



LED DayLite® HDi™

SURGICAL

USER GUIDE
Model: DVI-LEDSC
Ver. 5.26 (En)

DESIGNS FOR VISION, INC. LED DAYLITE® HDI™

The Designs for Vision LED DayLite® HDi™ Headlights provide bright, portable light to the surgical environment. They are designed to be comfortable yet functional. The headlights are made to clip onto a wide variety of frames and/or headsets.

INDICATIONS FOR USE

The Designs for Vision LED DayLite® HDi™ is an illumination device used to aid in visualization for medical professionals. It is intended to illuminate various tissues and/or body parts. This device is intended to be used by medical professionals, requiring no specific training other than what is contained in this manual.

CONTRAINDICATIONS

None known

WARNINGS



Save these instructions. This manual contains important safety and operating instructions



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.

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

Do not Autoclave

For indoor use only

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

A spent battery should not be used. Contact Designs for Vision Inc. for ordering a replacement

Replace with Designs for Vision, Inc. battery only. Using unapproved batteries may not work and will void the warranty



This equipment and accessories do not contain serviceable parts. All repairs need to be conducted by Designs for Vision, Inc. service personnel

Do not let liquids enter openings or ports. Do not immerse parts in solutions. Allowing liquids to enter openings or ports may void warranty.

Equipment not suitable for use in the presence of a flammable anesthetic mixture with air or in an oxygen rich environment

Care must be taken when operating this equipment around other equipment to avoid reciprocal interference. Potential electromagnetic or other interference could occur to this or to the other equipment. Try to minimize this interference by not using other equipment in conjunction with this device

No modification of this equipment is allowed. Performing unauthorized modification on the equipment, accessories or the product labelling may void the warranty

Remove battery from power pack if this device is not in use and will be stored for some time. Maintain storage at environmental conditions listed below



Improper use of battery may cause them to get hot, ignite or explode. Always follow all safety precautions listed in this manual

Never make changes or modifications to the battery pack

Do not short circuit

Do not expose to fire

When replacing battery, be careful to not crimp or crush wires inside of power pack

Protect battery from fluids and damp environments

Charge batteries with supplied charger only



Waste of electrical and electronic equipment must not be disposed as unsorted municipal waste. It must be collected separately, and

*must be disposed as per local regulations -
RoHS 3 (EU 2015/863)*



*Do not use within 8 inches of electrocautery
devices to maintain proper function*



*Always use a cloth to clean/disinfect
products*



*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.*



**Before using your headlights/power pack
make sure to charge the power packs**

SPECIFICATIONS

LED DayLite® HDi™		Model Number: DVI-LEDSC
POWER REQUIREMENTS		
Battery Power : 7.4VDC, 3.5Ah 18650 Li-Ion For Charging : ^{A)} Cell-Con Charger Model 2240 Input : 100-240VAC, 50/60 Hz, .35A Output : 8.4 VDC, 1.3A max		
ILLUMINATION		<i>Measured with a cosine corrected light meter</i>
At 12" UltraMini® HDi™:	High	55,000 lux ± 10%
	Low	34,000 lux ± 10%
At 12" UltraMini® PS:	High	40,000 lux ± 7%
	Low	24,000 lux ± 10%
At 13" USB DayLite®/DayLite® HDi™:	High	100,000 lux ± 7%
	Low	88,000 lux ± 10%
At 16" TwinBeam®/TwinBeam® HDi™:	High	140,000 lux ± 7%
	Low	125,000 lux ± 10%
At 12" UltraMini HDi™ REVEAL:	High	4280 lux ± 7%
	Low	3800 lux ± 10%

RUNTIME		<i>Measured with a fully charged battery</i>
UltraMini® HDi™/UltraMini® PS/ReVeal:	High	10 hours +/-10%
	Low	19 hours +/-10%
USB DayLite®/DayLite® HDi™:	High	6.5 hours +/-10%
	Low	9 hours +/-10%

TwinBeam®/TwinBeam® HDi™:	High	4 hours +/-10%
	Low	5 hours +/-10%
DIMENSIONS		
POWER PACK:	3.60" x 1.95" x .95"	
WEIGHT:	4.9 oz.	
USB DayLite® HEADLIGHT:	1.15" Dia. x 1.53"	
WEIGHT:	.95 oz.	
DayLite® HDi™ HEADLIGHT:	1.15" Dia. x 1.76"	
WEIGHT:	1 oz.	
UltraMini® HDi™ /PS HEADLIGHT:	.78" Dia. x 1.27"	
WEIGHT:	.50 oz.	
TwinBeam® HEADLIGHT:	11.00" x 7.50" x 6.00"	
WEIGHT:	15.2 oz.	
TwinBeam® HDi™ HEADLIGHT:	2.62" x 1.56" x 1.62"	
WEIGHT:	2.9 oz.	

