

Keeler

Ophthalmic Instruments

2008 International Catalogue

Keeler

Decades of innovation

When you buy a Keeler instrument – What are you buying? Almost a century of experience in optics!

Keeler has been manufacturing ophthalmic instruments since 1917. We continue to lead the market with our innovative instruments. This has been achieved through our continuous program of customer involvement in the design process to ensure our instruments meet the rigorous demands of daily practice.



The Finest Indirect Ophthalmoscopes in the World

2008 sees the introduction of our latest binocular indirect ophthalmoscope – Vantage Plus LED which provides brighter, whiter illumination to give you better detail of the retina. Plus our new light Slimline Lithium Polymer battery gives you much longer battery life.

UK manufacturer

We still manufacture and assemble our instruments in the UK. Combining optical precision, high quality illumination, ergonomic design and lightweight, durable materials to provide you with the best possible choice of equipment.

Reliability

The warranty on Direct Ophthalmoscopes, Retinoscopes and Indirect Ophthalmoscopes is 3 years with the exception of batteries and power supplies. All other products carry a one year parts and labour warranty.

Service

Keeler Technical Services will carry out repairs and routine maintenance to your equipment on your premises or in our workshop in Windsor – whichever is more appropriate.

Local Distributor:



Fifth generation Pulsair

A milestone in Tonometry

“A milestone in Tonometry” describes perfectly the new Pulsair IntelliPuff™ non contact Tonometer.

Earlier versions of Pulsair provided excellent clinical results and proved to be a major step forward in both ease of use and user acceptability, our primary goal in the redesign programme was to completely surpass them with an entirely new model that will provide even greater accuracy, patient comfort and speed of use.

In addition our development team singled out its weight and size as being in need of a slimming programme. Users are looking for as small a ‘footprint’ as possible and our distributors for even lower shipping charges. From the patient’s perspective we targeted ourselves to reduce the puff intensity and duration to such a level it will be hardly noticed.

Contents

1. Binocular Indirect Ophthalmoscopes .p4-13

Vantage Plus	p6-9
All Pupil II	p10
Spectra Plus	p11

Wireless Indirect Power Supplies .p12-13

New Slimline Lithium Polymer Battery,	
Standard Lithium Battery,	
New Slimline Wireless Charger,	
Standard Wireless Charger	

Wired Indirect Power Supplies .p13

SmartPack, WallPack	
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2. Cryomatic .p14-15

Cryomatic, System Probes and Stand	
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3. Surgical Loupes .p16-18

SuperVu Galilean system	p16
New SuperVu Hi-Res Galilean system	p16
XL Advantage system	p17
New K-L.E.D. head light	p18

4. Direct Ophthalmoscopes .p19-25

Specialist Ophthalmoscope	p21
Professional Ophthalmoscope	p22
Pocket Ophthalmoscope	P22
Professional Combi Retinoscope	p23
Near Point Cards, Handles, Rubber Handle Sleeves	p23
Ophthalmoscope / Retinoscope Sets	P24
Wall Units	P24

Direct Ophthalmoscope Power Supplies .p25

Lithium-ion Double Charger, Lithium-ion Mini Charger,	
Lithium Battery	

5. Tonometers .p26-29

Keeler Pulsair intelliPuff	p26-28
Keeler Goldmann type applanation Tonometers	p29

6. Slit Lamps and Video Slit Lamps .p30-32

Video Slit Lamp and video options	p30
Tower Illumination systems	p31
Zeiss type systems	p32
Javal Keratometer	p33

7. Practice Essentials .p33-43

CSO Vision Chart	p34
Pro-Chart Chart Projector	p34-35
Test Types	p35-36
Trial Frames	p37
Trial Lens Sets	p38-39
Occluders and Accessories	p39
Cross Cylinders, Twirls and Confirmation Tests	p40
Children's Tests and Near Vision Reading Tests	p41
Colour Vision Tests	p41-42
General Tests	p42-43

Binocular Indirect Ophthalmoscopes

Since 1957, when we introduced the Fison, our first binocular indirect ophthalmoscope, Keeler has developed a reputation as the innovator in the development and manufacture of indirect ophthalmoscopes. 2003 was no exception and saw the introduction of the first Keeler "Wireless" indirect ophthalmoscopes available on our All Pupil or Vantage Plus models.

2008 saw the introduction of the Vantage Plus LED which provides brighter, whiter illumination to give you better detail of the retina. Plus our new light Slimline Lithium Polymer battery gives you much longer battery life.

The next couple of pages will guide your choice but first read on to discover the benefits shared by all Keeler indirect ophthalmoscopes as standard.



Go Wireless with Vantage Plus - the market leading indirect ophthalmoscope!

New LED exclusively on Vantage Plus and Spectra Plus

LED another first in innovation. We are pleased to present a binocular indirect with LED illumination. The LED cooler colour provides a brighter, whiter illumination providing greater detail, allowing you to find retinal pathology that is not visible with Xenon illumination.

Comfort and balance

Lightweight materials are used throughout the design of each unit; combined with soft cushioning and a non slip contoured shaped headband to maximise comfort and balance. These features will be particularly appreciated during long examinations.

Clear, sharp images – enclosed KeeView Optics™

All Keeler indirect optics are specially coated and individually laser aligned to provide the sharpest clearest images every time you use your indirect, time after time, after time.

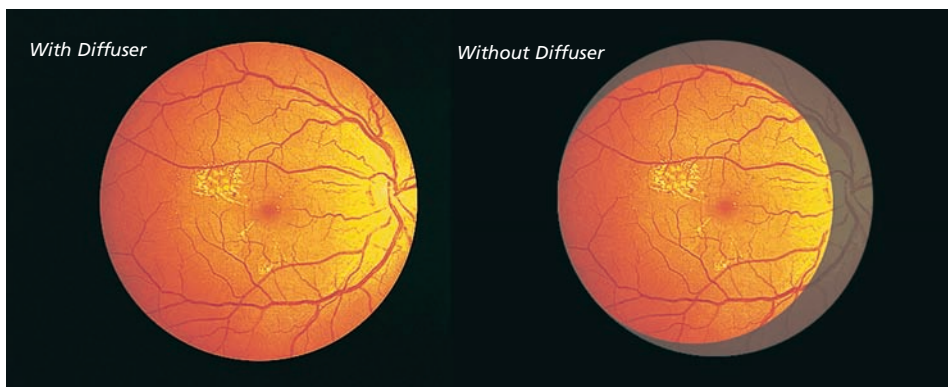
Adjustable brilliant illumination

Why have all of the controls on the wall when the instrument is on your head? On All Pupil and Vantage Plus the illumination rheostat is located on the headband providing easily accessible fully controllable light. Keeler indirects have the brightest illumination that can be turned down to as low as 2% of maximum if required.





Wide angle diffuser


The Keeler wide angle diffuser eliminates shadows on the edge of the condensing lens expanding the field of view significantly, which is particularly useful during difficult and peripheral examinations. There is also less discomfort for the patient because the light is softer.





Apertures and filters


 **Red Free** - This filter is used to examine blood vessels in fine detail. By filtering out the red light, blood vessels are silhouetted against a green background.

 **Cobalt Blue** - This filter is used with fluorescein dye for angiography.

 **Large Aperture** - Ideal when examining fully dilated pupils.

 **Intermediate** - Ideal for children and sensitive patients.

 **Small Aperture** - Ideal for undilated pupils.

 **Diffuser**

Vantage Plus

The best just gets better

New LED illumination and Slimline Lithium Polymer battery

We are delighted to present the new, exclusive Vantage Plus LED.

The LED cooler colour provides brighter, whiter illumination, longer battery life, and freedom from purchasing bulbs. The LED life expectancy is up to 10,000 hours.

Clinically, the superior optics combined with the LED illumination could provide greater detail, allowing you to find retinal pathology that was not visible with the Xenon bulb BIO's.



*New Slimline Lithium Polymer Battery
(paper clip shows scale)*

Our new Slimline Lithium Polymer battery is as light and as small as the new mini iPod.

- Longest life, brightest and whitest, better detail
- 25% brighter than standard bulbs
- New Slimline Lithium Polymer battery weighs only 53 grams
- Combined LED and Lithium Polymer battery can provide up to 6 hours of use on a single charge



Unique - Intelligent Optical System (IOS)

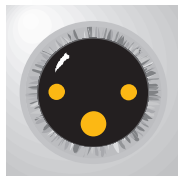
(Patent pending)

At last - now when you change the aperture the optics and mirrors automatically adjust for you, without the need to flip another lever!

