

# Keeler

Ophthalmic Instruments

2008 UK Catalogue



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# 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.



*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.



## Eight decades of development in Ophthalmoscope design



## 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.

# 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.

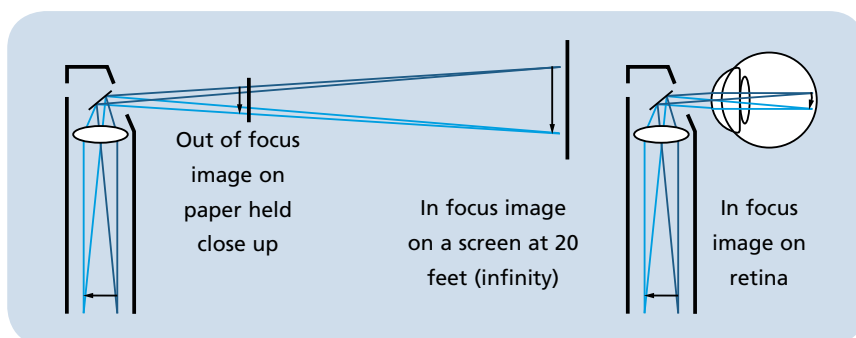


The Specialist - the World's finest direct ophthalmoscope



## 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 dioptre 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.



Specialist/Vista  
Ophthalmoscope  
bulb



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 Halogen
	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.



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

### Provides over 2 hours of continuous use

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

### Versatile

Instruments can still be used whilst the battery is charging.

### 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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# 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.

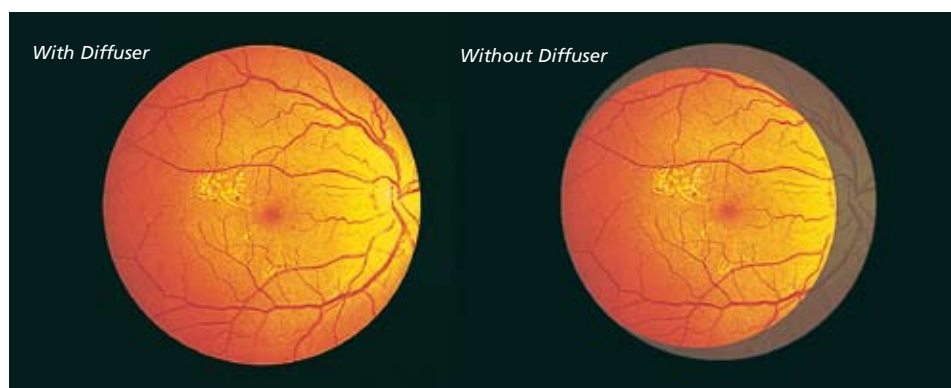
## Adjustable brilliant illumination

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.

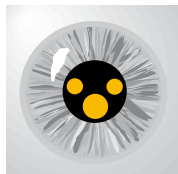
### Large Pupil

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



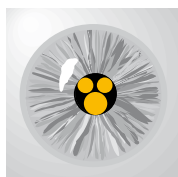
### Intermediate Pupil

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

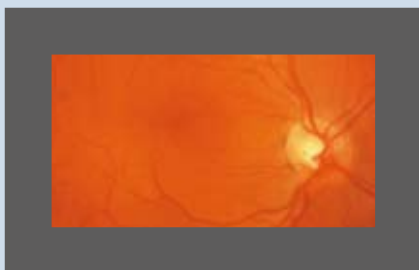


### Small Pupil

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.



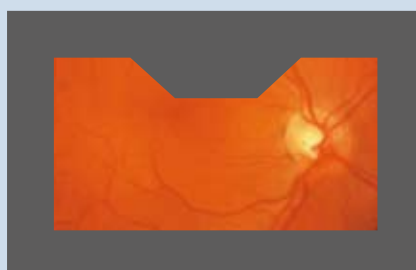
## Exclusive - IOS Optics allows Small Pupil Imaging without any obstructions



### 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

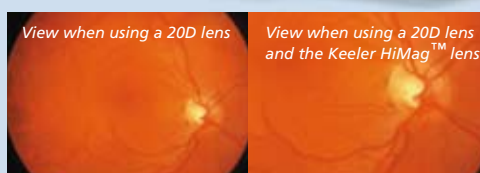
Total freedom - our patented wireless technology leaves you free to move around without any wire or cord constraints.

