERY VOLTAGE:** Indicates the voltage level of the battery
- **ELAPSED TIME:** Indicates the total time of the recharge cycle
- **NC - NOT CHARGING:** Indicates the charging bay is empty and ready to charge a battery

NOTE: Battery voltage can vary from 2.7-4.2v. A battery that does not reach more than 3.4v after charge should be replaced. Contact Designs for Vision, Inc. for ordering a replacement.

NOTE: Tension de la batterie peut varier de 2,7-4.2V. Une batterie qui n'atteint pas plus de 3, 4V après que frais devraient être remplacés. Contactez Designs pour Vision, Inc., exigibles pour le remplacement.

NOTE: Discard batteries in accordance with all regulations and contact Designs for Vision, Inc. for a replacement.

REMARQUE: Jeter les piles en respectant les lois et contactez Designs pour Vision, Inc. pour un remplacement.

NOTE: For use with rechargeable 10440 lithium ion batteries only. Do not insert non-rechargeable batteries.

NOTE: Pour une utilisation avec accus 10440 batteries lithium-ion seulement. Ne pas insérer les piles non rechargeables.

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.*
- Batteries should be replaced every 12 months to ensure proper operation


Important Safety Instructions


Instructions Importantes Concernant La Sécurité


 **NOTE:** *Save these instructions. This manual contains important safety and operating instructions*


 **NOTE:** *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.*


 **NOTE:** To reduce the risk of battery explosion, follow these instructions and those marked on the battery


 **NOTE:** Study all battery manufacturer's specific precautions such as removing or not removing cell caps while charging and recommended rates of charge

 **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





 **NOTE:** Any serious incident that has occurred in relation to the device should be reported to the manufacturer and the competent authority of the Member State in which the user and/or patient is established.




Plug Adapter Kit

The following adapters are included in the Plug Adapter Kit:

United State Adapter	4903-0001-2019
European Adapter	4903-0001-2019
Australian Adapter	4903-0001-2019
English Fused Adapter	4903-0001-2019

Description of Various Symbols

	<i>ATTENTION: CONSULT ACCOMPANYING DOCUMENTS</i>
	<i>CAUTION HOT SURFACE</i>
	<i>INDICATES CONFORMITY WITH MDD 93/42/EEC ANNEX VII/MDR2017</i>
	<i>HEADLIGHT ON</i>

	<p><i>HEADLIGHT OFF</i></p>		
	<p><i>READ ACCOMPANYING DOCUMENTS</i></p>		
	<p><i>MANUFACTURER</i></p>		
<table border="1"> <tr> <td data-bbox="146 593 221 635">EC</td> <td data-bbox="221 593 325 635">REP</td> </tr> </table>	EC	REP	<p><i>EUROPEAN DISTRUBUTOR</i></p>
EC	REP		

Specifications

POWER REQUIREMENTS Designs for Vision, Inc.® LED DayLite® WireLess™ Mini Model Number: DVI-WRLSM Charger Model Number: SMT-CHM	Battery Power : 3.7VDC, 350mAh 10440 Li-Ion Batteries For Charging : Input : 100-240VAC, 50/60 Hz, 1.0A Output : 4.2VDC, 1.0A max
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ILLUMINATION At 12" measured with a cosine corrected light meter	29,000 lux \pm 7%
OVERCURRENT PROTECTION	Resettable Poly Fuse/One-Time AC Fuse
ENVIRONMENTAL OPERATING CONDITIONS: TEMPERATURE: RELATIVE HUMIDITY: ATMOSPHERIC PRESSURE:	10°C to 40°C 30% to 75% 700 to 1060 hPa
STORAGE & SHIPPING TEMPERATURE: RELATIVE HUMIDITY:	-20°C to 40°C 10% to 90%
DIMENSIONS: LED HEADLIGHT: WEIGHT: CHARGING CRADLE: WEIGHT:	2.00" x 0.75" x 1.55" 1.00 oz. 2.80" x 2.38" x 1.30" 2.00 oz.
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 PATS. 8,851,709; 8,215,791; 7,690,806 B2; D600,728; D589,545

Warranty

The LED DayLite HDi WireLess Mini 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 batteries are warranted for one year.



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Outside the US-Call Local Distributor



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