Vantage Plus and Vantage Plus LED

Indirect Ophthalmoscope





Contents:

1.	Copyright and trademarks	Page 3	6. Wireless chargers	Page 14	1
2.	Introduction	4	■ Power supply		
	Product description		Standard lithium	15	5
3.	Symbols	5	Slimline lithium ion	16	5
	Safety	6	 Charging and charging cycle 	17	7
	 Device classification 		■ Wall mounting	20)
	Warnings		7. SmartPack and WallPack	22	2
	Cautions	7	Parts list		
	Safety considerations	8	Power conversion	23	3
5.	Setting up and using the Vantage Plus	9	Wall mounting / charging	24	1
	Controls and components		■ LED displays	25	5
	Headband adjustment	10	8. LED / bulb replacement	26	5
	 Ophthalmoscope alignment 		9. Cleaning instructions	27	7
	 Interpupillary distance setting control 	11	10. Specifications and electrical ratings	28	3
	 Obtaining a fused image 		Electrical specifications		
	Mirror angle control		Transport, storage and operation		
	 Head dimmer switch 		11. Annex I – EMC statement and guidelines	29	•
	Setting the aperture	12	12. Spare parts and accessories	34	1
	Selecting filters	13	13. Warranty	37	7
			14. Contact and disposal information	38	3

Click on the headings above to go directly to that section

Use the buttons on the right to navigate the document Clicking 'Home' from any page brings you back to this contents page



1. Copyright and trademarks

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As part of our policy for continued product development we reserve the right to make changes to specifications and other information contained in this document without prior notice.

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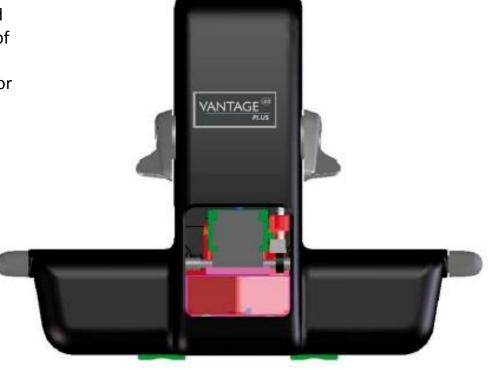


2. Introduction

Thank you for purchasing the Keeler Vantage Plus Indirect Ophthalmoscope.

We have taken the greatest care in the design, development and manufacture of this product to ensure that you get many years of trouble free service. However, it is important that you read the descriptions, installation and operating instructions carefully prior to installing or using your new indirect ophthalmoscope.

Please read and follow these instructions carefully.





3. Symbols



Read user instructions for Warnings, Cautions and additional information



The CE mark on this product indicates it has been tested to and conforms with the provisions noted within the 93/42/EEC Medical Device Directive



Consult instructions for use



Double insulated



Manufacturers name and address



This Symbol on the Product or on its Packaging and instructions indicates that it was put on the market place after August 2005 and that this product shall not be treated as Household Waste.



Type B protections against shock



Mandatory action sign



Follow instructions for use



High voltage



Trip hazard



Optical radiation hazard



Hot surface



Non-ionizing radiation



This way up



Keep dry



Fragile



Material suitable for recycling



4. Safety

Device classification

CE Regulation 93/42 EEC: Class I

FDA: Class II

Carefully read this Instruction Section before using your Keeler product. For your own safety and that of your customers observe all cautionary information provided in this section. The following information is intended to highlight potential safety hazards that can be associated with misuse, or damage

Warnings and cautions



Warnin



Check your Keeler product for signs of transport / storage damage prior to use

Do not use if the product is visibly damaged, and periodically inspect for signs of damage

Do not use in the presence of flammable gases / liquids, or in an oxygen rich environment

This product should not be immersed in fluids

Do not disassemble or modify the battery. There are no serviceable parts inside

Do not dispose of battery in fire, puncture or short circuit

Do not use a battery that is deformed, leaking, corroded or visually damaged. Handle a damaged or leaking battery with care. If you come into contact with electrolyte, wash exposed area with soap and water. If it contacts the eye, seek medical attention immediately

US Federal law restricts this device to sale by or order of a physician or practitioner