- A) External charger provided with an approved detachable power supply cord which can be easily and safely remove from supply mains

TRANSPORT & STORAGE	
TEMPERATURE:	-40°C to 70°C
RELATIVE HUMIDITY:	10% to 100% including condensation
ATMOSPHERIC PRESSURE:	500 to 1060 hPa
ENVIRONMENTAL OPERATING CONDITIONS	
TEMPERATURE:	10°C to 40°C
RELATIVE HUMIDITY:	30% to 75%
ATMOSPHERIC PRESSURE:	700 to 1060 hPa
APPROVALS	
IEC 60601-1, IEC 60601-1-2, Class A, CISPR 11, IEC 62133, IEC 62366-1	
EQUIPMENT CLASS:	 Class II
INGRESS OF WATER:	IPX0 (ordinary equipment)
MODE OF OPERATION:	Continuous
PROTECTION FROM SHOCK:	NO APPLIED PARTS
OVERCURRENT PROTECTION	Firmware Controlled Protection
METHODS OF STERILIZATION:	Not Intended to be Sterilized
OXYGEN RICH ENVIRONMENT:	Not Intended for Oxygen Rich Environments
PATENTS:	8,851,709; 8,215,791; 7,690,806 HDi™

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DEVICE DESCRIPTION

The UltraMini® HDi™ generates a 3" spot of light at a 12-inch working distance with up to 55,000 lux. The UltraMini® PS generates a 3.5" spot of light at a 12-inch working distance with up to 40,000 lux. Both lights have up to 11-hour battery runtime. The USB DayLite® and DayLite® HDi™ generate a 2¼" spot of light at a 13-inch working distance with up to 100,000 lux and 9-hour battery runtime. All four lights have a correlated color temperature of 5800K.

The TwinBeam® HDi™ generates a 2¾" spot of light at a 16-inch working distance. The light has a correlated color temperature of 5800K and a light intensity of up to 140,000 lux. The headlights can run on each battery pack for up to 5 hours

The LED DayLite® HDi™ includes these main components:

- Power Pack LEDSC
- Desktop Charger w/Power Cord
- UltraMini® HDi™ Headlight, or
- UltraMini® PS Headlight, or
- USB DayLite® Headlight, or
- DayLite® HDi™ Headlight, or
- USB TwinBeam® Headlight, or
- TwinBeam® HDi™ Headlight

Accessories include:

- Two Holsters w/Belt Clips
- Hex Drivers
- Cable Wrap Kit
- Operation Manual
- Registration Card
- T-Mount Bracket (*sold separately*)
- Headset (*sold separately*)
- Carrying Case (*if equipped*)

DIRECTIONS FOR USE

LED DAYLITE® HDI™ INITIAL SETUP AND CHARGING

Remove the components from the shipping container, checking that all parts on the packing

FIG. 1



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

list have been received. Carefully remove the headlight, power pack(s), desktop charger and charger cord from the packaging carton. The desktop charger is designed to meet multi-national regulatory requirements and has multi-input voltage capability to accommodate various line voltages from 100-240 VAC. The unit is to be charged with the supplied charger only.

Plug the cord into the jack connector on the front of the power pack (Fig. 1).

Plug the power cord into the charger and connect the desktop charger to the AC outlet. *NOTE: International cords are available through Designs for Vision; refer to the list on page 28.*

The power button light will start pulsing to indicate the unit is in “Smart Charge” mode.

The status indicator (Fig. 2) will display the current state of charge. The LED will change colors as the battery charges; going from **RED** to **ORANGE** to **GREEN**. When the power button light remains steady, the unit is fully charged.

FIG. 2



You can now disconnect the cord from the power pack to run on battery. The belt clip on the rear of the holster will allow you to carry it around with you.

HOLSTER OPERATION

In addition to the holsters, Ratcheting Belt Clips have been included to allow for a full 360° rotation of the unit, even while it is attached to you. To place the belt clip on to the holster, simply slide it up over the raised circular ratchet disk until an audible 'click' is heard (*Fig. 3*). The clip on the back of the leather case is designed to clip onto a belt.