## 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.



## 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: 52 - 76mm

## 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.



## 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
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## 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
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## 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
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## 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

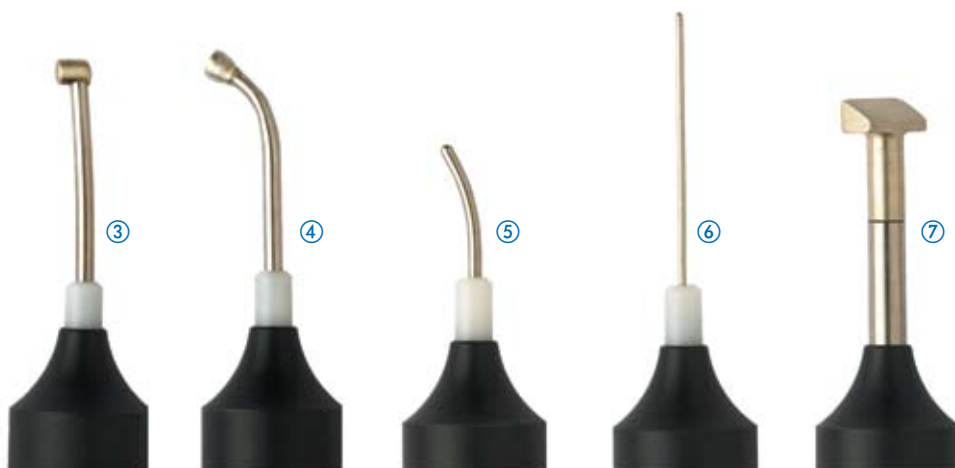
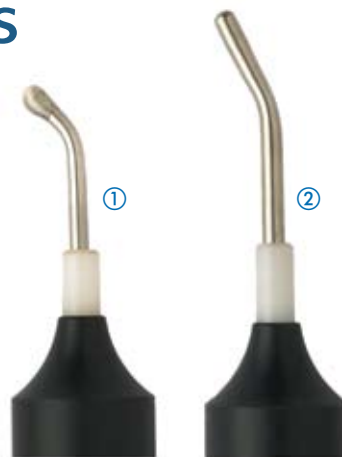
⑤ Curved Cataract Probe  
2509-P-8004

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*

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

## Keeler Cryomatic Accessories

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

# 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.

## 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*



# 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



## 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).



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

# Kowa HA-2 hand-held applanation Tonometer

Robust and reliable with proven technology this Kowa version of the Perkins Tonometer has been to exacting and uncompromising standards.

## Accurate

The unique one spring action ensures accuracy and consistency regardless of your patients posture, calibration can be easily verified using the 2g weight provided.

## Convenient

Built in illumination and a direct reading type dial for convenience – no weight/pressure conversion tables are required.

## Ergonomic

The compact, balanced and lightweight design make single handed operation, as easy as using your Keeler Ophthalmoscope!

<b>Part Numbers</b>	<b>2401-P-2671</b>	Kowa HA-2 hand-held applanation Tonometer ( <i>without prism</i> )
	<b>2401-P-8037</b>	Applanation Tonometer doubling prism





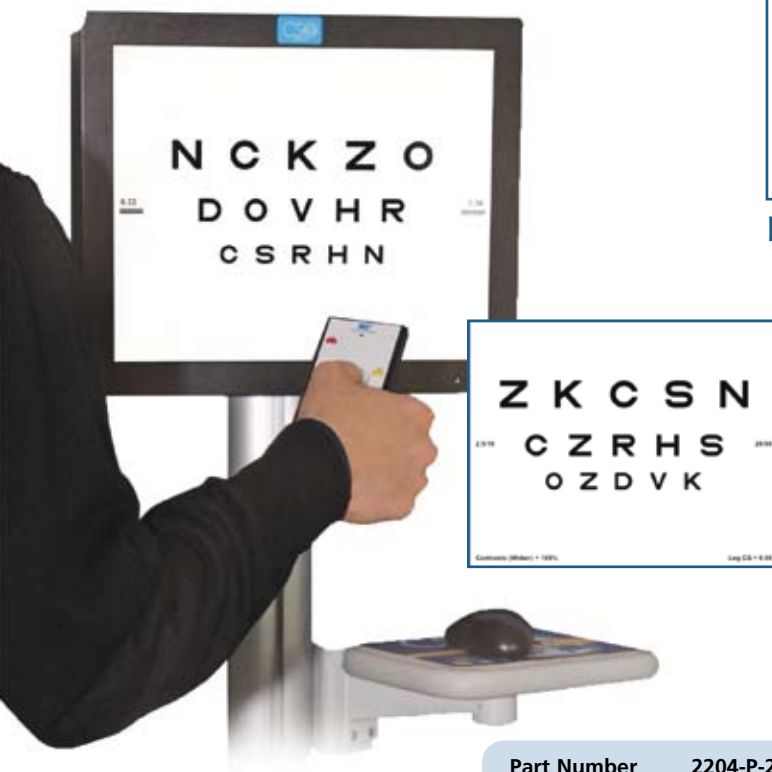
# Practice Essentials

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 ETDRS 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