Do not fit mains power adapter into a damaged mains outlet socket



Route power cords safely to eliminate risk of tripping or damage to equipment



Bulbs / LED's can reach high temperatures in use – allow to cool before handling



Do not exceed maximum recommended exposure time



After removal of the bulb / LED do not touch the bulb / LED contacts and the patient simultaneously



4. Safety





Use only genuine Keeler approved parts and accessories or device safety and performance may be compromised

Use only Keeler approved batteries, chargers and power supplies as per the accessories listed in section 12

The product has been designed to function safely when at an ambient temperature between +10°C and +35°C

Keep out of the reach of children

To prevent condensation from forming, allow instrument to come to room temperature before use

For indoor use only (protect from moisture)

When replacing lithium battery pack, turn indirect off and attach new pack

Remove batteries when device may not be used for prolonged periods

Do not charge battery in any environment where the temperature may exceed 40°C or fall below 0°C

There are no user serviceable parts inside. Contact authorised service representative for further information

Ensure battery orientation is correct, or personal injury / damage to equipment may occur

Care should be taken when handling halogen bulbs. Halogen bulbs can shatter if scratched or damaged

Ensure device is securely held in docking station to minimise risk of injury or damage to equipment

Follow guidance on cleaning / routine maintenance to prevent personal injury / damage to equipment



Switch off the electrical supply and disconnect from the mains electrical supply before cleaning and inspection

Dispose of batteries in line with local environmental regulations

At product end of life dispose of in accordance with local environmental guidelines (WEEE)



Note: Lithium Ion batteries contain no toxic heavy metals such as mercury, cadmium or lead



4. Safety

Safety considerations





It is well established that exposure of the eye to intense light sources for extended periods of time poses a risk of retinal photic injury. Many ophthalmic instruments illuminate the eye with intense light. The decision about the intensity of the light level to use in any procedure must be made on a case to case basis. In each case, the clinician must take a risk benefit judgement about the intensity of light to be used. Use of insufficient intensity may result in inadequate visualization and in adverse effects more serious than retinal photic damage. Further, despite all efforts taken to minimise the risk of retinal damage, damage may still occur. Retinal photic injury is a possible complication of the need to use bright light clearly visualize ocular structure during delicate ophthalmic surgical procedure.

While no visible retinal lesions have been identified for ophthalmic instruments, it is recommended that illumination levels be set to the minimum level necessary to perform the diagnostic function. Young children and persons with diseased eyes may be at a higher risk. The risk may also be increased if the person being examined has had any exposure with the same instrument or any other ophthalmic instrument using an intense visible light source during the previous 24 hours. This will apply particularly if the eye has been exposed to retinal photography.

The light emitted from this instrument is potentially hazardous. The longer the duration of exposure, the greater the risk of ocular damage. Exposure to light from this instrument when operated at maximum intensity will exceed the safety guideline after 27 minutes.





Headband Adjustment

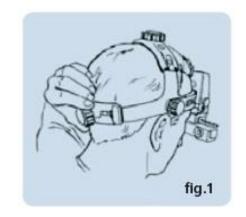
Comfortable Fit

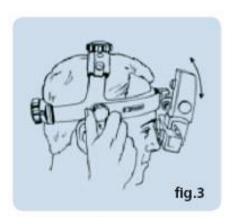
Adjust the size (A) fig.1 and the height (B) fig.2, so that the instrument is supported comfortably around and on top of the head.

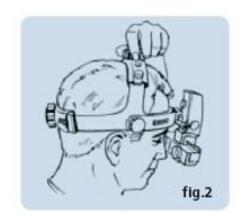
Ophthalmoscope Angle Alignment

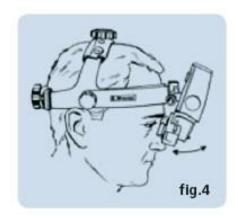
For vertical alignment of the eyepieces and binocular block (O), adjust the height of the Metal Outer Brow Bar (C) if necessary by using the browband tension knobs (D) located on the sides of the headset (fig 3).

Position the Binocular Block (O) as close to the eyes or spectacles as possible for maximum field of view. Slightly loosen the ophthalmoscope angle knob (E) to allow for adjustment and tighten when in position as in (fig 4).