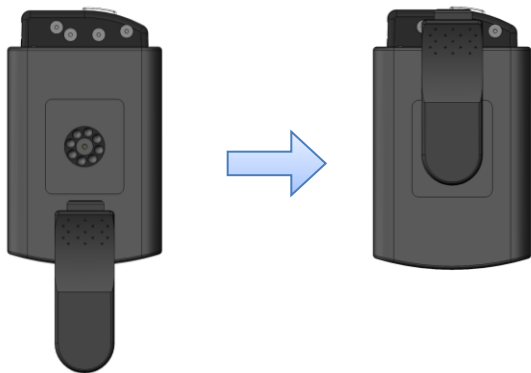


FIG. 3

Squeeze the clip together to open. Arrow A (*Fig. 4*) shows where to press. The power pack can rotate to your desired position.

Each increment is followed by an audible click. To remove the power pack from the clip, depress the button on the top of the belt clip while pulling up on the power pack, which is shown by arrow B (*Fig. 4*).

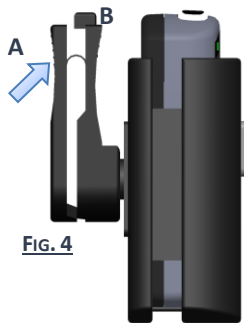


FIG. 4

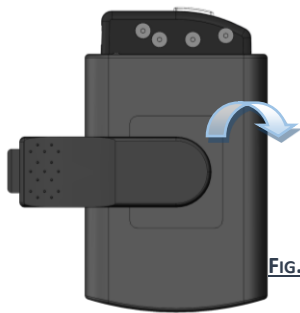


FIG. 5

NOTE: Make sure power pack is properly seated before commencing use.

UNDERSTANDING THE STATUS INDICATOR

The LED DayLite® HDi™ incorporates an advanced status monitoring system. The following table describes what each indication signifies:

	SOLID GREEN: FULLY CHARGED BATTERY
	SOLID/PULSING RED: LOW BATTERY
	FAST BLINK RED: GENERAL ERROR. PLEASE CONTACT DESIGNS FOR VISION, INC. FOR FURTHER ASSISTANCE
	SLOW BLINK RED: BATTERY SPENT. PLEASE CONTACT DESIGNS FOR VISION, INC. FOR FURTHER ASSISTANCE

NOTE: A spent battery should not be used. Contact Designs for Vision Inc. for ordering a replacement.

The LED DayLite® HDi™ also incorporates a Low Battery Warning system. With approximately ten (10) minutes of battery power remaining, the headlight will flash three times. At five (5) minutes remaining, the headlight will flash another three times. At 30 (thirty) seconds remaining, the headlight will flash continually until the battery is completely depleted.

REPLACING THE BATTERY

At the end of its useful life, the battery will need to be discarded and replaced with a new one. To accomplish this,



FIG. 6

you will need the hex driver supplied with the unit. Loosen the screw at the bottom of the

power pack until it is removed from the battery door. Slide the door down and out to expose the battery (*Fig. 6*).

connector then place the battery in the pack. Make sure all wires are tucked into the compartment. Replace door and tighten screw. *NOTE: You will need to fully charge the battery before the fuel gauge will read properly.*

USING THE ULTRAMINI®/DAYLITE®/HDI™ HEADLIGHTS

Place the headlight onto the t-mount bracket for your frame. 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 (if equipped). Locate the hex in the locking shaft of the



FIG. 7

headlight (Fig.7). 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.*

CONNECTING YOUR HEADLIGHT



Before inserting or removing any headlight, cable from the power pack make sure the power pack is OFF

Plug the headlight cable into the headlight (Fig. 7). The micro USB connector can only be plugged in one way. The indicator on the connector must be facing in the direction shown.

FIG. 8



Connect the large end of the headlight cable to the headlight port on the top or side of the power pack.

Clips and a cable wrap are also supplied to be used in conjunction with your frame to

direct the cable away from your face.