## 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



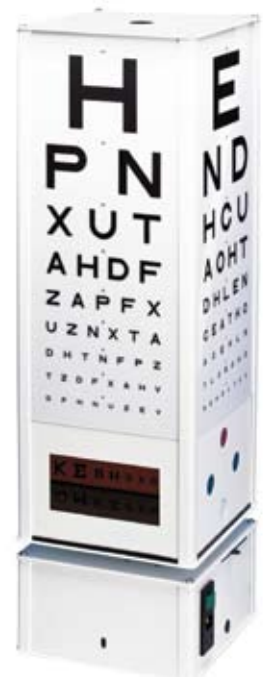
## Finesse Four Sided Test Types

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, Motorised 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-2349	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-2349	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.



Oculus Universal

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

#### 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



Oculus Standard



Simplex Trial Frame



Oculus Adult Half eye



Oculus Children's Half eye



# New Children's Trial Frame

New UB5 Trial Frame, designed specifically for children

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



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

## 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  $\pm$  sph. Lenses 0.25 – 12 dpt
  - 10 pairs each  $\pm$  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



Reduced aperture plastic



Reduced aperture metal



Full aperture metal



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

### Fixation Bar

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

Romanes Occluder

Fixation Bar

Clip on Occluder

### Green and Red Maddox Rods

Ideal for muscle balance examination.

Maddox Rod

City Rule

### Romanes Occluder

### City Rule

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

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.



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

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



## Keeler Monocular Confirmation Tests

<b>Part Numbers</b>	<b>2203-L-1350</b>	Monocular Spherical Twirl +/- 0.25D
	<b>2203-L-1369</b>	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



# Volk - The Leader in Aspheric Optics

## Digital Slit Lamp Lenses

### Digital High Mag Lens™

Highest Resolution, High Magnification Imaging of the Central Retina.

- Patented double aspheric glass optics provide enhanced imaging
- Low dispersion™ glass reduces chromatic aberration for extremely high resolution retinal imaging
- High magnification provides topographical views of the nerve fiber layer
- Outstanding stereopsis allows detection of optic disc swelling, cupping and macular serous fluid
- Unique glass surface curves and coating minimize distortion and reflections



**Part Number**    **2105-L-1816**    Digital High Mag Lens™

### Digital Wide Field Lens®

Highest Resolution Pan Retinal Examination.

- Advanced double aspheric design provides enhanced imaging
- Ultimate 90D lens with similar magnification and widest field of view past the vortex
- Unique glass surface curves and coating minimize distortion and reflections
- High index glass ensures highest resolution stereo image, even through small pupils



**Part Number**    **2105-L-1787**    Digital Wide Field Lens®

### Digital 1.0x Imaging Lens

Ultimate Lens for Digital Slit Lamp Photography.

- Patented double aspheric glass optics provide enhanced imaging
- Unique glass surface curves and coating minimize photographic distortion and reflections
- Highest resolution flat plane imaging of the posterior pole
- High index, high resolution glass provides improved stereopsis and image clarity



**Part Number**    **2105-P-2060**    Digital 1.0x Imaging Slit Lamp Lens

## Digital Slit Lamp Lens Set

### Digital Wide Field® and 1.0x Imaging Lenses



**Part Number**    **2105-L-1808**    Digital High Mag Hi Res Lens

Lens	Field of View	Image Mag.	Laser Spot Size	Primary Application
Digital High Mag Lens	57° / 70°	1.30x	0.77x	Highest Resolution, High Magnification Imaging of the Central Retina
Digital Wide Field Lens®	103° / 124°	.72x	1.39x	Highest Resolution Pan Retinal Examination
Digital 1.0x Imaging Lens	60° / 72°	1.0x	1.0x	High-resolution diagnosis of the posterior pole and reduced glare and reflections



# Super Series Slit Lamp Lenses

## SuperField®

Its small 30.2mm diameter housing proves to be highly useful for dynamic funduscopy, allowing the lens to be more easily

manipulated, which in turn effectively increases its dynamic field of view to 116°.