Interpupillary Distance Setting Control (S)

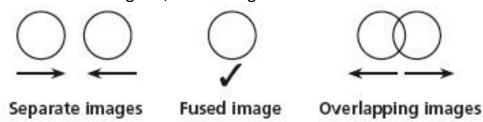
Because the eyes are dissociated, particular care must be taken to ensure the optics (eyepieces) are set properly in front of each eye.

Always set the Aperture Selection (H) to the large light patch for this exercise.

Place an object, perhaps the thumb, approximately 40cm from the face and centre it horizontally in the light patch. Then, close one eye. Using the thumb and forefinger of the opposite hand, slide the P.D.Control (S) of the open eye (located directly under each eyepiece) so that your object moves into the centre of the field, keeping the object in the centre of the light patch. Repeat for the other eye.

Obtaining a fused image

Ensure that a singular, fused image is obtained as follows:



Mirror Angle Control (J)

The light is positioned vertically into the upper two thirds of the field of view by rotating the spindle (J) located on either side of the binocular block.

Head Dimmer Switch (T)

Turn the illumination on by rotating the headband dimmer (T) in an anti clockwise direction.



Setting the Aperture

Aperture Lever Selection (H)

By rotating the knob (H) different apertures may be selected.

The Keeler Vantage Plus has 3 light apertures which offer maximum stereopsis. When you select the aperture the illumination and viewing mirrors automatically adjust for maximum stereopsis.

Mirrors move forward/

back as apertures are

selected

O Large

The large, round, homogeneous patch is suitable for routine examinations through fully dilated pupils. In this position the mirror remains in the forward position and the optics are diverged.

O Intermediate

The intermediate patch is designed to reduce reflections when entering a partially or poorly dilated pupil (3mm). It is also ideal for closer inspection of particular fundal areas. The mirror and optics stay in the mid position.

O Small

This light patch is ideal for small, undilated pupils. The mirror moves back and the optics automatically converge.

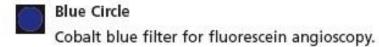




12

Filter Lever Selection (I)





White Circle

Clear light – Select the clear with no filter when inspecting a specific pathology and a brighter, whiter light is desired.

Red Free filter – this filter reduces the red light, so blood will appear black, silhouetted against a dark background.

Diffuser

This unique extra wide beam of diffused light permits a more relaxed technique during more challenging fundus examinations.

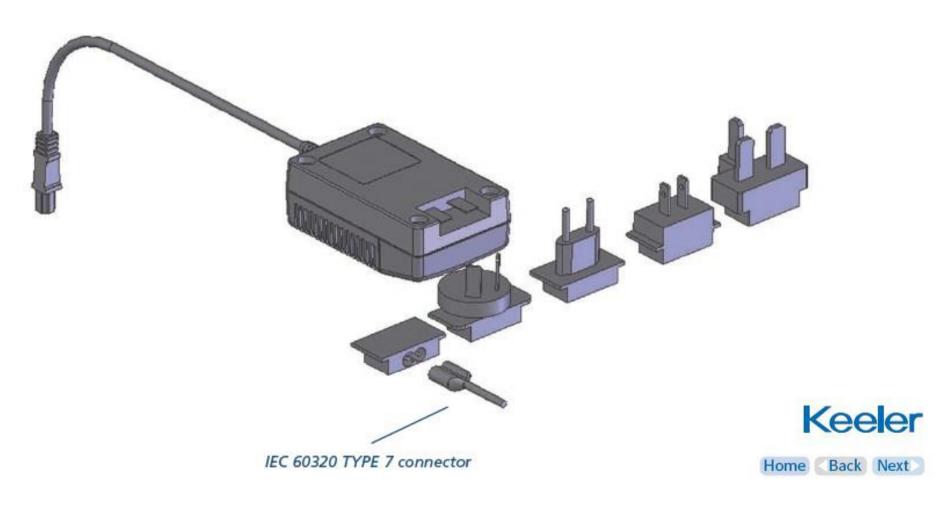
Beginners may also find this aperture particularly helpful since, in order to achieve a full lens image, the alignment between the headset, the condensing lens and the pupil is



6. Wireless chargers – power supply assembly

Set plug

Replace the blanking plate with the appropriate mains plug adaptor if required, or use IEC 60320 TYPE 7 connector (not supplied).



