



REVEAL[®]



USER GUIDE

Model: REVEAL[®] FC

Ver. 1-26

DESIGNS FOR VISION, INC. REVEAL® FC

The Designs for Vision REVEAL® FC system combines bright, portable light with evaluation glasses creating a lightweight fluorescent guided system.

INDICATIONS FOR USE

The Designs for Vision REVEAL® FC is an illumination device used to aid in autofluorescent visualization. When illuminated with the REVEAL® FC headlight, autofluorescent tissue provide an emission spectra that can be seen using the REVEAL® FC eyewear. 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 serious malfunction, 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. Use of unapproved batteries may not result in function 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

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 result in a serious malfunction. 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



Always use a Designs For Vision-supplied 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.



Do not plug or unplug the headlight to/from the power pack while the power pack is on.



Do not use any REVEAL® headlight without REVEAL® eyewear/Observation Glasses



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



Your observational glasses are to be used exclusively for the indicated purpose described.



Observational Glasses must be stored in provided instrument box after every use



Do not remove or tamper with marking and/or ID numbers on your device. This will void the warranty.



Do not force the protective case closed. Reposition eyewear if necessary. May cause damage if placed in case improperly. Do not remove rubber protective insert from case



The REVEAL FC should be used in a darkened or dimly lit room to provide the optimal working

environment to observe the autofluorescent emission spectra.




The REVEAL FC should undergo pre-operative verification before each use with the reference card. See page 34



At working distances over 17" it is recommended to only use the light at the highest intensity.

SPECIFICATIONS

LED DayLite® HDi™		Model Number: DVI-LEDSC	
POWER REQUIREMENTS			
<i>Battery Power : 7.4VDC, 3.5Ah 18650 Li-Ion</i> <i>For Charging : ^{A)} Cell-Con Charger Model 2240</i> Input : 100-240VAC, 50/60 Hz, .35A Output : 8.4 VDC, 1.3A max			
SPECTRAL CHARACTERISTICS			
Excitation Spectrum(<i>Headlight</i>):		395-425nm	
Emission Spectrum(<i>Observation Glasses</i>):		430 – 800nm	
ILLUMINATION <i>Measured with a cosine corrected light meter</i>			
At 12" UltraMini REVEAL® FC:	High	14 mW/cm ² ±10%	
	Low	8.2 mW/cm ² ±10%	
At 16" UltraMini REVEAL® FC:	High	8.3 mW/cm ² ±10%	
	Low	4.6 mW/cm ² ±10%	
At 18" UltraMini REVEAL® FC:	High	6.7 mW/cm ² ±10%	
RUNTIME <i>Measured with a fully charged battery</i>			
UltraMini® ReVeal FC:	High	10 hours +/-10%	
	Low	19 hours +/-10%	
DIMENSIONS			
POWER PACK:		3.60" x 1.95" x .95"	
WEIGHT:		4.9 oz.	
REVEAL® FC:		1.33" x .770"	
WEIGHT:		.7 oz	

TRANSPORT & STORAGE	
TEMPERATURE:	-40°C to 70°C
RELATIVE HUMIDITY:	10% to 75% 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 B, CISPR 11, IEC 62133, IEC 62366-1	
EQUIPMENT CLASS:	 Class II
INGRESS PROTECTION, HEADLIGHT:	IP22
INGRESS PROTECTION, BATTERY:	IPX0
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 11,099,376 B1, 10,215,977 B1, 10,527,254 B1

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

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DEVICE DESCRIPTION

The REVEAL® FC generates a 3” spot at a 16” working distance. This light provides illumination for autofluorescence guided applications ***and should be used with the REVEAL® FC observational glasses***

The Reveal® FC includes these main components:

- Power Pack LEDSC (2)
- Desktop Charger w/Power Cord
- REVEAL® FC Headlight
- REVEAL® FC Observational Glasses

Accessories include:

- Two Holsters w/Belt Clips
- Hex Drivers
- Cable Wrap Kit
- Operation Manual
- Registration Card
- T-Mount Bracket
- Carrying Case
- Smart Device Emission Filter

USING YOUR EYEWEAR

HOW TO START:

Your REVEAL[®] FC Observational Glasses are designed with special emission filters that work together with the excitation light produced by the headlight. The observation glasses block out all the excitation light while transmitting all other wavelengths.



Figure 1

Your observational glasses have the T-mount pre-installed on the frame.