Keeler has designed this unique one step movement to make your examinations easier and faster. The (IOS) mechanism (patent pending) means that when you select the small, medium or large aperture the optics automatically adjust, providing 3 dimensional stereoscopic views of the retina through all pupil sizes.

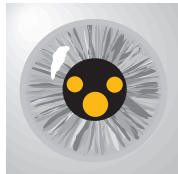
Large Pupil

When looking through a large fully dilated pupil the optics are separated and the light source remains in the upper position, achieving maximum stereopsis.



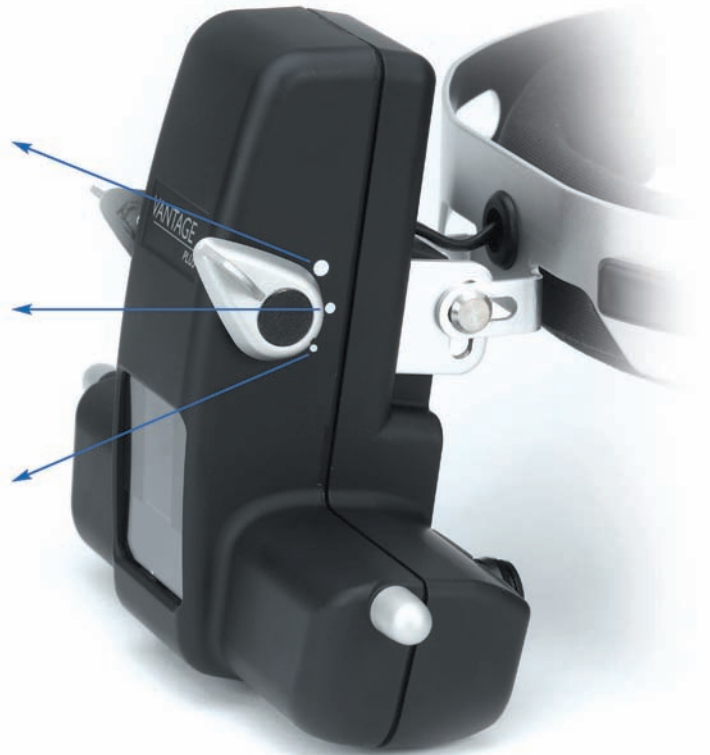
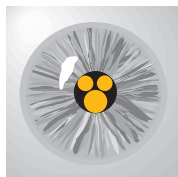
Intermediate Pupil

The viewing optics and light sources are in a 'mid position' for maximum stereopsis.

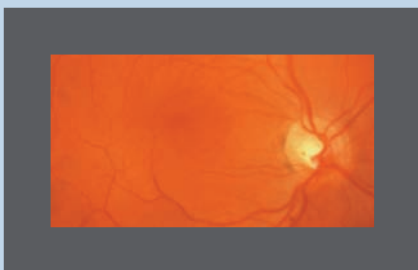


Small Pupil

When looking through a small pupil the viewing optics and light source are converged to allow you to view the retina through the smallest pupils stereoscopically.



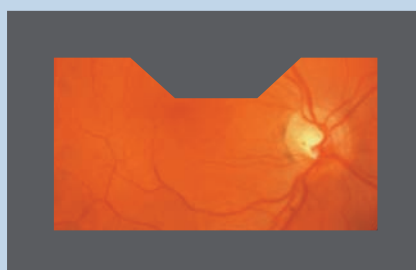
Exclusive - IOS Optics allows Small Pupil Imaging without any obstructions



Vantage Plus IOS Optics

View through Vantage Plus with IOS Optics.

When small pupil is selected there is no obstruction of the retina.



Non IOS Optic System

View through NON IOS Optical Systems.

When small pupil is selected there is an obstruction, reducing your clinical information.

Quality and efficiency

The redesigned optics combined with the new LED or Xenon light source offer brighter high definition retinal images - PLUS you get more life from whichever Keeler battery (Metal Hydride or Lithium) you use.

15% lighter

The Vantage Plus uses advanced textured engineering materials, providing a lighter, smaller and more compact instrument without compromising the renowned Keeler reputation for robustness, reliability and quality.

Comfortable and perfectly balanced

A new soft cushioned headband has been designed to maximise comfort, it adjusts and balances perfectly to suit all head shapes and sizes.



The new teaching mirror just slides on and off with ease

Allowing two observers to view the retina at the same time.

Unique - Go Wireless patented technology

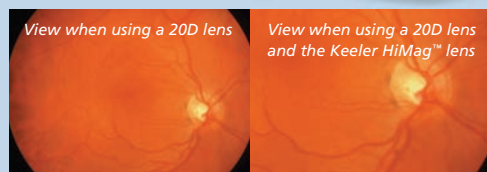
Total freedom - our patented wireless technology leaves you free to move around without any wire or cord constraints.

Never run out of power

Keeler wireless system comes standard with two lithium batteries (slimline) and they last so long, it may take months before you need to charge them again.

Unique - The new HiMag™ (patented) lens just slides on and off with ease

This unique feature is only offered with the Vantage Plus indirect. It gives you a 1.6X additional magnification than with a condensing lens alone, providing superb stereoscopic images. Scratch resistant coated optics guarantee high quality images at all times and HiMag™ can be simply flipped out of view when not required.



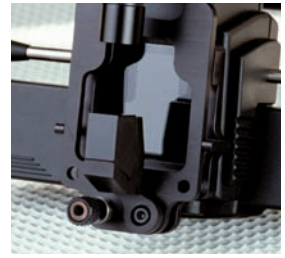
New high contrast optics

The new compact and high contrast viewing optics use LED or Xenon illumination that gives you brilliantly crisp, glare free, superior views of the retina every time.



Video Vantage (Patented)

Video Vantage is a compact, lightweight video mounting device for use with a high resolution up to date miniature camera. It is ideal for teaching, tele-medicine, patient education and documentation. Keeler's Penta Prism Video Optical system means no beam splitters, no mirrors and no light loss. What you see on the monitor is exactly what you see through the Vantage – the same way up, the same way round and just as bright. A unique feature is the independent image alignment control, which provides a totally comfortable working angle.



Filters and Apertures

IR/UV filters are built into the optics of the Vantage Plus with optional filters and a choice of 3 apertures plus a soft light diffuser.



P D Range: 48 - 76mm

New slim professional carrying case!

Transport your instrument in style and choose if you want to use your wheels or carry it on your shoulder.



Part Numbers	Wireless LED version
1205-P-1016	Vantage Plus LED, Slimline Battery & Accessories*
1205-P-1020	Vantage Plus LED, Slimline Battery & charger
1205-P-1015	Vantage Plus LED, Standard Battery & Accessories*
1205-P-1019	Vantage Plus LED, Standard Battery & charger
	Wireless Bulb version
1204-P-3065	Vantage Plus Bulb version, Slimline Battery & Accessories*
1204-P-3067	Vantage Plus Bulb version, Slimline Battery & charger
1204-P-3059	Vantage Plus Bulb version, Standard Battery & Accessories*
1204-P-3056	Vantage Plus Bulb version, Standard Battery & charger
	Wired LED version
1205-P-1011	Vantage Plus LED Wired & Accessories*
1205-P-1010	Vantage Plus LED Wired
	Wired Bulb version
1204-P-3058	Vantage Plus Bulb version Wired & Accessories*
1204-P-3051	Vantage Plus Bulb version Wired
	Accessories
1202-P-7205	Vantage Plus Teaching Mirror
1202-P-7192	Vantage Plus Hi Mag Lens
1012-P-7006	Vantage Plus Bulbs (pack of 2)
1299-P-1028	Video Vantage including Camera in Carrying Case
3412-P-7000	Vantage Plus Carrying Case
1201-P-6075	Small Depressor
1201-P-6067	Large Depressor

Vantage Plus and All Pupil bulb



*Accessories include: Volk 20D Lens, Small and Large Thimble, Pad of 50 Recording Charts, Teaching Mirror Assembly, Set of 12 Colour Pencils, Wireless charger, battery pack assembly (Wireless), Smart Pack Power Supply and Rechargeable Battery (Wired), Spare Bulb (bulb versions only) and Carrying Case.

All Pupil II

Light, bright and easy to use

All Pupil II is based on the design of the number one selling All Pupil indirect. Look out for the new features designed to make your examinations easier and more comfortable.

Go Wireless patented technology

Total freedom - our patented wireless technology leaves you free to move around without any wire or cord constraints.



Outstanding brightness for difficult examinations

With 2000 lux of light, which can be turned down to 2% of total illumination when necessary, All Pupil II offers maximum illumination with total control.

Lightweight and comfortable

The new design weighs just 520 grams and extra padded materials have been incorporated into the headband to make this indirect extremely comfortable for all examinations.