6. Wireless chargers – Standard Lithium

Inserting/replacing the Battery Pack

- Release battery by pressing release button as shown and lift battery pack from cradle.
- To insert new battery pack, place in cradle until fully engaged.





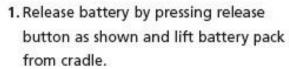
Press release button

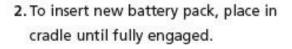


6. Wireless chargers – Slimline Lithium-ion























6. Wireless chargers

Charging

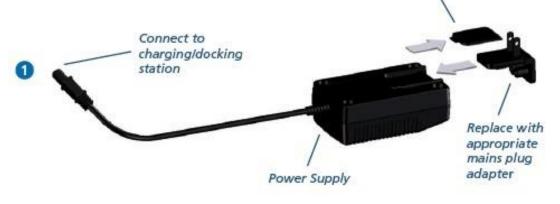
 Replace the blanking plate with the appropriate mains plug adapter, and connect plug on cable to power input socket on charger.

Switch on your Lithium Charger by plugging it into a mains outlet.

Place your spare battery pack or headset into your Lithium Charger as shown.









Remove the blanking plate

Keeler

6. Wireless chargers

Headband Battery Holder

Flashing LED - Battery requires charging.

Charging Station

No indicator – Battery is fully charged.

Flashing indicator – Top up Charge.

Solid indicator – Rapid Charge.

The battery pack can be used at any time during the charging cycle and will automatically resume charging when battery pack is placed back in the charger.

Direction arrow on charger indicates which battery is being charged.



6. Wireless chargers

Charging Cycle - Standard Lithium

The battery attached to the indirect will take approximately 2 hours to fully charge.

The battery will last approximately 2 hours on full power.

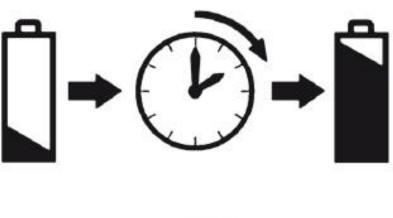
The spare battery will take 4 hours to charge.

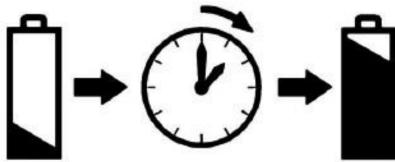
Charging Cycle - Slimline Lithium ion

The battery attached to the indirect will take approximately 1½ hours to fully charge.

The battery will last approximately 1 hour on full power.

The spare battery will take 1½ hours to charge.