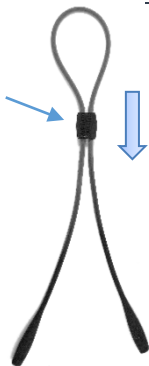
FIG. 2



ATTACHING THE RETAINING STRAPS

Your REVEAL[®] FC Observational Glasses come with retaining straps to help them remain comfortably in place during procedures. The straps are slid over the ends of the temples (*Fig. 4*). It is then secured to the head by using the adjustable slider shown in Figure 3.

FIG. 3



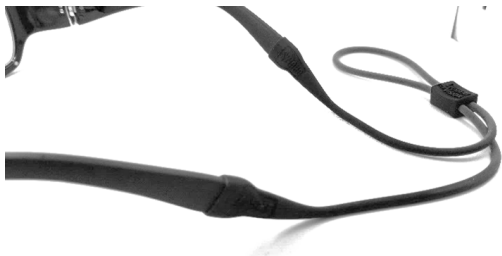


FIG. 4

REVEAL® FC INITIAL SETUP AND CHARGING

Remove the components from the shipping container, checking that all parts on the packing list have been received. Carefully remove the headlight, power pack(s), desktop charger and charger cord from the packaging carton.

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

The desktop charger is designed to meet multi-national regulatory requirements and has multi-input voltage capability

Fig. 5



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. 5).

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 25.*

The power button light will start pulsing to indicate the unit is in “Smart Charge” mode. The status indicator (*Fig. 6*) 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. 6



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. 7*). The clip on the back of the leather case is designed to clip onto a belt.

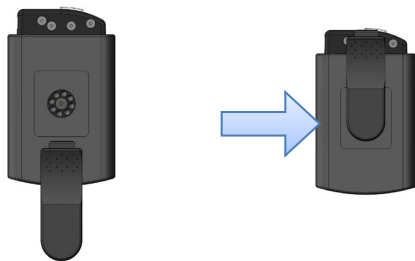
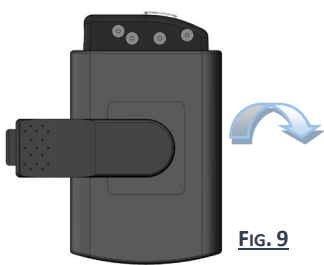
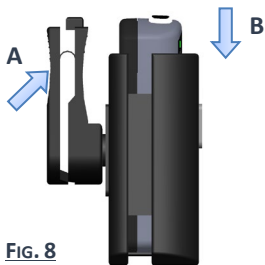


FIG. 7

Squeeze the clip together to open. Arrow A (*Fig. 8*) 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. 9*).


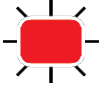


NOTE: Make sure power pack is properly seated before commencing use.

UNDERSTANDING THE STATUS INDICATOR

The REVEAL[®] FC incorporates an advanced status monitoring system. The following table describes what each indication signifies:

	<p>SOLID GREEN: FULLY CHARGED BATTERY</p>
	<p>SOLID/PULSING RED: LOW BATTERY</p>

	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 REVEAL[®] FC 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, 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. 10).



FIG. 10

NOTE: If the battery is installed improperly, the unit will not function

Unplug the black connector on the battery on the inside of the unit. *Note: Replace with Designs for Vision, Inc. battery only. Use of unapproved batteries may not result in function*

and will void the warranty. Insert the new battery being very careful to install in the proper orientation. Plug the battery

into the 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 REVEAL[®] FC HEADLIGHT

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 headlight (*Fig. 11*). 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.*

FIG. 11



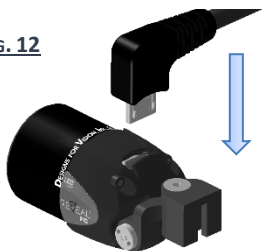
CONNECTING YOUR HEADLIGHT



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. 12*). The

FIG. 12



micro USB connector can only be plugged in one way. The indicator on the connector must be facing in the direction shown. 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 of the headlight. A third press turns the power pack off. **ONLY** remove the headlight plug from the power pack when it is **OFF**