Simple controls

The All Pupil II has a unique single control to change aperture size and position in one movement to view through all pupil sizes.

IR and UV barrier

There is a built in full time IR and UV barrier which guarantees improved patient protection and safety.



P D Range: 47 - 75mm

Part Numbers	1204-P-3041	Wireless All Pupil II Kit A with Power / Accessories
	1204-P-3043	Wireless All Pupil II with Lithium Battery and Holder
	1204-P-3038	Wired All Pupil II Kit A with Power / Accessories
	1204-P-3036	Wired All Pupil II without Power
	Accessories	
	1202-P-7117	All Pupil II Teaching Mirror
	1012-P-7003	All Pupil Bulbs (pack of 2)
	3412-P-7000	All Pupil II Carrying Case
	1201-P-6075	Small Depressor
	1201-P-6067	Large Depressor

Spectra Plus

Little indirect, big benefits

Spectra Plus has been specifically designed as a compact, lightweight and portable indirect with big benefits for professionals on the move. It can be tucked away in its neat carrying case or hung around your neck when not in use.



LED long lasting illumination...

and - unbelievably - no more bulbs. That's right... No more bulbs! Just a long lasting, white homogeneous light patch.

Keeler Sport Frame

Spectra Plus comes on the new Keeler Sport Frame. This new wrap around frame is not only attractive but provides maximum comfort and balance and comes in a range of metallic colours (see below).



Flip up optics

The whole optical box and light pod can be flipped up allowing direct eye contact when talking to patients or for writing notes.

Carrying case

A little case for a little indirect.



P D Range: 48 - 76mm

Variable PD

No restrictions. Just adjust your PD when you need it. It has a wide range between 48 to 76mm.

Wear with your own prescription

You can wear your Spectra Plus over your frame or have your own lens prescription put in.

Great Lightweight Lithium ion Battery

The small compact Lithium ion battery simply clips on to your belt and can be stored in its charger when not in use. It provides up to 4 hours continuous use on time.



Part Numbers	1205-P-1000	Spectra Plus Indirect on Blue Keeler Frame
	1205-P-1001	Spectra Plus Indirect on Red Keeler Frame
	1205-P-1002	Spectra Plus Indirect on Black Keeler Frame
	1205-P-1003	Spectra Plus Indirect on Sky Blue Keeler Frame
	Accessories	
	1205-P-7000	Spectra Plus Teaching Mirror
	1919-P-5215	Spectra Plus Rechargeable Battery
	1941-P-5385	Spectra Plus Lithium Charger and Battery
	3412-P-7002	Spectra Plus Carrying Case
	1201-P-6075	Small Depressor
	1201-P-6067	Large Depressor

Spectra Plus systems are supplied with a lithium battery, charger, indirect and choice of Keeler Sport Frame.

Wireless Indirect Power Supplies

Keeler wireless technology allows you to move from room to room without any constraints. The chargers are either desktop or wall mountable, and store an extra lithium battery as a back up, should you need it.

New Slimline Lithium Polymer Battery

The New Slimline Lithium Polymer battery can give you up to 6 hours of use, weighs only 53 grams, and is nearly 70% lighter than the standard battery. It is also much smaller and can fit nicely into the palm of your hand.



Part Number 1919-P-5338 Slimline Lithium Polymer Battery

Standard Lithium Battery

Our original lithium battery lasts up to 11 hours of use and fits neatly into the charging unit.



Part Number 1919-P-1013 Standard Lithium Battery



New Slimline Lithium Polymer Battery



Standard Lithium Battery

New Slimline Wireless Charger

The new wall mountable charger remains as durable as the Standard Wireless battery charger with the facility to store your extra battery in the top compartment. The charger has an easy release button to remove your extra battery.



Part Number 1945-P-5012 Slimline Wireless Charger

Standard Wireless Charger

The Standard Wireless Charger can be wall or desk mounted with location for spare battery, which means you will always have a back-up. LED indicates when battery needs charging.



Part Number **1941-P-1384** Standard Wireless Charger

Wired Indirect Power Supplies

SmartPack

SmartPack is a stylish power supply system that combines 3 options in one product. No longer will you need to purchase a portable system for domiciliary use, another system for mounting on your wall and another for tabletop use.

Fast charge and long life

Nickel Metal Hydride technology provides a genuine long life and a fast charge. Instruments can be used when battery is charging. LEDs indicate when battery life is low, charging or fully charged.



Part Numbers **1945-P-1001** SmartPack
 EP39-22079 SmartPack Battery

WallPack

Alternatively, if your power supply needs to be stationary you can purchase the WallPack which fits neatly on the wall. Your indirect can be mounted on the bracket it comes with.

Part Number **1945-P-1000** WallPack



Which system is right for you?

Vantage <i>Plus</i> Usable Life		
Power Source	LED	Bulb
Slimline Battery	6 hours*	1.5 hours*
Standard Battery	11 hours*	2.5 hours*
SmartPack	17 hours*	4.25 hours*

* This measurement is based upon the illumination being used at normal examination power

Cryomatic

The new standard in ophthalmic cryo-surgery

Keeler, the first name in Ophthalmic Cryo Surgery. Changes in technology and surgeons' requirements have allowed us to improve and automate our range of Ophthalmic Cryosurgical instruments.



The Cryomatic console employs smart technology

What does this mean?

In this case it means that there is electronic communication between the console and any probe that is connected to it. The console therefore knows the optimum operating parameters for any given probe and self-adjusts accordingly. Put another way, the console auto-configures to probe characteristics.

What are the benefits?

The major advantages are that there is no longer any need to manually set up the system at the start of or during any procedure and that every probe will automatically always perform optimally.

Does this mean that the gas pressure is set automatically?

Yes it does. No manual adjustment is necessary.

Another unique feature of the Cryomatic console is that it has back-flush facility

What does this mean?

During purging and for about 20 seconds after the footswitch is released, the gas in the system reverses its flow, but at a lower pressure.

What are the benefits?

This changed direction of gas after a freeze moves any debris or moisture that may be accumulating, thereby virtually eliminating the risk of problems during surgery.

Keeler Cryomatic System Probes

The Probes

- ① Standard Retinal Probe
2509-P-8000
- ② Extended Retinal Probe
2509-P-8001

Special Order Range

- ③ Mid-reach Retinal Probe
2509-P-8002
- ④ Glaucoma Probe
2509-P-8005
- ⑤ Curved Cataract Probe
2509-P-8004
- ⑥ Intra-vitreous Probe
2509-P-8003
- ⑦ Collins Trichiasis Probe
2509-P8006

The Keeler Cryomatic System including the probes, results from a complete re-engineering process aimed at producing greater reliability and a better freeze, as well as simplicity of set-up and operation, all of which combine to make it uniquely superior.

Whilst retaining classical tip configurations, the probes and their manufacturing processes have been fundamentally redesigned to minimise blocking due to impurities in the cryogen gas or from moisture resultant from sterilising.



Cryomatic Stand – Holds Cryomatic and one gas cylinder

Part Numbers	2509-P-1000	Cryomatic Cryo Console
	2509-P-8000	2.5mm Standard Retinal Probe
	2509-P-8001	2.5mm Extended Retinal Probe
	2509-P-8002	2.5mm Mid-reach Retinal Probe
	2509-P-8003	0.89mm Intra-vitreous Probe
	2509-P-8004	1.5mm Curved Cataract Probe
	2509-P-8005	3mm Glaucoma Probe
	2509-P-8006	4X10mm Collins Trichiasis Probe
	2508-P-7015	Pin Index Yoke for E Size CO2 Cylinder
	2508-P-7017	Pin Index Yoke for E Size N2O Cylinder
	2508-P-7016	CO2 F Size Cylinder Adaptor
	2508-P-7018	N2O F Size Cylinder Adaptor

Keeler Cryomatic Accessories

Part Numbers	2508-P-7005	Cryomatic Stand (Trolley)
	2509-P-8015	Sterilization Box (not included with pencil)

Surgical Loupes

The brand choice for Dental, Surgical and Veterinary Professionals

Magnification allows you to do a better job. If you can't see it, you can't work on it. The benefits of Keeler loupes are immediately clear: improved working posture, reduced eye strain and now, with the new K-L.E.D. head light, your working view is even clearer.

Laser aligned optics for magnification of superb optical quality, a lightweight aluminium assembly and a precise pupil alignment system make Keeler loupes the perfect choice for dental, surgical and veterinary professionals.



SuperVu Galilean system

Delivering 2.0x and 2.5x magnification.