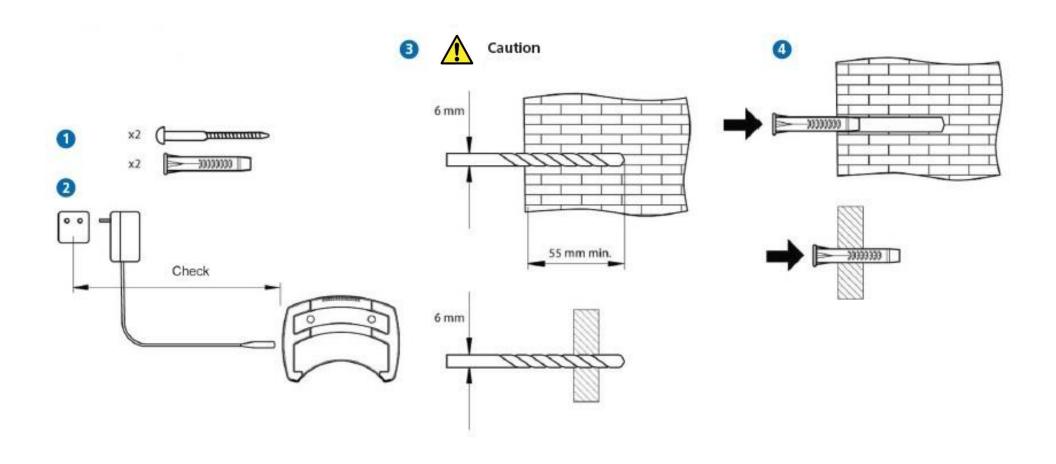


6. Wireless chargers – wall mounting





6. Wireless chargers – wall mounting





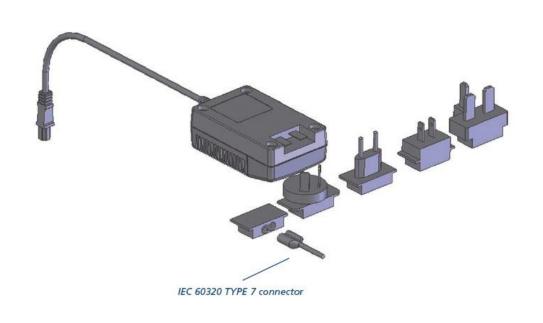
Parts List A Hex Key **B** Screws C Screws D Wall Plugs E Base Cap F Wall Mount G Adhesive Pads H Rechargeable battery Part No. EP39 22079 I Body J Power Supply K Australian Plug L UK Plug M Euro Plug N USA Plug Keeler Home Back Next

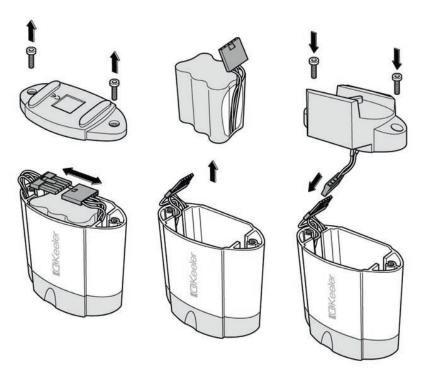
Set Plug

Assemble the power supply as per the instructions in section 6.

Power conversion

Convert to either WallPack or SmartPack by following the illustration below.





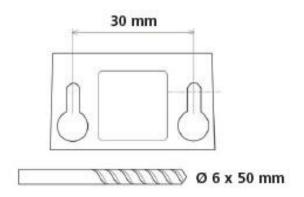


Fixing the Wall Mount

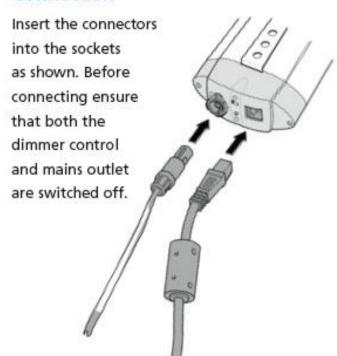
Use the wall plugs and screws to mount the wall pack unit, attach the adhesive pads to the side of the case.







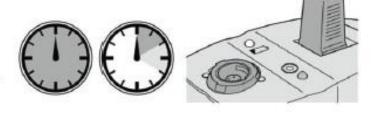
Connection



Charge Time

Charge the battery for 12 - 14 hours before initial use. Note: The unit becomes warm when charging, this is normal.

Recharging may take place while indirect is in use. Normal battery life is 1.5 to 5 hours depending on setting with a recharge time of two hours or on continuous trickle.





LED Displays



Slow Pulse



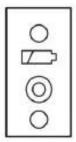
Fast Pulse



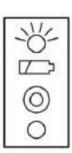
LED On



LED Off



Charging



Trickle Charging



In use



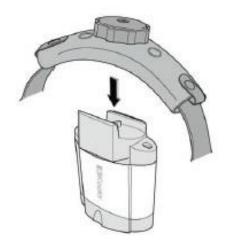
Battery low

Power Supply Battery

Insert or remove the indirect plug or switch the indirect off/on.

Power Supply Mains

- · Switch the indirect ON/OFF
- · Insert or remove the mains plug
- · Place on or off the cradle switch
- · Green LED illuminates when indirect is on





8. LED / bulb replacement



Caution: The LED/bulb may get very hot after prolonged use.

Allow LED/bulb to cool and disconnect the instrument from the electricity supply. Remove the LED/bulb from the back of the instrument and insert the new LED/bulb, ensuring the LED/bulb's key is aligned with the aperture and securely pushed in.

Changing headband rheostat from Bulb to LED operation

Your Vantage Plus LED is already set to LED operation. If you want to change to Bulb operation, please move the switch backwards as shown in the diagram. To return to LED please move the switch forwards as shown in the diagram.



