

REALITY

The information source for esthetic dentistry

2017

FirstLook



LED DayLite Micro

Designs for Vision

www.designsforvision.com

PRICES

\$1,195.00

(with 2 batteries)

\$995.00

(with 1 battery)

WARRANTY

4 years for headlight

2 years for power pack

1 year for power supply
and cables

HEADLIGHTS

While the headlight market is definitely trending toward cordless models, there are still advantages that can only be realized from a corded version. Yes, the cable running from your LED headlight down your back and connecting to the battery pack attached to your belt can be nuisance for sure. And clipping a cord to your back can sometimes restrict your lateral or twisting movement.

But corded models are easier to activate/deactivate, weigh less (headlight itself), provide a higher level of illumination, and have longer battery runtime. With this in mind, Designs for Vision (DVI) has introduced its new corded headlight with a number of nifty features, the most innovative of which is called High Definition Imaging or HDi for short.

According to DVI, HDi presumably utilizes advanced photonic design to create a more uniform distribution of light which, in turn, produces more illumination. More on this later.

Besides HDi, the control/power pack, which of course also contains the lithium ion battery, has its own niceties. In the first place, its weight (with the holster and belt clip) is only 3.2oz/90.7g or just 2.5oz/70.9g by itself. This is lighter than any other control/power pack we have tested. The holster snaps easily onto the control pack. The back of the holster has a circular projection that slides into a channel on the front of the belt clip and locks the control pack securely. The belt clip, attaches via a spring-loaded mechanism and includes a quick release button at the top.

Michael B. Miller, D.D.S. – President/Editor-in-Chief

Ingrid R. Castellanos, C.D. – Vice President/Publisher

Editorial Team: David L. Baird, D.D.S., Bellevue, WA; Robert W. Baker, Jr., D.M.D., Ithaca, NY; Nathan S. Birnbaum, D.D.S., Wellesley, MA; Alan A. Boghosian, D.D.S., Chicago, IL; Matthew Brock, D.D.S., C.A.G.S., M.S.D., Chattanooga, TN; Mitch A. Conditt, D.D.S., Fort Worth, TX; Juliana da Costa, D.D.S., M.S., Portland, OR; Marvin A. Fier, D.D.S., Pomona, NY; Daniel Fortin, D.M.D., M.S., Montreal, Canada; George A. Freedman, D.D.S., Toronto, Ont., Canada; Fay Goldstep, D.D.S., Toronto, Ont., Canada; Gary Henkel, D.D.S., Horsham, PA; David S. Hornbrook, D.D.S., San Diego, CA; Mark E. Jensen, D.D.S., Ph.D., Slidell, LA; Thomas P. Keogh, M.D., D.D.S., Navarra, Spain; Timothy F. Kosinski, M.S., D.D.S., Bingham Farms, MI; So Ran Kwon, D.D.S., M.S., Ph.D., Iowa City, IA; Hannu O. Laamanen, D.D.S., M.S., Turku, Finland; Paul Landman, D.D.S., Chicago, IL; Clarence C. Lindquist, D.D.S., Washington, D.C.; Edward Lynch, M.A., B.D.Sc., Ph.D., Coventry, UK; Hans Malmstrom, D.D.S., Rochester, NY; Sandesh Mayekar, M.D.S., Mumbai, India; Steven McGowan, C.D.T., Seattle, WA; Michael K. McGuire, D.D.S., Houston, TX; Aikaterini Papathanasiou, D.D.S., Boston, MA; Christopher Pescatore, D.M.D., Danville, CA; Stephen D. Poss, D.D.S., Brentwood, TN; Robert G. Ritter, D.M.D., Juniper, FL; Andrew T. Shannon, D.D.S., Vancouver, BC, Canada; Liviu Steier, D.M.D., Mayen, Germany; Franklin Tay, B.D.Sc.(Hons), Ph.D., Augusta, GA; Marcos A. Vargas, D.D.S., M.S., Iowa City, IA; Charles Wakefield, D.D.S., Dallas, TX; Thomas G. Wilson, Jr., D.D.S., Dallas, TX; David Winkler, D.D.S., Windsor Berks, England.



A publication member of the
American Association of Dental Editors

Second, it is stated to provide up to 10 hours of run-time, which in most cases, means you would not have to change out the control pack at all during a typical day of treating patients. However, we found using it on high power, it ran for 5 hours, which is still very impressive for such a small unit. On low power, it would probably run longer, maybe even approaching the 10 hours claimed by DVI, but if you purchase the system with two power packs, which we feel is a good idea regardless, replacing a dead one with a fully charged pack can be done quickly and easily.