The true benefit of this system is ease of use. Movement whilst maintaining focal clarity is possible due to superior depth of field. The lightweight aluminium bar with individual pupillary adjustment provides the mounted loupes with stability and optimal focal alignment, eliminating headache and eyestrain.



SuperVu Galilean system

SuperVu Hi-Res Galilean system

Delivering 3.0x magnification.

Keeler have designed a new high resolution Galilean loupe which exceeds the standards previously attained. The 5 element loupe gives a true 3x magnification with a 15% increased field of view and a visually flat field from edge to edge.



NEW SuperVu
Hi-Res Galilean system



Protective Caps

SuperVu Galilean system Part Numbers

2.0x Magnification

2112-P-1002 SuperVu 2.0x @ 34cm working distance

2112-P-1003 SuperVu 2.0x @ 46cm working distance

2.5x Magnification

2112-P-1010 SuperVu 2.5x @ 34cm working distance

2112-P-1011 SuperVu 2.5x @ 42cm working distance

2112-P-1012 SuperVu 2.5x @ 46cm working distance

2112-P-1013 SuperVu 2.5x @ 50cm working distance

SuperVu Hi-Res Galilean system Part Numbers

3.0x Magnification

2112-P-1050 SuperVu Hi Res 3.0x @ 34cm working distance

2112-P-1051 SuperVu Hi Res 3.0x @ 42cm working distance

2112-P-1052 SuperVu Hi Res 3.0x @ 46cm working distance

2112-P-1053 SuperVu Hi Res 3.0x @ 50cm working distance

SuperVu accessories

2112-P-8049 Protective Caps

2112-P-8057 +1D Near distance Caps

Let Keeler loupes take the strain

Keeler loupes are comfortable to wear and work with, helping to reduce eyestrain. By bringing your patients closer, you can improve your posture and avoid stooping.

Patient comfort

Patients will feel more comfortable and at ease with increased personal space as you will work from a greater distance.

Multiple magnification levels

Keeler loupes offer performance matched to your requirements. Multiple magnification levels enable you to see more, spot problems earlier and offer even higher levels of precision treatment.

XL Advantage system

Delivering 3.5x, 4.5x and 5.5x magnification.

Higher magnification for advanced surgical procedures. Prismatic quality guarantees a true image. Edge to edge clarity and precise colour rendition are ideal for intricate applications. The XL's precision lenses are treated with an anti-reflective coating to produce a superior image.



XL Advantage system

XL Advantage system Part Numbers

3.5x Magnification

2113-P-2004 XL Advantage 3.5x @ 34cm working distance

2113-P-2005 XL Advantage 3.5x @ 42cm working distance

2113-P-2006 XL Advantage 3.5x @ 46cm working distance

4.5x Magnification

2113-P-2008 XL Advantage 4.5x @ 34cm working distance

2113-P-2009 XL Advantage 4.5x @ 42cm working distance

2113-P-2010 XL Advantage 4.5x @ 46cm working distance

5.5x Magnification

2113-P-2012 XL Advantage 5.5x @ 34cm working distance

2113-P-2013 XL Advantage 5.5x @ 42cm working distance

2113-P-2014 XL Advantage 5.5x @ 46cm working distance

Keeler Sport Frames

All Keeler loupes are available on the new Keeler frame.

Stylish, comfortable and attractive, the new Keeler frame is available in a choice of bright colours as shown. The frames will fit over many styles of glasses, or with the free insert, can be easily adapted to all prescriptions.



Sky Blue



Black



Blue



Red

New K-L.E.D. gives long lasting white light

The K-L.E.D. head light produces a homogeneous light patch of up to 18000 lux.

The 3W L.E.D. is mounted paraxially on the loupe bar and is powered by a lithium battery pack allowing 4 hours of continuous use.

The K-L.E.D. is available in two packages; a twin charger with a tray to hold loupes when not in use that will charge two batteries simultaneously, or a kit bag with a compact single charger that gives the K-L.E.D. even greater portability. Both are available with either a universal clip for attachment to most brands of metal framed loupes or glasses, or a fitting for all current and previous model Keeler loupes.



NEW K-L.E.D. and SuperVu Galilean system



K-L.E.D. with single charger and bag



K-L.E.D. and SuperVu Galilean system in twin charger tray

Part Numbers

2004-P-1007	Keeler fit K-L.E.D. system with twin charger tray
2004-P-1009	Universal fit K-L.E.D. system with twin charger tray
2004-P-1011	Universal fit K-L.E.D. system with single charger and bag
2004-P-1012	Keeler fit K-L.E.D. system with single charger and bag

Designed for comfort

Choose from the new Keeler Sport frame or a headband mounted system to mount your loupes. Adaptable to all prescriptions.



Direct Ophthalmoscopes

A combination of optical perfection, superb ergonomics and versatile features make Keeler direct ophthalmoscopes the ideal choice. Whatever your requirement from basic examination to detailed diagnosis, there is a Keeler ophthalmoscope for you. The next couple of pages will guide your choice but first read on to discover the benefits shared by all Keeler ophthalmoscopes as standard.

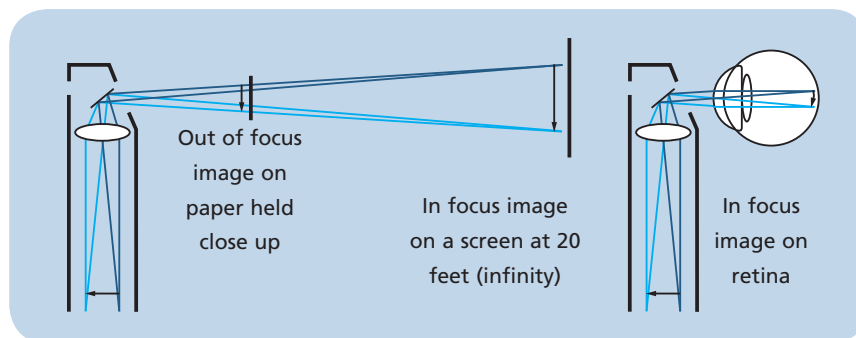


The Specialist - the World's finest direct ophthalmoscope



Keeler optical system – the more you see the better the diagnosis

Keeler Ophthalmoscopes are adjusted for perfect focus where it's needed - in the eye, not on paper. Along with Keeler's wide angle light beam and individual mirror alignment, this ensures that whatever the patient's pupil size, you will see the clearest view of the retina.



Comfort and fit

With curved surfaces and subtle patient side marking, each ophthalmoscope has been designed to fit snugly into the orbital bone. Unlike other straight sided brands, the contoured, curved ophthalmoscope head guarantees an optimal viewing angle and the smooth line surfaces ensure a patient friendly non-threatening instrument.

Slimline handles

Keeler hand holds are supplied on a slimline, lightweight robust handle.

Light, tough and built to last

Keeler ophthalmoscopes are built from resilient, lightweight materials to give you many years of trouble free service. High impact resistant covers combined with a strong, rigid chassis protect the carefully aligned optics and allow Keeler ophthalmoscopes to withstand the rigours of everyday use for years to come.

Controllable light for bright, clear images

The bright white Halogen or Xenon illumination is fully adjustable from zero. This ensures the comfort of your patients and the best possible diagnosis for you.

Reflex free images

Individually controlled optics reduce the effect of corneal reflex whilst minimising shadows and providing clearer retinal visualisation.



Apertures, graticules and filters

Wide Angle - Illuminates the largest area of fundus for the best possible general diagnosis through a dilated pupil.

Intermediate - Permits easier access through an undilated pupil and in peripheral examination. Particularly useful in paediatric examination.

Macular - Designed specifically for examination of the macular region of the fundus where a larger beam would create excessive pupillary reaction or patient discomfort.

Slit - Used primarily to determine retinal elevations and depressions but may also be used to assess anterior chamber depth.

Glaucoma - Projects a graticule onto the retina to assess the optic cup/disc ratio as an aid to glaucoma diagnosis.

Fixation Cross - Projects a graticule onto the retina for assessment of the degree and direction of eccentric fixation.

Semi Circle - Provides a combination of depth perception and field of view.

Red Free - The red free filter is used to examine blood vessels in fine detail. By filtering out the red light, blood vessels are silhouetted black against a dark green background.

Cobalt Blue - Used in conjunction with fluorescein dye for the detection and examination of corneal scars and abrasions.

Specialist Ophthalmoscope

The World's finest

We recognise that illumination is of fundamental importance to good diagnosis. The new re-engineered optics give 30% more Xenon illumination. And because it is longer lasting that means fewer bulb changes giving greater peace of mind.

30% more illumination

Re-engineered optics give 30% more illumination to get through cloudy media, cataracts, etc.