9. Cleaning

Only manual non-immersion cleaning as described should be used for this instrument

Do not autoclave or immerse in cleaning fluids





Always disconnect power supply from source before cleaning

- a Wipe the external surface with a clean absorbent, non-shedding cloth dampened with a water / detergent solution (2% detergent by volume) or water / isopropyl alcohol solution (70% IPA by volume). Avoid optical surfaces
- b Ensure that excess solution does not enter the instrument. Use caution to ensure cloth is not saturated with solution
- c Surfaces must be carefully hand-dried using a clean non-shedding cloth
- d Safely dispose of used cleaning materials



10. Specifications and electrical ratings

Input mains data: 100-240V – 50/60Hz

Power supply rating: 12V: 2.5amps
Operation: Continuous

Classification: Class II equipment

Type B protection against shock

Transport, storage and operating conditions				
	Transport	Storage	Operation	
Temperature	-40°C	-10°C	+10°C	
range	to +70°C	to +55°C	to +35°C	
Relative humidity	10% to 95%	10% to 95%	30% to 75%	
Atmospheric	500hPa	700hPa	700hPa	
pressure	to 1060hPa	to 1060hPa	to 1060hPa	



The Keeler Vantage Plus / Vantage Plus LED is a medical electrical instrument. The instrument requires special care concerning electromagnetic compatibility (EMC). This section describes the suitability in terms of electromagnetic compatibility of this instrument. When installing or using this instrument, please read carefully and observe what is described here.

Portable or mobile-type radio frequency communication units may have an adverse effect on this instrument, resulting in malfunctioning.

Guidance and manufacturer's declaration - electromagnetic immunity

The Keeler Vantage Plus LED is intended for use in the electromagnetic environment specified below. The customer or the user should assure that it is used in such an environment.

Immunity test	IEC 60601 Test level	Compliance level	Electromagnetic environment - guidance
Electrostatic discharge (ESD). IEC 61000-4-2	± 6 kV contact ± 8 kV air	± 6 kV contact ± 8 kV air	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30%.
Electrical fast transient/burst. IEC 61000-4-4	± 2 kV for power supply lines ± 1 kV for input/output lines	± 2 kV for power supply lines N/A	Mains power quality should be that of a typical commercial or hospital environment.
Surge. IEC 61000-4-5	± 1 kV line(s) to line(s) ± 2 kV line(s) to earth	± 1 kV line(s) to line(s) N/A	Mains power quality should be that of a typical commercial or hospital environment.
Voltage dips, short interruptions and voltage variations on power supply input lines. IEC 61000-4-11	<5% <i>U</i> ⁺ (> 95% dip in <i>U</i> ⁺) for 0.5 cycles 40% <i>U</i> ⁺ (60% dip in <i>U</i> ⁺) for 5 cycles 70% <i>U</i> ⁺ (30% dip in <i>U</i> ⁺) for 25 cycles <5% <i>U</i> ⁺ (>95% dip in <i>U</i> ⁺) for 5 s	<5% <i>U</i> τ (> 95% dip in <i>U</i> τ) for 0.5 cycles 40% <i>U</i> τ (60% dip in <i>U</i> τ) for 5 cycles 70% <i>U</i> τ (30% dip in <i>U</i> τ) for 25 cycles <5% <i>U</i> τ (>95% dip in <i>U</i> τ) for 5 s	Mains power quality should be that of a typical commercial or hospital environment. If the user of the Keeler Vantage Plus LED requires continued operation during power mains interruptions, it is recommended that the charger be powered from an uninterruptible power supply.
Power frequency (50/60 Hz) magnetic field. IEC 61000-4-8	3 A/m	3 A/m	Power frequency magnetic fields should be at a level characteristic of a typical location in a typical commercial or hospital environment.

Note U_T is the a.c. mains voltage prior to application of the test level.



Guidance and manufacturer's declaration - electromagnetic emissions

The Keeler Vantage Plus LED is intended for use in the electromagnetic environment specified below. The customer or user should assure that it is used in such an environment.