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>



*WASTE ELECTRICAL AND ELECTRONIC
EQUIPMENT (WEEE) DIRECTIVE
SYMBOL*

REPLACEMENT PARTS

DESCRIPTION	PART NUMBER
REVEAL® FC	4949-3405-1000
Power Pack	4912-0000-0001
Li-Ion Battery Charger	4912-0000-2019
United States Plug & Cord Set(6ft)	4706-0000-0038
European Plug & Cord Set(6ft)	4706-0000-0030
Australian Plug & Cord Set(6ft)	4706-0000-0032
South African Plug & Cord Set(6ft)	4706-0000-0039
Indian Plug & Cord Set(6ft)	4706-0000-0033
English Fused Plug & Cord Set(6ft)	4706-0000-0034
Japanese Plug & Cord Set(6ft)	4706-0000-0037
Headlight Cable(53 inches)	4911-0001-0022
Retaining Strap	0025-6000-8877
Cloth, Lens Cleaning	0010-0000-0005
Smart Device Emission Filter	1025-07FC-0000
Observation Glasses, REVEAL® FC Stoggles Brown Fade(Non-Rx)	8556-00FC-0430
Frame, Stoggles Round Brown Fade	2800-0001-0000

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
REVEAL® FC is intended for use in the electromagnetic environment specified below. The customer or user of the REVEAL® FC should ensure that it is used in such an environment.

Emissions Test	Compliance	Electromagnetic Environment- Guidance
RF Emissions CISPR 11	Group 1, Class B	REVEAL® FC 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	REVEAL® FC is suitable for use in all establishments including domestic establishments 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
REVEAL® FC is intended for use in the electromagnetic environment specified below. The customer or user of REVEAL® FC 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 ±2kV, ±4kV, ±8kV, ±15kV Air	±8kV Contact ±15kV Air	Floor should be wood, concrete or ceramic tile. If floors are 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 REVEAL® FC requires continued operation during power mains interruptions, it is recommended that REVEAL® FC be powered from an uninterruptible power supply or battery.
Power Frequency	30 A/m	30 A/m	Power frequency magnetic fields should be that of a typical

50Hz or 60 Hz Magnetic Field IEC 61000-4-8			commercial or hospital environment.
IMMUNITY to proximity magnetic fields in the frequency range 9kHz to 13,56MHz 61000-4-39	134.2kHz, Plus modulation 2.1kHz, 65A/m 13.56MHz, Pulse modulation 50kHz, 7.5 A/m	134.2kHz, Pulse modulation 2.1kHz, 65 A/m 13.56 MHz, Pulse modulation 50kHz, 7.5 A/m	Portable and mobile RF communications equipment should be used no closer to any part of the device, including cables, than the recommended separation distance of 15cm

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

Guidance and Manufacturer’s Declaration – Emissions
REVEAL® FC is intended for use in the electromagnetic environment specified below. The customer or user of REVEAL® FC should ensure that it is used in such an environment.

Immunity Test	IEC 60601 Test Level	Compliance Level	Electromagnetic Environment - Guidance
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Conducted Disturbances induced by RF Fields IEC 61000-4-6	3 V 0.15 MHz-80 MHz 6 V in ISM bands between 0.15MHz and 80MHz 80% AM at 1 kHz	3 V 0.15 MHz to 80 MHz 6 V in ISM bands between 0.15MHz and 80MHz 80% AM at 1 kHz	Interference may occur in the vicinity of equipment containing a transmitter.
Radiated RF EM Fields IEC 61000-4-3	3 V/m 80MHz-2.7GHz 80AM at 1KHz	3 V/m 80MHz-2.7GHz 80AM at 1KHz	

Table 206 – Recommended Separation Distances between portable and mobile RF Communications equipment and the REVEAL® FC Equipment and Systems that are NOT Life-Supporting

Recommended Separations Distances for the REVEAL® FC
REVEAL® FC is intended for use in the electromagnetic environment in which radiated disturbances are controlled. The customer or user of REVEAL® FC can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF Communications Equipment and REVEAL® FC 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	Pulse Modulation ^{b)} 217 Hz	2	0,3	28

		b/g/n, RFID 2450, LTE Band 7				
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 REVEAL® FC 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 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 REVEAL® FC 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 B).

NOTE: REVEAL® FC may be adversely affected by EM DISTURBANCES possibly resulting in a loss of light output.

NOTE: REVEAL® FC 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 REVEAL® FC and the HF EQUIPMENT.