Lightweight and well balanced

Almost 50% lighter, the new Specialist combined with the lithium handle is perfectly balanced.

Expanded dioptré range

The Specialist offers the most comprehensive lens range available in a direct ophthalmoscope +44D to -45D lens range in 1D steps, guarantees optimal diagnosis in any situation.

Slimmer optics

Slimmer and enclosed viewing optics enable you to get closer to the eye providing a wider field of view.

Premium hand made optics

The Morton Lens Track system, made up of individually ground glass lenses ensures an optimal view.

New Cobalt Blue filter

The new blue filter can be used in conjunction with fluorescein dye for the detection and examination of corneal scars and abrasions.

Pupillometer gauge

The pupillometer disc allows quick and easy estimation of pupil size.



Part Numbers	1132-P-1157	3.6V Specialist Ophthalmoscope on Lithium Handle
	1132-P-1149	2.8V Specialist Ophthalmoscope on Dry Cell Handle
	Accessories	
	1011-P-7034	Pack of 2 Vista 20/Specialist Ophth. Bulbs 3.6V Xenon
	1011-P-7042	Pack of 2 Vista 20/Specialist Ophth. Bulbs 2.8V Halogen

Professional Ophthalmoscope

Total control at your fingertips

The Professional Ophthalmoscope has been designed to ensure ultimate control. Lenses, graticules and filters can all be introduced at the touch of a fingertip without the need to pull away from the patient.

Positive action maywheel and comprehensive lens range

The positive action easy access maywheel not only allows you to dial up the required lens quickly, but also gives you total control of where you are in the lens range making each exam quicker and easier. The extensive range of +29D to -30D in single dioptre steps ensures easy examination of all ocular structures and covers a wide range of patient/user prescriptions. A quick step swing of +/- 20D helps speed up diagnosis.



Xenon illumination

The Professional also uses Xenon illumination for a brighter and whiter long lasting light. Giving you more power and fewer bulb changes.

Swing over filter

The red free filter for enhanced vessel examination can be used in conjunction with any of the 6 diagnostic beams.

Brow rest

The integral soft brow rest allows for easy positioning and protects your lenses if you are a spectacle wearer.

Professional Ophthalmoscope bulb



Part Numbers	1128-P-1014	3.6V Professional Ophthalmoscope on Lithium Handle
	1128-P-1013	2.8V Professional Ophthalmoscope on Lithium Handle
	Accessories	
	1011-P-7114	Pack of 2 Professional Ophthalmoscope Bulbs 3.6V Xenon
	1011-P-7106	Pack of 2 Professional Ophthalmoscope Bulbs 2.8V Xenon



Pocket Ophthalmoscope

Portable and compact

Full diagnostic capability in a compact instrument make the Pocket Ophthalmoscope ideal for the practitioner on the move.

Portable

An ideal choice for domiciliary and ward use or as a back up instrument.

Pocket clip

It has a strong metal clip that can be attached to a pocket and is powered by standard AA batteries.



Comprehensive lens range

Lens range from +20D (+1,2,3,4,6,10,15,20) to -20D (-1,2,3,5,10,15,20) for clear and effortless examination of ocular structures.

Pocket Ophthalmoscope bulb



Part Numbers	1102-P-1041	Pocket Ophthalmoscope
	1011-P-7050	Pack of 2 Pocket Ophthalmoscope Bulbs 2.8V Halogen



Professional Combi Retinoscope

A genuine bimodal retinoscope

Optimised for outstanding performance with either a Streak or Spot beam with a simple bulb change.

Brilliant halogen illumination

With up to 600 lux of brilliant Halogen illumination, the Professional Combi guarantees you enough light to refract even the most difficult eyes.

Neutralisation check (Patented)

This is the only Retinoscope allowing rapid confirmation of neutralisation. In both Streak and Spot modes you can change the beam from divergent to convergent enabling you to cross check the accuracy of the neutral point. The ability to double check neutralisation in the upper position guarantees the assessment is correct the first time and every time.

Precision magnetic control (Patented)

The Professional Combi offers improved 360° access to a single control for both rotation and convergence adjustments. The precision movements are achieved by use of rare earth magnet technology.

Two position aperture

A simple finger movement allows a choice of 4mm or 1.7mm aperture to optimise brightness or resolution of the retinal reflex.

Unique spectacle bar

An interchangeable soft pad is available for spectacle wearers.



Part Numbers	1302-P-1011	Professional Streak Retinoscope 3.6V
	1302-P-1009	Professional Spot Retinoscope 3.6V
	1302-P-1010	Professional Streak Retinoscope 2.8V
	1302-P-1008	Professional Spot Retinoscope 2.8V
Accessories		Professional Combi Retinoscope Bulbs
	1013-P-7009	Pack of 2 Professional Streak Retinoscope bulbs 3.6V
	1013-P-7011	Pack of 2 Professional Spot Retinoscope bulbs 3.6V
	1013-P-7008	Pack of 2 Professional Streak Retinoscope bulbs 2.8V
	1013-P-7010	Pack of 2 Professional Spot Retinoscope bulbs 2.8V
		Vista Retinoscope Bulbs
	1013-P-7009	Pack of 2 Semi Reflector or Full Aperture Streak Bulbs 3.6V
	1013-P-7007	Pack of 2 Semi Reflector or Full Aperture Spot Bulbs 3.6V
	1013-P-7008	Pack of 2 Semi Reflector or Full Aperture Streak Bulbs 2.8V
	1013-P-7006	Pack of 2 Semi Reflector or Full Aperture Spot Bulbs 2.8V

Professional/
Vista Spot
Retinoscope
bulb



Professional/
Vista Streak
Retinoscope
bulb



Near Point Cards for Retinoscopy



Part Number 1321-P-7021

Rubber Handle Sleeve



Part Number EP29-05365

Keeler Handle



Part Numbers 1911-P-1201 3.6V Lithium Handle
1901-P-1101 2.8V Battery Handle

Ophthalmoscope/ Retinoscope Sets

You can purchase your Ophthalmoscope and Retinoscope in a slimline double handle case and add in a Lithium Double Charger.

Part Numbers	Specialist Ophthalmoscope/Retinoscope Sets
1427-P-1063	Specialist & Professional Streak Ret. Set 3.6v Lithium Battery
1427-P-1065	Specialist & Professional Spot Ret. Set 3.6v Lithium Battery
1427-P-1062	Specialist & Professional Streak Ret. Set 2.8v Dry Cell Battery
1427-P-1064	Specialist & Professional Spot Ret. Set 2.8v Dry Cell Battery
Professional Ophthalmoscope/Retinoscope sets	
1427-P-1059	Professional Ophth. & Streak Ret. Set 3.6v Lithium Battery
1427-P-1061	Professional Ophth. & Spot Ret. Set 3.6v Lithium Battery
1427-P-1058	Professional Ophth. & Streak Ret. Set 2.8v Dry Cell Battery
1427-P-1060	Professional Ophth. & Spot Ret. Set 2.8v Dry Cell Battery
1941-P-1368	Lithium Double Charger
1999-P-7308	Wall Bracket for above



Wall Units

Keeler's anti-theft designed Ophthalmoscopes and Retinoscopes have a lockable head and handle fitting so you'll always find them where you left them.

- Strong coiled tangle-free cable permits instrument use up to 3 meters from the transformer
- The robust construction is ideally suited to the busiest working conditions
- Automatic illumination when instruments are removed from cradle. With LED confirmation.

If you require a wall unit you will need to order the transformer unit which comes with the 2 x handles and each individual head.



Part Numbers	1964-P-2001	Double Cord handle power supply
	1132-P-1050	3.6V Specialist Ophthalmoscope head only
	1128-P-1004	3.6V Professional Ophthalmoscope head only
	1132-P-1042	2.8V Specialist Ophthalmoscope head only
	1128-P-1003	2.8V Professional Ophthalmoscope head only
	1302-P-1007	3.6V Streak Retinoscope head only
	1302-P-1005	3.6V Spot Retinoscope head only
	1302-P-1006	2.8V Streak Retinoscope head only
	1302-P-1004	2.8V Spot Retinoscope head only

Direct Ophthalmoscope Power Supplies

Lithium-ion Double Charger

The compact charger takes two handles and fits neatly into your immediate testing environment, allowing easy access to your hand held instruments. It can be table top or wall mounted.

Fast charge in 2 hours

A 2 hour fast charge means your instrument is always ready for use.

Over 2 hours of continuous use

Ideal for long examinations especially while first learning with your instrument.

LED displays

LEDs indicate when battery life is low, charging or fully charged.