Emissions test		Compliance	Electromagnetic environment - guidance	
Charger only	RF emissions CISPR 11	Group 1	The Keeler Vantage Plus LED 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.	
	RF emissions CISPR 11	Class B	The Keeler Vantage Plus LED is suitable for use in all establishments, including domestic establishments and those directly connected to the	
Harmonic emissions IEC 61000-3-2		Class A	public low-voltage power supply network that supplies buildings used for domestic purposes.	
Voltage fluctuations / flicker emissions IEC 61000-3-3		Complies		
Indirect Ophthalmoscope only	RF emissions CISPR 15	Complies	The Keeler Vantage Plus LED is not suitable for interconnection with other equipment	



Guidance and manufacturer's declaration - electromagnetic immunity

The Keeler Vantage Plus LED is intended for use in the electromagnetic environment specified below. The customer or user should assure that it is used in such an environment.

Immunity test	IEC 60601 Test level	Compliance level	Electromagnetic environment - guidance
			Portable and mobile RF communications equipment should be used no
			closer to any part of the Keeler Vantage Plus LED, including cables, than the
			recommended separation distances calculated from the equation applicable
			to the frequency of the transmitter.
			Recommended separation distance
			d = 1.2 V p
Conducted RF	3 Vrms	3 V	
IEC 61000-4-6	150 kHz to 80 MHz		d = 1.2 √ p 80MHz to 800 MHz
			d = 2.3 V p 800MHz to 2.5GHz
Radiated RF	3 V/m	3 V/m	Where p is the maximum output power rating of the transmitter in watts(W)
IEC 61000-4-3	80MHz to 2.5GHz		according to the transmitter manufacturer and d is the recommended
			separation distance in metres(m).
			Field strengths from fixed RF transmitters, as determined by an
			electromagnetic site survey ¹ , should be less than the compliance level in
			each frequency range. ²
			· , ~
			Interference may occur in the vicinity of
			equipment marked with the following symbol:

Note 1 At 80MHz and 800MHz, the higher frequency range applies.

Note 2 These guide lines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

¹ Field strengths from fixed transmitters, such as base stations (cellular / cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which the Keeler Vantage Plus LED is used exceeds the applicable RF compliance level above, the instrument should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as reorientating or relocating the Keeler Vantage Plus LED.



² Over the frequency range 150kHz to 80 MHz, field strengths should be less than 3 V/m.

Recommended separation distances between portable and mobile RF communications equipment and the Keeler Vantage Plus LED

The Keeler Vantage Plus LED is intended for the use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the Keeler Vantage Plus LED can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the Keeler Vantage Plus LED as recommended below, according to the maximum output power of the communications equipment.

Rated maximum	Separation distance according to frequency of transmitter m			
output power of				
transmitter	150 kHz to 80MHz	80MHz to 800MHz	800MHz to 2.5GHz	
W	d = 1.2√ p	d = 1.2√ p	d = 2.3√ p	
0.01	0.12	0.12	0.23	
0.1	0.37	0.37	0.74	
1	1.2	1.2	2.3	
10	3.7	3.7	7.4	
100	12	12	23	

For transmitters rated at a maximum output power not listed above, the recommended separation distance d in metres (m) can be determined using the equation applicable to the frequency of the transmitter, where p is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer.

Note 1 At 80MHz and 800MHz, the higher frequency range applies.

Note 2 These guide lines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.



12. Spare parts and accessories

The following accessories are typical of those supplied in the kits as indicated:

Vantage Plus Bulb version:

Wired (eg. 1204-P-3051)

Part Number	Description
EP39-53748	Eye Lens Plano (qty 2)
EP39-53799	Rubber Eye Cap (qty 2)
1202-P-7192	HiMag Assembly
2199-P-7136	Lens Cloth
1012-P-5241	Bulb
2415-P-7001	Instructions for Use CD

Wireless, with standard battery and charger (eg. 1204-P-3056)

As for 1204-P-3051 example, plus:		
Part Number	Description	
EP29-32777	Power supply	
EP39-22706	Wall pad	
EP59-49013	Wall mount template	
EP79-06498	Rawlbloc wall plug (qty 2)	
SP90-84030	Screws (qty 2)	
1012-P-5241	Bulb	
1919-P-1013	Battery pack	
1941-P-5334	Standard charger	
2415-P-7000	Instructions for use CD	