**Part Number**    **2105-P-1121**    SuperField® Slit Lamp Lens



## Super 66®

The Super 66® provides an expansive 96° dynamic field of view. Ease of use and working distance are comparable to that of

the 78D lens but with higher resolution, image clarity and enhanced depth perception.

**Part Number**    **2105-P-1199**    Super 66® Slit Lamp Lens



## Super VitreoFundus®

Volk's Super VitreoFundus® lens provides ultra wide-field viewing and outstanding small pupil properties for quick comprehensive fundus examinations at the slit lamp. It has been specifically designed to

provide a wide field of view through small pupils without the steep learning curve of typical small pupil lenses. Delivering an incredible 124° dynamic field of view with ample .57x magnification.

**Part Number**    **2105-L-1541**    Super VitreoFundus® Slit Lamp Lens



## SuperPupil® XL

The SuperPupil® XL provides the widest panoramic equatorial fundus view of any non contact lens available with over 100° field visible in a single view! The XL's wide field/high

resolution optics allow detailed inspection of the posterior pole as well as peripheral lesions including retinoschisis and retinal detachments.

**Part Number**    **2105-L-1517**    Super Pupil® XL Slit Lamp Lens



Lens	Field of View	Image Mag.	Laser Spot Size	Primary Application
SuperField®	95° / 116°	.76x	1.3x	General retinal scanning lens
Super 66®	89° / 96°	1.0x	1.0x	High resolution viewing of the posterior pole
Super VitreoFundus®	103° / 124°	.57x	1.75x	Wide field retinal scanning and small pupil examinations (3-4 mm)
SuperPupil® XL glare and reflections	103° / 124°	.45x	2.2x	Examination through small pupils (2-3mm)

# Classic Slit Lamp Lenses

## 60D

The 60D provides the highest magnification of the non contact slit lamp lenses and is ideal for detailed disc and macular viewing.

The 31mm ring diameter facilitates easy handling with the orbital area.

**Part Number**    **2105-P-1084**    60D Classic Lens



## 78D

The patented Double Aspheric 78D is an excellent general diagnostic laser treatment

lens offering an ideal .93x image magnification and wide 97° dynamic field of view.

**Part Number**    **2105-P-1009**    78D Classic Lens



## 90D

The original Volk 90D features a small 26mm diameter ring design which is outstanding for dynamic funduscopy.

The Volk 90 has good small pupil capabilities, making it ideal for a quick look at the posterior pole.

**Part Number**    **2105-L-1103**    90D Classic Lens



Lens	Field of View	Image Mag.	Laser Spot Size	Primary Application
60D Classic	68° / 81°	1.15x	.87x	High magnification views of the posterior pole
78D Classic	81° / 97°	.93x	1.08x	General diagnosis and treatment
90D Classic	74° / 89°	.76x	1.32x	General diagnosis / small pupil examinations

# Digital Indirect Ophthalmoscope Lenses

## ClearField

Highest Resolution Pan Retinal Examination.

- Advanced double aspheric design provides wide field imaging previously unattainable with the indirect method of examination

- Low dispersion™ glass delivers enhanced resolution
- Reduced ring diameter and working distance facilitate lens manipulation

**Part Number**    **2105-L-1240**    ClearField Digital Indirect Ophthalmoscope Lens



## ClearMag

Highest Resolution High Magnification Optic Disc and Posterior Pole Examination.

- Advanced double aspheric design provides high magnification imaging previously unattainable with the indirect method

- Low dispersion™ glass delivers enhanced resolution
- Reduced ring diameter and working distance facilitate lens manipulation

**Part Number**    **2105-L-1859**    ClearMag Digital Indirect Ophthalmoscope Lens



Lens	Field of View	Image Mag.	Laser Spot Size	Primary Application
ClearField	55° / 72°	2.79x	0.36x	Highest Resolution Pan Retinal Examination
ClearMag	38° / 49°	3.89x	0.26x	Highest Resolution High Mag. Optic Disc & Posterior Pole Exam.

# Indirect Ophthalmoscope Lenses

## 15D

The 15D provides high magnification along with optimised working distance from the cornea.

With its 4.11x magnification, it is also well suited for optic disc and macular observation.