The power pack **MUST BE OFF** when plugging any light into the pack. Once the headlight is plugged in, press the power button on the top of your battery pack. The headlight will

turn on at high intensity. The power button will illuminate and the status indicator will display the current state of charge. A second press of the power button will lower the light intensity(LEDSC pack only) of the headlight. A third press turns the power pack off. **ONLY** remove the headlight plug from the power pack when it is **OFF**

USING THE TWINBEAM® HDI™

The TwinBeam® HDI™ headlights are available with either a DV headset or a CXL headset. Both designs incorporate two locking shafts on the adjustable arm (*if equipped*). This is designed to facilitate precise positioning (*Fig. 9*).



FIG. 9

Connect the small end of the headlight cable to the back of the headlight. Connect the large end of the headlight cable to the headlight port on the top of the power pack. Clips are

located on the headsets to direct the cable away from your face.

Press the power button on the front of your battery pack. The headlight will turn on at high intensity. The power button will illuminate and the status indicator will display the current state of charge. A second press of the power button will lower the light intensity of the headlight. A third press turns the power pack off.

INSPECTION AND PREVENTATIVE MAINTENANCE

- Recommended disinfectant: Clorox HC Verasure Wipes (Ammonia-based)
- Recommended cleaner: Windex
- Intended Cleaning/Disinfection:
 - First, perform disinfection on all exposed sections with a Clorox Verasure HC wipe (alcohol-free) or other ammonia-based disinfectant. Wipe the sections and then allow to air dry for two minutes.

- Clean all disinfected sections with Windex or a standard glass cleaner and a soft, lint-free cloth, making sure not to scratch the surfaces.
- Prohibited Uses:
- This device is not intended to be sterilized
- Do not autoclave this device.
- Do not spray cleaner directly onto optics of this device.
- This device should not be submerged or soaked in cleaners or disinfectants.
- Do not use Alcohol, Amino, Phenol, Peroxide or Iodine complex-based solutions on this device.
- Using solutions/liquids other than recommended may void warranty
- Internal batteries must be replaced every 24 months to ensure proper operation

T-MOUNT PART NUMBERS

T-MOUNT DESCRIPTION	PART NUMBER
Orasoptic RDH Elite/ErgoEdge Bracket Kit	0075-8511-0085
Univet Bracket Kit	0075-8511-0073
Q-Optics TTL	0075-0013-0031
Surgitel TTL	0075-0009-0031
Orasoptic Tempo TTL	0075-8511-0082
Perioptix	0075-8511-0080
Keeler Flip-Up	0075-8511-0050
Flak Jacket	0075-8511-0065
Heine Flip-Up	0075-8511-0049
Sugitel Half Jacket	0075-0012-0031
Zeiss Flip-Up	0075-8511-0041
Flip-Up	0075-0010-0031
Orasoptic Flip-Up	0075-0014-0031
Examvision	0075-8511-0044

DESCRIPTION OF SYMBOLS

	<i>ATTENTION / CAUTION</i>
	<i>CAUTION: HOT SURFACE</i>
	<i>INDICATES CONFORMITY WITH MDR EU 2017/745</i>
	<i>INDICATES WHERE THE UNIT CAN BE TURNED ON AND OFF</i>
	<i>INDICATES BATTERY STATE OF CHARGE</i>
	<i>INDICATES WHERE THE UNIT CAN BE CHARGED</i>
	<i>READ ACCOMPANYING DOCUMENTS</i>
	<i>WASTE ELECTRICAL AND ELECTRONIC EQUIPMENT (WEEE) DIRECTIVE SYMBOL</i>

REPLACEMENT PARTS

DESCRIPTION	PART NUMBER
UltraMini™ HDi™	4902-3000-0001
UltraMini™ PS	4902-3000-0000
USB DayLite®	4702-0019-0002
DayLite® HDi™	4702-3000-0001
USB TwinBeam® (w/DV Headset)	4709-3000-0000
USB TwinBeam® (w/ CXL Headset)	4709-3005-0000
TwinBeam® HDi™	4709-3000-0001
DV Headset w/ T-mount	4709-3000-0005
CXL Headset w/ T-mount	4709-3005-0005
Battery	4912-0000-1018
Li-Ion Battery Charger	4912-0000-2019
United States Plug & Cord Set	4706-0000-0038
European Plug & Cord Set	4706-0000-0030
Australian Plug & Cord Set	4706-0000-0032
South African Plug & Cord Set	4706-0000-0039
Indian Plug & Cord Set	4706-0000-0033
English Fused Plug & Cord Set	4706-0000-0034
Japanese Plug & Cord Set	4706-0000-0037

