stomdevice

DentLight

USER AND SERVICE MANUAL

Nano Loupe Light

(Rev. 2.0)



⚠ For medical professional use only!
U.S. Federal Law restricts this device to sale
by or on the order of a licensed medical professional.

Made in USA

CE

1/2013, v2.0

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1. DESCRIPTION AND INDICATIONS FOR USE

Thank you for choosing **DentLight!**

Your Nano LED Loupe Light is engineered to best meet the demand of the smallest and toughest professional portable lighting solutions which require a small homogenous and well-defined spot in the dental office, physician's office, hospital, or emergency environment for any procedures. These operating instructions provide recommendations and guidelines for the intended use of the light. Please read them carefully.

2. PARTS

Nano Loupe Light (Rev. 2) consists of Nano Headlamp with Teflon wire – the Industry's thinnest, most durable and the easiest to manage cord, Rechargeable Battery Pack(s), Battery Pouch, Composite Filter, Power Adapter, and a user's choice of light Mounting Adapter:

	Qty	Description
1)	1	Nano Headlamp
2)	1	Clip-on Composite Filter
3)	1	Composite Filter Flip Paddle
4)	1	Wire Wrap
5)	1	Wire Clip
6)	1	Articulating Arm*
7)	1	L-Adapter *
8)	1	Universal Clip-on Adapter *
9)	1	Battery Pouch
10)	2	Rechargeable Battery Packs **
11)	1	Universal Power Adapter
12)	1	Mounting Plate ***
13)	1	U-Adapter ***
14)	1	Y-Adapter ***
15)	1	User and Service Manual



* Default Mounting Adapter parts.

****** One battery for **Nano Economy Kit.**

*** Optional custom order mounting adapter/accessory overrides the default adapter.

3. SET UP

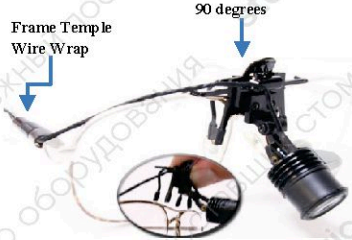
Take out custom brand logo plate/custom fixture in the center of the frame. Cross reference loupes/glass frame. Assemble light using the ordered mounting adapter at the frame center for line-of-sight illumination:

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a) Universal Clip-on Adapter (default kit)

Adapter	Brandname	Model	Frame
UNIVERSAL	Prescription or Safety		Glasses
	DFV	Designer	Titanium
	Sandy Grend	TTL	Titanium
	Any brands		**Flat frames**

Press thumb and index finger on the top front and back flanges to open the spring-loaded Clip-on. Slide into frame center then release for secure grip on the frame. Route wire by bending the Teflon wire 90 degrees at both the center of the frame and temple/frame junction. Use Wire Wrap to secure wire on the Frame Temple.



b) L-Adapter

Screw on L-adapter at the center of the frame using screws and/or mounting plate/nut:

1) Orascoptic Rudy
2) Zeiss EyeMag Pro
3) Orascoptic Titanium (with back mounting plate)
4) Surgitel Titanium (with hex nut)

Optimize line of sight with optional cascading Articulating Arms.

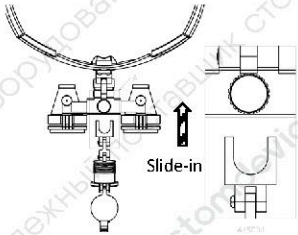


Adapter	Brand	Model	Frame	Mounting
L	Orascoptic	Rydon, RaveX, Revolution, Standard	Rudy Project Titanium	2 screws direct
	Zeiss	EyeMag Pro		2 screws direct
	PeriOptix	Ultralight		2 screws direct
	Surgitel	Ergo, Aero	Titanium	1 screw/nut
	Heine	HR-C		1 screw direct

c) U-Adapter

Adapter	Brand	Model	Frame
U	Orascoptic	Any frame	LEGACY
	Surgitlel	FLM	Anyframe
	PeriOptix	Any frame	LEGACY, PANORAMIC, Prismatics
	Rose Micro	Any frame	Flipup
	Sheervision	FLIP-UP	Any frame
	Keeler		Flipup

Slide-in U-Adapter to the middle of the flip-up bar.



d) Y-Adapter

Y adapter mounts to **curved frame** with center thickness from 4 to 10 mm with variable center gap. It comes with the corresponding number of Articulating Arms to fit onto your custom loupes. OPEN THE VARIABLE CENTER WIDTH enough to slide into the frame center bridge from the direction as shown in the illustration below. Tighten adjustment screw to fix it for secure mount.

Adapter	Brandname	Model	Frame	# of Arms
Y	DFV	Yoeman	Aluminum	0
	DFV	Skylon, Skyview, Sports	Nike	2
	Surgitlel	Half Jacket, Radar	Oakley	
	DFV	Pounce, Revolve,	Nike	0
	Zeiss	Smart		
	Heine	HR 2.5 and HRP		
	PeriOptix	Adivista	Adidas	2
	Sheervision	Under Armour	Plastic	
	Orascoptic	Suby	Rudy Project	
	Sheervision	Del Rey	Plastic	

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DFV Yoeman | Surgitel Oakley | DFV Nike





WIRING:

Route Teflon wire by bending in any angles for most comfort. Use spiral Wire Wrap to attach lamp cord to frame temple/leg. Use Wire Clip to fix the cord on the collar of scrub. Plug Nano Headlamp cord to the female receptor in the middle of Battery Pack. Place Battery Pack on the belt/scrub using swivel clip on the Battery Pouch to route cord to minimum tension. Alternatively, place Battery Pack with Armband or slide in the scrub pocket.