**Part Number**    **2105-L-1218**    15D Indirect Ophthalmoscope Lens



## 20D

The 20D lens is perfectly corrected for field curvature, astigmatic aberrations and coma – delivering the best retinal image of any 20 diopetre lens on the market. Its advanced

Double Aspheric design further maintains linear image magnification and perfect image clarity across the entire field of view for unsurpassed fundus examinations.

**Part Number**    **2105-K-1159**    20D Indirect Ophthalmoscope Lens



## Pan Retinal® 2.2

The Pan Retinal® 2.2 uniquely combines magnification nearly that of the 20D lens with a field of view approaching that of the

30D lens. It is excellent for virtually every examination procedure, including small pupil examinations.

**Part Number**    **2105-P-1017**    Pan Retinal® 2.2 Indirect Ophthalmoscope Lens



## 28D

This lens provides exceptional resolution and fundus scanning capability.

Excellent for small pupil diagnosis and treatment.

**Part Number**    **2105-L-1568**    28D Indirect Ophthalmoscope Lens



## 30D

The 30D is designed to provide the practitioner with a wide field of view,

shorter working distance and excellent for use with small pupils.

**Part Number**    **2105-L-1250**    30D Indirect Ophthalmoscope Lens



## 40D

The 40D is ideal for paediatric ophthalmoscopy and other examinations requiring expansive fundus visibility.

**Part Number**    **2105-L-1234**    40D Indirect Ophthalmoscope Lens



Lens	Field of View	Image Mag.	Laser Spot Mag. Factor	Working Distance	Primary Application
Macula Plus® 5.5	36° / 43°	5.50x	.18x	80mm	Ultra-high resolution viewing of the posterior pole
14D Large	36° / 47°	4.30x	.23x	75mm	High magnification viewing of the posterior pole
15D Large	36° / 47°	4.11x	.24x	72mm	High magnification viewing of the posterior pole
20D Large	46° / 60°	3.13x	.32x	50mm	General diagnosis and treatment
Pan Retinal® 2.2	56° / 73°	2.68x	.37x	40mm	General diagnosis and treatment
25D Large	52° / 68°	2.54x	.39x	38mm	Median field diagnosis and treatment
28D Large	53° / 69°	2.27x	.44x	33mm	Small pupil diagnosis and treatment
30D Large	58° / 75°	2.15x	.47x	30mm	Small pupil diagnosis and treatment
40D Large	69° / 90°	1.67x	.6x	20mm	Paediatric ophthalmoscopy / veterinary applications

# Indirect Diagnostic Laser Contact Lenses

## SuperQuad® 160

The ultimate PRP lens! Volk's SuperQuad® 160 offers the widest field of view of any lens ever produced. Its ideal .5x magnification provides simultaneous visualisation of the posterior pole to the peripheral retina, providing a greater margin of safety during pan retinal photocoagulation.

The SuperQuad® 160 is the ideal lens for visualisation and treatment of proliferative diabetic retinopathy, ischemic retinal vein occlusion and peripheral retinal holes and tears. Laser beam transmission and fundus image quality are sharp and undistorted to the full extent of the viewing field.



**Part Number**      **2105-L-1525**      Super Quad® 160 Indirect Contact Lens

## QuadrAspheric®

The original 130° QuadrAspheric® lens has grown in popularity since its introduction in 1989 as the preferred wide field fundus laser lens. Its sleek 28.6mm diameter housing provides a definite advantage over competitive wide field lenses for peripheral retinal viewing,

reflection displacement and ease of use. This lens is excellent for small pupil fundus examination and as a general diagnostic/laser lens delivering a quality combination of wide field viewing, image magnification and manoeuvrability in the orbit.



**Part Numbers**      **2105-P-1076**      QuadrAspheric® Indirect Contact Lens  
                                  **2105-P-1164**      QuadrAspheric® Lens (NF)

## Area Centralis®

The Volk Area Centralis® is excellent for critically evaluating and treating subretinal neovascularization and changes from macular degeneration, retinal vascular occlusions, diabetic macular oedema,

proliferative diabetic retinopathy and other retinal conditions. It is ideal for focal laser treatment of these conditions providing excellent magnification combined with a good field of view.



**Part Numbers**      **2105-P-1113**      Area Centralis® Indirect Contact Lens  
                                  **2105-P-1148**      Area Centralis® Lens (NF)

## TransEquator®

The Volk TransEquator® is designed for focal laser therapy and mid-to-far peripheral fundus diagnosis. Its unique optical design presents a realistic contour of the retinal concavity, offering an impressive wide-field

view of the entire posterior pole extending to the equator. The superior optics of this lens allow dynamic movement on the globe, therefore increasing its functional field of view.