Part Numbers	1941-P-1368	Lithium-ion Double Charger
	1911-P-1228	Lithium-ion Double Charger and 2 Handles (Upgrade Kit)

Lithium-ion Mini Charger

The Lithium-ion Mini charger can be connected quickly and simply to the base of your Keeler handle, making it the perfect choice for domiciliary visits or practitioners on the move.

Fast charge in 2 hours

A 2 hour fast charge means your instrument is always ready for use.

Versatile

Instruments can still be used whilst the battery is charging.

Provides over 2 hours of continuous use

2 hours continuous use is ideal for long examinations, especially while first learning with your instrument.

LED displays

LEDs indicate when battery life is low, charging or fully charged.



Part Numbers	1941-P-1341	Mini Lithium-ion Charger
	1911-P-1236	Mini Lithium-ion Charger plus Handle (Upgrade Kit)

Lithium Battery



Part Number	EP39-18918	Lithium Battery
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Tonometers

Keeler Pulsair IntelliPuff®

Our most comfortable and intelligent Non Contact Tonometer ever

The intelligence inside

The Keeler intelligent puff system giving you a quantum leap forwards in accuracy and ease of use. IntelliPuff® embodies electronic and optical technology to deliver you the speed, accuracy and ease of use you and your patients deserve. Accuracy guaranteed.

Ease of use

IntelliPuff® automatically senses when there is difficulty perhaps a dry eye or a damaged cornea and adjusts the automatic firing criteria accordingly – simple.

Keeler's unique algorithm will constantly evaluate your readings and ensure the tightest range is used to give you the final and perfect result every time.

When the intelligent system considers you have enough reliable readings for an eye, the sound system will let you know – no more guesswork and the minimum puffs per patient.

Time on target system – easier to use

Algorithm to ensure best readings – greater accuracy

Sounds to inform of the status of data gathered – greater confidence

Lighter puff – soft and gentle for your patients



Our softest puff ever

Gentle is understating the new system – and if the patient has high pressures the puff will automatically increase for the next measurement. Kind, intelligent and simple. Technology working for you.

Engineered to perfection

This 5th generation device is better than ever – there are no limits. This is the most accurate, smallest, quietest, lightest, fastest Pulsair ever.

No more bulbs to change – our new LED (Light Emitting Diode) illuminated targeting system will last a lifetime and never need changing. Cooler, 100% reliable, 100% consistent.

Cost effective – no sterile consumables to purchase, and printing is optional, so your ownership costs are insignificant.

More information, more control

intelliPuff® displays the 'rolling average' of your readings – the more data you have the better the result delivered. Outlying readings are automatically excluded by our algorithms. User control allows you to select your preferred user options, printing, sound notifications, display characteristics. intelliPuff® will self check the system and tell you all is well, confidence inspired.

Keeler

Name:

Date:

Time:

Right Eye:

Avg IOP: 10.4 mmHg

Data: (20), 10, 10, 10

Left Eye:

Avg IOP: 10.5 mmHg

Data: 10, 11, 10, 10



Hand-held and Non Contact

Save time, increase flexibility. Conventional chinrest devices take time to get the patient aligned and comfortable – just consider the total time wasted over a 12 month period adjusting table and chinrest heights and settling your patients. Time is our most precious commodity. Pulsair intelliPuff® gives you more time.

Objective Tonometry

The Pulsair intelliPuff® will only fire when perfect alignment and patient position have been achieved, thus removing all subjectivity from the measured result. Tonometry you can trust.

No need to get the patient to a chinrest – any patient, anywhere, supine or sitting it makes no difference – total versatility



For additional stability and to ensure the perfect conditions are met every time use the new 'pop out' forehead stabiliser

Desk top or wall mount

Save valuable space – Pulsair IntelliPuff® uses less than 50% of the space of conventional non contact tonometers and is the only model that can be wall mounted.

Whether you wall mount or prefer to place it on your desk you win the 'space war' every time. No special instrument table is required – put it where you want it. Move it when you want to. Total flexibility.



Space saving flexibility - IntelliPuff® is the only model that can be wall mounted!

Part Numbers	2414-P-2001	IntelliPuff unit
	2208-L-7008	Printer paper roll
	EP79-43563	12V Car Socket Power Adapter



Keeler Goldmann type applanation Tonometers

These top quality applanation Tonometers are built to the same exacting standards as the originals but at a fraction of the cost.

Accessories included

Whichever you select it will be supplied with a doubling prism and a guide plate or mounting post to fit most Tower Illumination Slit Lamps.

T type and R type

Choose between the flexibility of the 'Take-Away' (T type) or the security of the 'Fixed' (R type).



T type (Take-Away)

R type (Fixed)

Tonometer 'Fixed' post for SL-16 and SL-40 Tower Illumination Slit Lamps

'Take-Away' guide plate for SL-40, SL-16 and SL-33 Tower Illumination Slit Lamps

Part Numbers	2401-P-2700	Keeler Goldmann type Applanation Tonometer – 'Fixed' (R)
	2401-P-2698	Keeler Goldmann type Applanation Tonometer – 'Take-Away' (T)
	Accessories	
	2401-P-8037	Keeler Applanation Tonometer doubling prism
	3009-P-7004	Tonometer 'Fixed' post for most Tower Illumination Slit Lamps
	3009-P-7013	Tonometer 'Fixed' post for Keeler SL-33 Zoom
	3007-P-7002	Guide plate for 'Take-Away' for most Tower Illumination Slit Lamps

Slit Lamps and Video Slit Lamps

Quality without compromise. One of the most important diagnostic devices in ophthalmology and optometry is your Slit Lamp.

Making the right choice will pay dividends for years to come. Quality optics and illumination are fundamental to Slit Lamp examination and the Keeler and Kowa devices excel in these vital areas. You may want to image digitally or have the option to upgrade to imaging at a later date – look no further.



Video Slit Lamp and video options

Imaging is now an important part of the clinical process; whether it is for protection against litigation or simply to have a quality clinical record of the patient's conditions to monitor any change in the future, or, to help educate or impress your patient.

SL-40 Di Digital Slit Lamp

Building on the outstanding optical system of the Keeler SL-40H, the illumination system is upgraded, an external fibre optic illumination system with diffuser added and the optics optimised for a digital camera. The result is an excellent digital optical system for video imaging.

With the option of capturing stills or video clips this top quality affordable device represents superb value.

Supplied with image capture, viewing and enhancing software, this is a complete anterior segment system, a versatile and powerful retinal imaging system.



Part Number 3009-P-1013 Keeler SL-40 Di Digital fibre wire Slit Lamp complete on table top with software

Tower Illumination systems

Tower illumination systems, featuring up to 20° tilting tower illumination allows examination in the vertical, horizontal and oblique sections plus the option to offset the slit for corneal transillumination. Filters include Cobalt blue; green (red free); neutral density; heat absorbing.

SL-16

- Rapid magnification change from x 10 to x 16
- Conventional 13° convergent optical system
- Optional fibre optic external illumination system
- Rheostat base



Part Number 3009-P-1002 SL-16 Slit Lamp (x10 and x16)

SL-40H

- Drum change x6, x10, x16, x25 and x40 magnifications
- Comfortable 8.5° converging optics
- Optional beam splitter for imaging upgrade
- Optional fibre optic external illumination system
- Rheostat base
- Integrated yellow barrier filter for fluorescein examination



Part Number 3009-P-1010 SL-40 Slit Lamp on table top (x6, x10, x16, x25 and x40)

SL-33 Zoom

- Continuous zoom magnification change from x 6 to x 33
- Comfortable 8.5° converging optics
- Optional beam splitter for imaging upgrade
- Optional fibre optic external illumination system
- Rheostat base
- Integrated yellow barrier filter for fluorescein examination



Part Number 3009-P-1003 SSL-33 Zoom Slit Lamp (x6 to x33 continuous)

Zeiss type

Zeiss type illumination systems are significantly more compact and tidier in overall looks yet retain many of the excellent features of the more comprehensive Haag type systems, such as the cobalt blue, green (red free), neutral density and heat absorbing filters.



SL-40Z

- Drum change x6, x10, x16, x25 and x40 magnifications
- Comfortable 8.5° converging optics
- Optional beam splitter for imaging upgrade
- Rheostat base
- Integrated yellow barrier filter for fluorescein examination

Part Number 2402-P-2198 SL-40 Slit Lamp (x6, x10, x16, x25 and x40)

Part Numbers 1030-P-7160 6V 20W Slit Lamp Halogen bulb
 1030-P-7152 Slit Lamp Halogen bulb for Digital Slit Lamp



Tables for Slit Lamps

Most Slit Lamps are supplied on their own tabletop requiring only either a table leg or to be fitted to a refraction stand. We offer you a choice of either a virtually silent motorised centre leg or a silky smooth action manual counterbalanced centre leg tables.