INSPECTION AND PREVENTATIVE MAINTENANCE

USING THE REFERENCE CARD:

Before each use, the REVEAL[®] FGS must undergo pre-operative verification using the supplied reference card (*Fig. 15*) with the headlight and eyewear. This card is used to test if the unit is providing the proper excitation light to fluoresce during use. The reference card is also used to set the ambient light using a grayscale setting on the card (*Fig. 16*)

FIG. 15

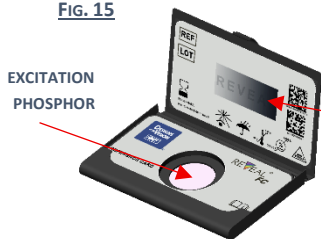


FIG. 16



To use the Reference Card perform the following steps:

- Start by placing and securing the REVEAL® FC onto the REVEAL Eyewear with the headlight wire and power pack secured to the body of the user.
- Place and secure the REVEAL® eyewear on the user.
- Before switching the unit on, open the REVEAL Reference Card case and use the grayscale bar to confirm the ambient lighting is adequate. Reduce the ambient lighting condition so that the first few letters in the word 'REVEAL' are only slightly visible in the gray scale bar. Fig 16.
- Switch on the power pack by pressing the power button and switch the illumination to blue light mode. This device has two blue light modes, it is recommended to confirm both modes
- Hold the Reference Card at a ***minimum of 16 inches*** working distance from the headlight. See Fig 17



- The blue illumination from the headlight will activate the fluorescence of the Reference Card, changing the active area on the card from white to red fluorescence.
- ***NOTE: If no fluorescence emission is observed, please cease all use of the device and contact Designs for Vision immediately.***
- Clean lenses with a standard glass cleaner and a soft, lint-free cloth, making sure not to scratch the surface.
- Not intended to be sterilized. It is recommended for disinfection that all the exposed plastic sections of the headlight, power pack and accessories be wiped with Lysol IC or Clorox VeraSure surface disinfectant/cleaner or an equivalent plastic-safe cleaner.
- 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.

- Wipe cables with plastic-safe cleaners, if necessary. Do not allow cleaners to get onto the cable connectors as it may cause the electrical terminals to corrode
- Internal batteries should be replaced every 24 months to ensure proper operation
- Your Designs for Vision, Inc product utilizes precision Anti-Reflective coatings. Clean lenses with a standard glass cleaner and a soft, lint-free cloth, making sure not to scratch the surface.



- Not intended to be sterilized. *Do not autoclave.* It is recommended for disinfection that all exposed plastic sections be wiped with Clorox Verasure surface disinfectant/cleaner or an equivalent plastic-safe cleaner. *Do not use alcohol, phenol, ammonia, or iodine complex solutions*
- *Do not immerse parts in solutions. Using solutions other than recommended may void warranty. Allowing liquids to enter openings may void warranty.*
- Avoid extreme temperatures and environmental conditions

- Protect your observational glasses, always store in the instrument box provided with the rubber insert in place.

WARRANTY

The REVEAL[®] FC headlight is 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

Designs for Vision, Inc (the “Company” warrants its observational glasses as to material, manufacturing and workmanship, to the original purchaser for the life of his or her practice.

This warranty is limited to the repair (by the Company) or replacement of the surgical eyewear, at the sole option of the Company. This warranty does not cover any consequential, special or incidental damages and it does not cover any damages caused by modification, alteration, repair or service by or damage caused by misuse or improper maintenance. This warranty does not extend to frames made by manufacturers other than the Company even if provided by the Company.

We trust that our product meets with your satisfaction. If you

have any questions or problems or claims under this warranty with this product, please call our Customer Service Department at the listed toll-free number 1-800-345-4009. One of our Customer Service Representatives will inform you of the necessary procedures for the adjustment or return of the instrument.

- If your eyeglass prescription changes and you want it updated into your observational glasses, contact Designs for Vision Customer Service Department and request a quote.
- Contact our Customer Service Department *before* you send your glasses in for repair.
- If this system must be returned for any reason, *before* you ship them, please Contact Customer Service at: DesignsforVision.com/Service.htm
 - Pack in a box with packing list and copy of invoice
 - Ship to: Designs for Vision, Inc.
4000 Veterans Memorial Hwy.
Bohemia, NY 11716-1024
Attn: Repairs



SEE WHAT'S RIGHT ABOUT
MADE IN AMERICA[®]

TECHNICAL SUPPORT/CUSTOMER SERVICE

1.800.345.4009

Outside the US-Call Local Distributor



Manufactured by Designs for Vision, Inc
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