COMPOSITE FILTER:

Hold the composite filter clip above the ledge rim close to the front of the headlamp housing. Snap the clip onto the rim for a secure fit.



RUN: Turn on Nano by pressing the raised ON/OFF button. Adjust power levels by pressing up (+) or down (-) button. Turn off anytime by pressing the ON/OFF button again.

At low battery, alarm indicator turns red together with warning sound. To recharge, simply plug in Power Adapter cord to Battery Pack male jack connector. The battery charge indicator is green while charging and turns off when fully charged.



TIPS

Connection – Ensure good connections and route cord to minimum stress.

Battery – Charge Battery Pack while not in use and interchange between two Battery Packs. Use Dual Battery Charging Base (optional) to recharge Battery Packs all the time.

Uninterrupted Run – Plug in Power Adapter cord at low battery warning to run nonstop.

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SAFTEY PRECAUTIONS

a) Do not touch and open any electronics parts and circuit boards. **Warranty void if seal broken.**

b) Do not immerse headlamp in waters or solutions. Warranty void in case of liquid damage.

c) Do not look directly at the light emitted from this unit. Eye injury may result.

d) Do not use at distances closer than 10in for extended periods of time.

e) Heatsink (metal ring) end of LED Headlamp will be hot when in use for extended period of time at Level III. Do not touch with bare skin.

f) Charge batteries while not in use to extend the lifetime of the rechargeable battery.
   - Do not short circuit battery.
   - Do not store above 60°C (140°F).
   - Dispose of unserviceable batteries and curing lights according to the national rules and regulations. Batteries must not be incinerated.

4. CLEANING/DISINFECTING

g) Thoroughly wipe off headlamp and battery pack with cleaning solution or soap and water. Do not spray. Disinfecting agents must not enter openings on unit.

h) Clean lens using Q-tips slightly damped (do not soak) with isopropyl alcohol.

i) Always safeguard opening areas against moisture as this may cause electrical short-circuit or dangerous malfunction.

5. TECHNICAL DETAILS

Power Adapter	Universal 100-240 V (50-60Hz)
Voltage	Regulated 5V DC
Lamp	High Power 50000 hr LEDs
Color Temperature	5000 – 7000 K
Intensity	Level I: 16000 lux Level II: 31000 lux Level III: 45000 lux All at 14inch distance
Beam Size	2.5 inch at 14inch distance
Operation	Continuous with intermittent loading. Stop automatically at low battery with warning signal. Optional corded operation to simultaneously power headlamp and recharge battery
Battery	Poly Lithium Ion. Recharging time 2-2.5 hrs. LED indicator green during charging and dark when fully charged. Each full charge

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	provides 2.0-6hrs/battery.
Fuse	Internal to LED lamp electronics and battery overheat, under voltage and overcurrent protection
Operating Temperature	0-30 °C
Storage	-10 – 40 °C
Weight	6 grams (headlamp itself), 87 grams (battery pack)
Dimension	18 mm diameter (headlamp), 45x76x15mm (battery pack)

6. LIMITED ONE-YEAR WARRANTY

Register your **Nano** at www.dentlight.com. DentLight Inc. extends a one-year warranty against defects in material and workmanship to the original purchaser of this product from an Authorized dealer. This warranty is valid providing factory inspection indicates that any such defect developed during normal and proper use. DentLight shall under no circumstances be liable for incidental, special, consequential damages and damage from misuse including the following expressed or implied:

- Improper operation, accident or neglect, misuse or abuse, such as physical damage (drop, dents, cracks, scratches, etc.);
- Liquid, water, rain, extreme humidity, ultrasonic, autoclaving;
- Improper repairs or modifications that have not been carried out by a certified Service Center;
- Use of other spare parts and accessories than from the manufacturer such as power adapter;
- Other acts which are not the faults of DentLight.

In case of a warranty claim, the complete apparatus must be returned, carriage paid, to your dealer or directly to DentLight. Call 1-800-763-6901 to obtain RMA number then fill out RMA form online with an approved RMA number.

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7. REORDER AND OPTIONAL ITEM CODES

PN	Description	PN	Description
8600110	Nano Full Kit	8700100	Universal Clip-on and L-adapter Combo Adapter
8600111	Nano Economy Kit	8700110	Universal UB Adapter
8600020	Nano Headlamp	8500027	Metal Mounting Plate
8600030	Battery Pack	8600022	Composite Filter
8500040	Power Adapter	8500025	Battery Pouch
8500021	U-adapter	8501110	Dual Charging Stand
8500024	L-adapter	8500055	Sports Frame Safety Goggle
8500028	Y-adapter	8500023	Universal Economy Headgear
8510120	Articulating Arm	8500123	Universal Premium Headgear

	Manufacturer
	European Authorized Representative
SN	Serial Number
REF	Catalogue Number
	Date of Manufacture
	Caution, Consult Accompanying Documents



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