Electric Elevation Table



Manual Counterbalanced Table

Part Numbers 3304-P-7045 Electric Elevation Table - centre leg
 3304-P-7053 Manual Counterbalanced Table - centre leg

Javal Keratometer

As the Keratometer becomes destined for less regular use, the price value relationship becomes key to the purchasing decision. We offer an exceptional value, top quality Keratometer.

- 30 to 60 Dioptres measuring range
- Single Joystick control for height and position
- Illuminated measuring scale
- Extremely accurate



Javal Keratometer bulbs



Part Numbers	2402-P-2147	Javal Keratometer
	2402-P-2155	Javal Keratometer illumination bulb (6V, 10W)
	2402-P-2163	Javal Keratometer scale lamp (6V, 3W)

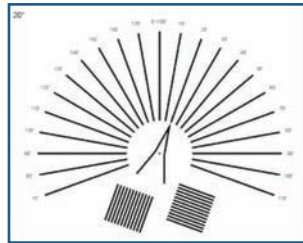
Practice Essentials

Keeler offer a wide range of high quality, competitively priced Practice Essential tools designed for everyday, rigorous use.

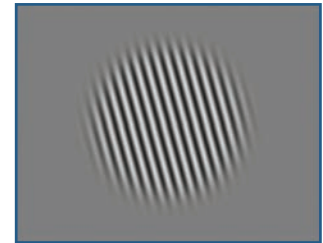


CSO Vision Chart

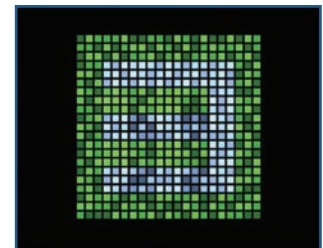
- Test chart has been designed based on the ETRS letters
- Very easy to use
- A wide range of tests including colour vision



Fan and block



Contrast Sensitivity



Colour test

Part Number 2204-P-2488 CSO Vision Chart

Pro-Chart Chart Projector

The flexibility, space saving ability and simplicity of use of the chart projector give it a significant advantage over both conventional Test Types and computer based systems.

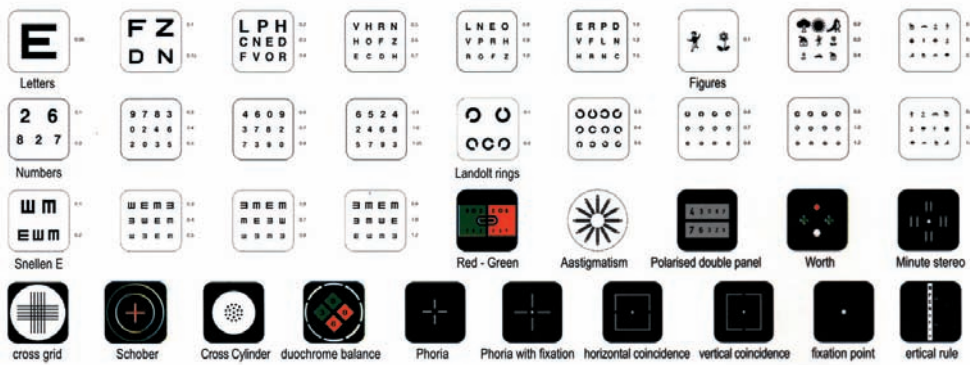
Versatile

The Infra Red remote allows you total freedom to control your projector from anywhere in the room, and with two program sequences at your fingertips you can easily run your personally selected sequences quickly and easily.

Powerful

With 37 contrast adjustable charts as well as red green and polarising phoria tests the Pro-Chart really is an all in one Test Type. Fast efficient and reliable.





For tables see Tables for Slit Lamps section on page 32

Part Numbers	2209-P-2065	Pro-chart Chart Projector (37 charts) with contrast sensitivity
		Accessories
	2209-P-7325	Wall Bracket for Chart Projector
	2204-P-7377	Double projection mirror for rooms of less than 6m

Test Types

Slimline, internally illuminated, remote controlled test types and accessories

Keeler Finesse

The Keeler Finesse is an all purpose, internally illuminated, infrared, remote controlled indirect test type.

The Keeler Finesse Elite comes with additional Fan and Block for measurement of astigmatism.

- Interchangeable Panel
- Motorised Drum
- Mallet Fixation Disparity Test
- Concentric Circles
- Duochrome Test



Part Numbers	2204-P-2306	Keeler Finesse
	2204-P-2322	Keeler Finesse Elite with additional Fan and Block

Finesse Single Sided Test Type

An internally illuminated panel with Spot light available to test at 6 or 3 metres.



Part Numbers	2204-P-2429	Single Sided Test Type 3 Metre Direct
	2204-P-2410	Single Sided Test Type 6 Metre Direct/Indirect

Finesse Four Sided Test Types

Depending on your size of examination area you can choose a direct test type which tests at 6 metres or an indirect test type which tests at 3 metres. Three movement options are available; Manual, Air Switch Control and Infrared Remote Control.

Internally illuminated with four upper Snellen panels and four lower panels.

- Spot light
- Duochrome
- Friend
- Worth 4 Dot



Part Numbers	Direct Test Types
2204-P-2402	Four Sided Test Type Manual
2204-P-2381	Four Sided Test Type Motorised/Air Switch
2204-P-2373	Four Sided Test Type Infra Red Remote Control
Indirect Test Types	
2204-P-2365	Four Sided Test Type Manual
2204-P-2357	Four Sided Test Type Motorised/Air Switch
2204-P-2373	Four Sided Test Type Infra Red Remote Control
Accessories	
2204-P-7393	Floor Stand for Four Sided Test Types
2204-P-7406	Wall Bracket for Four Sided Test Types

New LogMAR Test Type

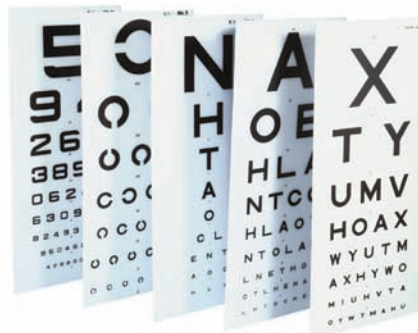
LogMAR is the new method of testing visual acuity. It tests at 4 metres with 14 rows of LogMAR letters.

It can be wall mounted or an optional lower base is available. Additional charts are available.



Part Numbers	2204-P-2437	LogMAR 4 Metre Test Type
	2204-P-2445	Base for LogMAR Test Type
	2204-P-2461	Letter Chart
	2204-P-2453	Number Chart

We offer a wide range of direct and indirect Snellen panels



Trial Frames

New Oculus Universal

Lightweight, comfortable and robust with easy clean, user friendly controls.



Part Numbers	2207-P-1173	New Oculus Universal
	2207-P-1114	Oculus Standard
	2207-P-1149	Oculus Adult Half Eye with adjustable nose rest
	2207-P-1130	Oculus Children's Half Eye with adjustable nose rest
	2207-P-1181	Simplex Trial Frame



Oculus Adult Half eye



Oculus Standard



Simplex Trial Frame



Oculus Children's Half eye

Features	Oculus Universal	Oculus Standard	Oculus Adult 1/2 Eye Adjustable	Oculus Children 1/2 Eye	Simplex Frame
Pair of lenses	5	5	3	3	4
Adjustable bridge	Yes	Yes	Yes	No	Yes
Bridge material	Rubber	Rubber	Plastic	Plastic	Plastic
Lens rotation control	Yes	Yes	No	No	Yes
Adjustable PD	Yes	Yes	Yes	Yes	Yes
Adjustable side length	Yes	Yes	Yes	Yes	Yes
Adjustable side angle	Yes	Yes	No	No	Yes
Vertex measurement	Yes	Yes	No	No	Yes
Colour	Grey	Black	Grey	Grey	Grey
Frame Material	Plastic	Plastic	Plastic	Plastic	Plastic/Metal

New Children's Trial Frame

New UB5 Trial Frame, designed specifically for children

- Lightweight
- PD range 40 to 72mm
- New nose rest, made from soft, skin friendly material
- Requires Children's Trial Lens Set 2201-P-1172



Part Number	2207-P-1202	Children's Trial Frame
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Trial Lens Sets

New Trial Lens Set for Children's Trial Frame

Lenses with a diameter of 28mm to fit into the Trial Frame.