From a design standpoint, the control pack has a cylinder profile with the back side flat so it fits securely in the black plastic holster. On the front curved surface close to the top end is the power button, which is easily located and illuminated when activated. Speaking of activation, push it once and high power comes alive. A second tap reveals low power. And a third push turns the light off. Nothing fancy, but very functional.



The top end has the conventional USB port for the cable running to the headlight and the mini-USB port for the charger. There is also the battery status light, which starts out green on the full charge, then gradually turns yellow, intensifying into orange during use, and finally red when the battery is out of juice.

The headlight is supposed to flash three times when there is about 10 minutes of power remaining. This signal is stated to repeat at 5 minutes of remaining power, while we found this signal came at about 4 minutes before it goes dark. When you have only 30 seconds of power remaining, the headlight flashes continuously along with the flashing red indicator light on the control pack. There is no way you can ignore the flashing headlight, which gives you more than adequate time to switch power packs.

The blue-clad cable from the control pack is very lightweight, only 2.6mm in diameter, and about 4.2ft/1.3m. One end, as noted previously, has a conventional USB connector that inserts into the control pack, while the other end has a mini-USB connector plugging into the headlight.

The headlight itself weighs about 0.6oz/16.0g (with light filter) and measures 20.6mm in diameter. These parameters are on par with other similar products.

The high power setting is stated to emit 60,000 lux, whereas we found it to be 43,000 lux. The low power is stated to emit 34,000 lux, whereas we found it to be 24,300 lux. Our power readings typically are lower than those from manufacturers since we use different parameters for our tests. Nevertheless, these two power levels should satisfy the illumination needs of most operators. As a matter of fact, the high power is higher than any other small headlight we have ever tested.

The charger port is a simple square that plugs into a wall socket and has the USB port in the middle of the front surface. Again, nothing extraordinary, but functions in a utilitarian manner. We found recharging time for a spent battery to be about 5 hours, but you will probably be charging it overnight.



So what about the HDi feature? The shape of the beam is still square, but unlike most LED headlights that have diffuse borders, HDi technology produces a more distinct, focused beam. From a clinical perspective, the more uniform beam should provide more effective illumination, but our full evaluation will have to verify that premise.

The light beam itself is still quite white and is stated to be 5800° K, which makes it reasonably color corrected. The curing filter is similar to that used for other DVI headlights, rotating over the aperture via a single pivot point. The size of the spot at 14.0in/35.6cm is about 2.6in/6.7cm, which is similar to other small headlights.

The directions are in a small, plain paper booklet with numerous color photos. Information is reasonably straightforward and easy to understand.

The DayLite LED Micro is a strong entry in this category. It has exemplary power, simple controls, enough battery power to get you through most mornings or

afternoons even on high power, and of course, more uniform illumination than other headlights. If you don't need more than two power levels, it could be the best of the corded bunch right now.



**To become a member of REALITY,
please visit our Web site at www.realityesthetics.com.**

NO COMMERCIALIZATION POLICY

We accept no advertising and are not beholden to any commercial interest. Product evaluations and ratings are intended only to guide our readers to make wise and informed purchases. The unauthorized use of product evaluations and ratings in advertising or for any other commercial purpose is strictly forbidden.

REALITY (ISSN#1041-8253) is an online and print information service from **REALITY** Publishing Company, 11757 Katy Frwy., Suite 210, Houston, TX 77079-1717, U.S.A., 800-544-4999, 281-558-9101, Fax 281-493-1558. A one-year membership includes access to the online database plus nine PDF issues of **REALITY NOW**. Call for membership and publication rates or access our Web site for enrollment information. Payments by check must be in U.S. funds drawn on a U.S. bank, or by Visa, MasterCard, or American Express. All rights reserved. No part of **REALITY** or **REALITY NOW** may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying, recording, or by any information storage and retrieval system without the written permission of the Publisher, except where permitted by law. Copyright ©2017 by **REALITY** Publishing Company. GST #898-896-659. POSTMASTER: Send address changes to **REALITY** Publishing Company, 11757 Katy Frwy., Suite 210, Houston, TX 77079-1752.

DESIGNS
FOR VISION
introduces

HDiTM

High Definition
Imaging



without HDi



with HDi

NEW HIGH DEFINITION IMAGING - HDi

Advanced photonic design perfectly images LED
for uniform light distribution with 45% more light



LED DayLite® **WireLess** MiniTM

TOTALLY WIRELESS HEADLIGHT -
no wires, no battery pack

MODULAR DESIGN - uncoupled from a
specific pair of loupes. Can be worn on
your choice of eyewear.

WEIGHS 1 oz.

27,000 LUX INTENSITY

NOW AVAILABLE WITH
HDi technology



READ THE REVIEW:



FirstLook 2017

LED DayLite® **WireLess Mini with HDi**
review of the addition of the NEW HDi technology

DesignsForVision.com/Reality/2017WLminiHDi.pdf