Wireless, with slimline battery and charger (eg. 1204-P-3067)

As for 1204-P-3051 example, plus:		
Part Number	Description	
EP29-32777	Power supply	
EP39-22706	Wall pad	
EP59-49005	Wall mount template	
EP79-06498	Rawlbloc wall plug (qty 3)	
EP79-09496	Rubber foot (qty 3)	
SP90-82000	Wood screw (qty 3)	
1919-P-5338	Slimline battery (1 fitted, 1 bagged)	
1945-P-5019	Slimline charger	



12. Spare parts and accessories

Vantage Plus LED:

Wired (eg. 1205-P-1010)

Part Number	Description
EP39-53748	Eye Lens Plano (qty 2)
EP39-53799	Rubber Eye Cap (qty 2)
1202-P-7192	HiMag Assembly
2199-P-7136	Lens Cloth
2415-P-7001	Instructions for Use CD

Wireless, with standard battery and charger (eg. 1205-P-1019)

As for 1205-P-1010 example, plus:		
Part Number	Description	
EP29-32777	Power supply	
EP39-22706	Wall pad	
EP59-49013	Wall mount template	
EP79-06498	Rawlbloc wall plug (qty 2)	
SP90-84030	Screws (qty 2)	
1919-P-1013	Battery pack (1 fitted, 1 bagged)	
1941-P-5334	Standard charger	

Wireless, with slimline battery and charger (eg. 1205-P-1020)

As for 1205-P-1010 example, plus:		
Part Number Description		
EP29-32777	Power supply	
EP39-22706	Wall pad	
EP59-49005	Wall mount template	
EP79-06498	Rawlbloc wall plug (qty 3)	
EP79-09496	Rubber foot (qty 3)	
SP90-82000	Wood screw (qty 3)	
1919-P-5338	Slimline battery (1 fitted, 1 bagged)	
1945-P-5019	Slimline charger	



12. Spare parts and accessories

Fitting your HiMag[™] Lens (M) and Teaching Mirror (N)

To fit the HiMag™ lens simply push it onto the front of the window as shown in the diagram.

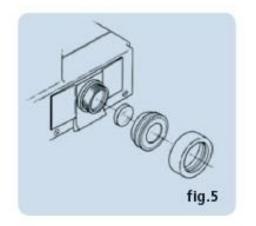


Rubber Eyecaps

Rubber eyecaps are provided to protect spectacles and have been manufactured in rubber to avoid any abrasions. To use simply fit over the eyecaps.

Plano Lenses

The Keeler Vantage Plus supplies as standard +2 dioptre lenses. Plano lenses, if preferred are available and can be fitted as shown in fig.5.



Scleral Depressors

Scleral Depressors are available to view the ora serrata.



13. Warranty



No user serviceable parts – all preventative maintenance and servicing must only be performed by authorised Keeler representatives

Your Keeler product is guaranteed for 3 years and will be replaced, or repaired free of charge subject to the following:-

- Any fault due to faulty manufacture
- The instrument and accessories have been used in compliance with these instructions
- Proof of purchase accompanies any claim.

Please note:

The LED for the Vantage Plus LED models is guaranteed for 5 years.

Batteries are covered by this warranty statement for 1 year only.



14. Contact and disposal information



Keeler Limited
Clewer Hill Road

Windsor

Berkshire SL4 4AA

Freephone: 0800 521251

Tel: +44 (0)1753 857177

Fax: +44 (0)1753 827145

Keeler Instruments Inc.

3222 Phoenixville Pike

Building #50

PA 19355, USA

Toll Free: 1 800 523 5620

Tel: 610 353 4350

Fax: 610 353 7814

Disposal of old Electrical and Electronic Equipment

(Applicable in the European Union and other European Countries with separate Collection Systems)



This Symbol on the Product or on its Packaging and instructions indicates that it was put on the market place after August 2005 and that this product shall not be treated as Household Waste.

To Reduce the Environmental impact of WEEE (Waste Electrical Electronic Equipment) and minimise the volume of WEEE entering landfills we encourage at Product end of life that this Equipment is recycled and reused.

If you need more information on the collection reuse and recycling then please contact B2B Compliance on 01691 676124 (+44 1691 676124)





EP59-19017 issue F