ELECTROMAGNETIC INFORMATION

This equipment is designed to comply with IEC 60601-1-2. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with instructions, may cause harmful interference to other devices in the vicinity. However, there is no guarantee that interference will not occur in a particular installation. Harmful interference to other devices can be determined by turning this equipment ON and OFF. Try to correct the interference using one or more of the following:

- Reorient or relocate the receiving device
- Increase the separation between the equipment
- Consult Designs for Vision, Inc. for help

Table 201 – Guidance and Manufacturer's Declaration – Emissions
All Equipment and Systems

Guidance and Manufacturer's Declaration – Emissions
The LED DayLite® HDi™ is intended for use in the electromagnetic environment specified below. The customer or user of the LED DayLite HDi™ should insure that it is used in such an environment.

Emissions Test	Compliance	Electromagnetic Environment- Guidance
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RF Emissions CISPR 11	Group 1, Class A	The LED DayLite® HDi™ uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.
Harmonics IEC 61000-3-2	Class A	The LED DayLite® HDi™ is suitable for use in all establishments (not including domestic) and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.
Flicker IEC 61000-3-3	Complies	

Table 202 – Guidance and Manufacturer's Declaration – Immunity
All Equipment and Systems

Guidance and Manufacturer's Declaration – Immunity	
The LED DayLite® HDi™ is intended for use in the electromagnetic environment specified below. The customer or user of the LED DayLite® HDi™ should ensure that it is used in such an environment.	

Immunity Test	IEC 60601 Test Level	Compliance Level	Electromagnetic Environment – Guidance
ESD IEC 61000-4-2	±8kV Contact	±8kV Contact ±15kV Air	Floor should be wood, concrete or ceramic tile. If floors are

	±2kV, ±4kV, ±8kV, ±15kV Air		synthetic, the r/h should be at least 30%.
EFT IEC 61000-4-4	±2kV 100kHz Repetition frequency	±2kV 100kHz Repetition frequency	Mains power quality should be that of a typical commercial or hospital environment.
Surge IEC 61000-4-5	±0.5kV, ±1kV Line-to-line ±0.5kV, ±1kV, ±2kV Line-to- ground	±1kV Line-to-line ±2kV Line-to- ground With client modifications	Mains power quality should be that of a typical commercial or hospital environment.
Voltage Dips/Dropout IEC 61000-4-11	0% U_T : for 0.5 Cycle At 0°, 45°, 90°, 135°, 180°, 225°, 270°, 315° 0% U_T : for 1 Cycle and 70% U_T : for 25/30 Cycles Single Phase: at 0°	0% U_T : for 0.5 Cycle At 0°, 45°, 90°, 135°, 180°, 225°, 270°, 315° 0% U_T : for 1 Cycle and 70% U_T : for 25/30 Cycles Single Phase: at 0°	Mains power quality should be that of a typical commercial or hospital environment. If the user of the LED DayLite® HDi™ requires continued operation during power mains interruptions, it is recommended

			that the LED DayLite® HDi™ be powered from an uninterruptible power supply or battery.
Power Frequency 50Hz or 60 Hz Magnetic Field IEC 61000-4-8	30 A/m	30 A/m	Power frequency magnetic fields should be that of a typical commercial or hospital environment.

Table 204 – Guidance and Manufacturer's Declaration – Emissions
Equipment and Systems that are NOT Life-Supporting

Guidance and Manufacturer's Declaration – Emissions			
The LED DayLite® HDi™ is intended for use in the electromagnetic environment specified below. The customer or user of the LED DayLite® HDi™ should ensure that it is used in such an environment.			

Immunity Test	IEC 60601 Test Level	Compliance Level	Electromagnetic Environment - Guidance
Conducted Disturbances induced by RF Fields	3 V 0.15 MHz-80 MHz	3 V 0.15 MHz to 80 MHz	Interference may occur in the vicinity of equipment containing a transmitter.

IEC 61000-4-6	6 V in ISM bands between 0.15MHz and 80MHz	6 V in ISM bands between 0.15MHz and 80MHz	
Radiated RF EM Fields	80% AM at 1 kHz	80% AM at 1 kHz	
IEC 61000-4-3	3 V/m	3 V/m	
	80MHz-2.7GHz	80MHz-2.7GHz	
	80AM at 1KHz	80AM at 1KHz	

Table 206 – Recommended Separation Distances between portable and mobile RF Communications equipment and the LED DayLite® HDi™
Equipment and Systems that are NOT Life-Supporting

Recommended Separations Distances for the LED DayLite® HDi™
The LED DayLite® HDi™ is intended for use in the electromagnetic environment in which radiated disturbances are controlled. The customer or user of the LED DayLite® HDi™ can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF Communications Equipment and the LED DayLite® HDi™ as recommended below, according to the maximum output power of the communications equipment.