Contents:

- 20 pairs each +/- sph. Lenses 0.25 – 12 dpt
- 10 pairs each +/- cyl. Lenses 0.25 – 3.00 dpt
- 5 prism lenses
- 2 coloured lenses
- 1 occluder
- 1 pinhole
- 1 maddox cylinder red



Part Number 2201-P-1172 Children's Trial Lens Set

Premium Trial Lens Sets

All lenses are marked on both sides so you don't need to think about right and left lenses.

- Cylinder lenses have axis markings on the lenses
- Supplied in solid wooden case with removable tray



Part Numbers	2201-P-1228	232 Reduced aperture plastic lenses in wooden case
	2201-P-1236	232 Reduced aperture metal lenses in wooden case
	2201-P-1244	232 Full aperture lenses in wooden case

Trial Lens Sets in vinyl brief case

The widest range of lenses available that are easy to fit and remove from trial frames with clear markings and a removable tray.



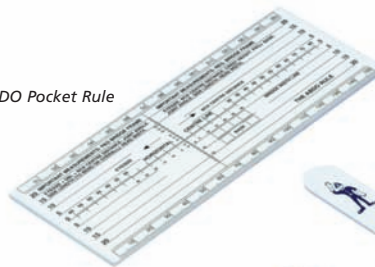
Part Numbers	2201-P-1121	Reduced Aperture Trial Lens Set in vinyl case (232 lenses)
	2201-P-1148	Full Aperture Trial Lens Set in vinyl case (266 lenses)

Occluders and Accessories

ABDO Pocket Rule

Offers an Interpupillary distance and measures distance between lenses.
Designed to measure most specifications relating to spectacles.

ABDO Pocket Rule



Romanes Occluder



Fixation Bar

An ideal orthoptic aid for children.
Policeman and coloured budgie on one side.
Two reduced Test Types plus N5 text on reverse.

Fixation Bar



Clip on Occluder

Green and Red Maddox Rods

Ideal for muscle balance examination.

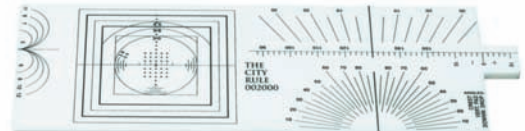


Maddox Rod

Romanes Occluder

City Rule

Designed to take frame and multifocal measurements.
Designed to BS3521 – 1991 (latest version).



City Rule

Part Numbers	2299-P-1217	ABDO Pocket Rule
	2301-P-1014	Fixation Bar
	2299-P-1049	Clip on Occluders
	2299-P-1233	Romanes Occluder
	2203-P-1184	Green Maddox Rod
	2203-P-1176	Red Maddox Rod
	2299-P-1305	City Rule

Cross Cylinders, Twirls and Confirmation Tests

Keeler Binocular Confirmation Tests

Useful sliding lens system that allows the PD to be adjusted to your patients requirements.



Part Numbers	2203-P-1299	Confirmation Test (4 lenses, 2 Pairs Each +/-0.25D)
	2203-P-1096	Confirmation Test (4 lenses, 2 Pairs Each +/-0.50D)
	2203-P-1109	Confirmation Test (4 lenses, 2 Pairs Each +/-1.00D)
	2203-P-1117	Confirmation Test (4 lenses 2 Pairs one +/-0.25D, one +/-0.50D)

Keeler and Jackson Cross Cylinders and Confirmation Tests

Clearly marked high quality lenses.



Part Numbers	2203-L-1318	Keeler Cross Cylinder 0.25D
	2203-L-1326	Keeler Cross Cylinder 0.50D
	2203-P-1029	Pair of Keeler Cross Cylinders in case
	2203-P-1205	Jackson Cross Cylinder +/-0.25D
	2203-P-1213	Jackson Cross Cylinder +/- 0.50D
	2203-P-1221	Jackson Cross Cylinder +/-0.75D
	2203-P-1248	Jackson Cross Cylinder +/- 1.00D

Keeler Monocular Confirmation Tests

Part Numbers	2203-L-1350	Monocular Spherical Twirl +/- 0.25D
	2203-L-1369	Monocular Spherical Twirl +/-0.50D



Children's Tests and Near Vision Reading Tests

LogMAR Crowded Test

More subtle definition of changes between acuity ranges specifically in amblyopic children. Ideal for testing acuity of children from 3

years of age. 3m working distance. 4 letters at each acuity level from 6/3 to 6/38. Laminated and washable.



Part Number 2204-P-1231 LogMAR Crowded Test

Thomas the Tank Engine

Designed specifically for children.

Colour pictures encourage full child participation. Print size N5 to N24.



Part Number 2205-P-1065 Thomas The Tank Engine Reading Test

Sheridan Gardiner Test

Well established test designed for children but suitable for disabled people, those with

learning difficulties or patients who do not share a common language with the examiner.



Part Numbers 2204-P-1004 Sheridan Gardiner Test without Orthoptic booklets
2204-P-1063 Sheridan Gardiner Test with Orthoptic booklets

Colour Vision Tests

3rd Edition City University Colour Vision Test

This test displays normal protan, deutan and tritan colours, differentiation is stronger in the red/green.

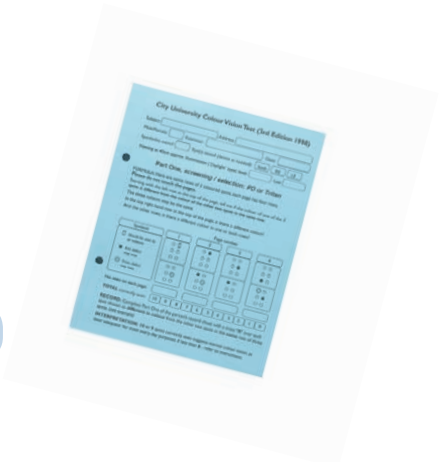
Significant tritan defects may be detected if used in conjunction with the Ishihara. The test includes a screening option.



Part Number 2206-L-1057 City University Colour Vision Test

Recording Charts for City University Test

Part Number 2206-L-7125 Recording Charts for City University Colour Vision Test



38 and 24 Plate Ishihara Colour Vision Test

Ideal for commercial/industrial colour screening.

Tests for protan and deutan defects.

Patients must identify numbers or patterns formed in a matrix of small coloured dots

varying in colour and intensity (pseudo-isochromatic plates).

Two editions available: 38 plate for detailed investigation – 24 plate for quick screening.

Part Numbers 2206-P-1008 38 Plate Ishihara Colour Test
2206-P-1016 24 Plate Ishihara Colour Test



General Tests

Mallett Near Vision Unit

A lightweight and compact Near Vision test unit that incorporates a comprehensive range of Mallett near tests.

The unit supplied is rechargeable and the

tests are controlled by a switch located on the side of the unit.

High contrast and definition on all charts.

A matching polarising visor is included.

Part Numbers 2205-P-1110 Mallett Near Vision Unit 90/180°
2205-P-1137 Mallett Near Vision Unit 45/135°



RAF Binocular Gauge

Useful device for determining the objective and subjective convergence points, measuring accommodation and determining the dominant eye.

Lightweight bar, 500mm in length on which a sliding four sided drum is mounted with different tests on each panel.

Part Number 2301-L-1020 RAF Binocular Gauge



Wirt Stereo Fly Test

Fly dramatically demonstrates presence of stereoscopic vision.

Two supporting tests enable estimation of level of stereoscopic vision.



Part Number 2406-L-1000 Wirt Stereo Fly Test

Maddox Wing Test

Convenient hand held quick and efficient near test for heterophoria which is measured on the red vertical scale.

Esophoria and exophoria are measured by the white horizontal scale. Cyclophoria may be assessed by moving the red arrow pointer parallel to the horizontal scale.



Part Number 2301-P-1022 Maddox Wing Test

Keeler Horizontal Vertical Prism Bar

Comes complete in it's own case. A unique integrated design with no need for two separate bars.

Optical surfaces are recessed for optimum protection. Extensive prism power 1,2,3,4,6,8,10,15,20,25,30 and 36 dioptres.



Part Number 2203-P-1002 Keeler Horizontal/Vertical Prism Bar

Keeler Retinoscopy Rack

An excellent tool for fast objective refraction, particularly with uncooperative patients and children.

Comes complete in its own carrying case. There are 24 lenses, 13mm diameter -6D to +6D in 0.5D steps. Mounted in tough, yet light alloy frame.



Part Number 2202-P-1000 Keeler Retinoscopy Rack

Amsler Manual

Assists in early recognition of changes in the macula and foveal areas.

Only 6 patient responses required for

diagnosis of functional disturbances, from small scotoma to distortions. Full instructions include the interpretation of results.



Part Numbers 2215-P-1034 Amsler Manual
2215-P-7057 Amsler Recording Charts

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