Test Frequency (MHz)	Band ^{a)} (MHz)	Service ^{a)}	Modulation ^{b)}	Max Power (W)	Distance (m)	Immunity Test Level (V/m)
385	380 - 390	TETRA 400	Pulse Modulation ^{b)} 18 Hz	1,8	0,3	27
450	430 - 470	GMRS 460, FRS 460	FM ^{c)} ±5 kHz deviation 1 kHz sine	2	0,3	28
710	704 - 787	LTE Band 13, 17	Pulse Modulation ^{b)} 217 Hz	0,2	0,3	9
745						
780						
810	800 - 960	GSM 800-900 TETRA 800, iDEN 820, CDMA 850, LTE Band 5	Pulse Modulation ^{b)} 18 Hz	2	0,3	28
870						
930						
1720	1700 - 1990	GSM 1800; CDMA 1900; GSM 1900; DECT; LTE Band 1, 3, 4, 25; UMTS	Pulse Modulation ^{b)} 217 Hz	2	0,3	28
1845						
1970						
2450	2400 - 2570	Bluetooth, WLAN, 802.11 b/g/n, RFID 2450, LTE Band 7	Pulse Modulation ^{b)} 217 Hz	2	0,3	28
5240	5100 - 5800	WLAN 802.11 a/n	Pulse Modulation ^{b)} 217 Hz	2	0,3	9
5500						
5785						
NOTE If necessary to achieve the IMMUNITY TEST LEVEL, the distance between the transmitting antenna and the LED DayLite® HDi™ may be reduced to 1 m. The 1 m test distance is permitted by IEC 61000-4-3.						

- a) For some services, only the uplink frequencies are included.
- b) The carrier shall be modulated using a 50 % duty cycle square wave signal.
- c) As an alternative to FM modulation, 50 % pulse modulation at 18 Hz may be used because while it does not represent actual modulation, it would be worst case.

WARNING: Use of this equipment adjacent to or stacked with other equipment should be avoided because it could result in improper operation. If such use is necessary, this equipment and the other equipment should be observed to verify that they are operating normally.

WARNING: Use of accessories, transducers and cables other than those specified or provided by the manufacturer of this equipment could result in increased electromagnetic emissions or decreased electromagnetic immunity of this equipment and result in improper operation.

WARNING: Portable RF communications equipment (including peripherals such as antenna cables and external antennas) should be used no closer than 30 cm (12 inches) to any part of the LED DayLite® HDi™, including cables specified by

Designs for Vision, Inc. Otherwise, degradation of the performance of this equipment could result.

NOTE: The EMISSIONS characteristics of this equipment make it suitable for use in industrial areas and hospitals (CISPR 11 class A). If it is used in a residential environment (for which CISPR 11 class B is normally required) this equipment might not offer adequate protection to radio-frequency communication services. The user might need to take mitigation measures, such as relocating or re-orienting the equipment.

NOTE: The LED DayLite® HDi™ may be adversely affected by EM DISTURBANCES possibly resulting in a loss of light output.

NOTE: The LED DayLite® HDi™ is intended to be used during HF SURGERY. Keep headlight cable securely attached to the body using supplied clips. Headlight cable should not come in contact with HF EQUIPMENT/CABLES. If interference occurs,

increase separation distance between the LED DayLite® HDi™ and the HF EQUIPMENT.

WARRANTY

The UltraMini® HDi™, UltraMini® PS, UltraMini® HDi™, USB DayLite®, DayLite® HDi™, TwinBeam® and TwinBeam® HDi™ headlights are warranted against imperfections and defects in materials and workmanship for four years. The power pack is warranted for two years. The internal batteries, charger, and cables are warranted for one year. Any damage caused by improper maintenance as described in the manual may not be covered by the warranty.

NOTES

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CH	REP
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SEE WHAT'S RIGHT ABOUT
MADE IN AMERICA®

TECHNICAL SUPPORT/CUSTOMER SERVICE

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Outside the US-Call Local Distributor



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EC

REP



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