**Part Number**      **2105-P-1156**      TransEquator® Indirect Contact Lens

Lens	Field of View	Image Mag.	Laser Spot	Primary Application
SuperQuad® 160	160° / 165°	.5x	2.0x	Extreme, wide angle pan-retinal photocoagulation
Equator Plus®	114° / 137°	.44x	2.27x	Small pupil diagnosis and treatment
Quad Paediatric	100° / 120°	.55x	1.82x	ROP and other paediatric conditions
QuadrAspheric®	120° / 144°	.51x	1.97x	Wide field diagnosis and treatment of the retina
PDT Laser Lens	115° / 137°	.67x	1.5x	Photodynamic Therapy
TransEquator®	110° / 132°	.7x	1.44x	Mid peripheral diagnosis and grid laser therapy
Area Centralis	70° / 84°	1.06x	.94x	High resolution viewing and treatment of the posterior pole
SuperMacula® 2.2	60° / 78°	1.49x	.67x	Ultra-high resolution diagnosis and treatment near the fovea

All Volk lenses are listed but not shown - for details on other Volk lenses, please contact Keeler on 0800 521251

# Direct Contact Lenses

## Centralis Direct®

Volk's Centralis Direct® laser lens provides a direct upright image of the posterior segment of the eye. Utilizing a unique solid methyl methacrylate optic with a bonded protective glass LaserWindow® exterior, this special optical design eliminates filament reflection common to other lower profile fundus lenses.

The Centralis Direct® also features an aspheric corneal contact design for improved fit and manoeuvrability, visible wavelength and laser beam transmission exceeding 99% and the convenience of a knurled grip area extending beyond the orbital margin, for easier handling.



**Part Number** 2105-L-1728 Centralis Direct® Lens

## Fundus Laser Lens

An advanced fundus laser lens designed with Volk's patented Double Aspheric optics for superior high magnification viewing and treatment of the optic nerve head and macula. State-of-the-art computer designed aspheric optics provide improved performance over existing fundus lens designs.

The Volk Fundus Laser Lens comes standard with LaserWindow® for optimal laser beam transmission and imaging element protection. This unique feature also creates a "closed" system - protecting the imaging element from dirt, oils and debris - ensuring precise laser placement.



**Part Number** 2105-L-1736 Fundus Laser Lens

## Capsulotomy Lens

Laser capsulotomy procedures are now greatly improved with Volk's patented Double Aspheric Capsulotomy Laser Lens. This new lens promotes precise and focused

laser beam placement at the capsular bag. This new aspheric design comes standard with a LaserWindow® for optimal laser beam transmission.



**Part Number** 2105-L-1592 Capsulotomy Lens

## Iridectomy Lens

Volk's patented Double Aspheric Iridectomy lens provides superior treatment capability of all basal and peripheral iridectomy procedures.

This new aspheric design comes standard with LaserWindow® for optimal laser beam transmission and imaging element protection.



**Part Number** 2105-L-1605 Iridectomy Lens

## Blumenthal Suturelysis Lens

The New Volk Blumenthal Suturelysis lens assists in suture removal after glaucoma surgery enabling you to cut sutures that were inaccessible with prior suturelysis lens designs. The lens magnifies the suture appearance 2 to 3 times – allowing enhanced visibility for difficult

situations as well as smooth suturelysis in routine cases. The pointed tip provides a strong compressive force that adds to the stabilisation of the treated area. This feature provides particular benefit in patients with thick Tenon's layer of a subconjunctival haemorrhage.



**Part Number** 2105-L-1744 Blumenthal Suturelysis Lens

Lens	Field of View	Image Mag.	Laser Spot Mag.	Lens	Field of View	Image Mag.	Laser Spot Mag.
Centralis Direct®	22° / 26°	.9x	1.11x	MagPlus Iridectomy Lens	N/A	1.6x	.63x
Fundus Laser Lens	35° / 40°	1.25x	.8x	Fundus 20mm Laser Lens	25° / 30°	1.44x	.7x
Iridectomy Lens	N/A	1.7x	.58x	Blumenthal Suturelysis Lens	N/A	2x - 3x	.50x - .33x
Capsulotomy Lens	N/A	1.57x	.63x				



# Gonio Lenses

## 3 Mirror

The 3 Mirror lens incorporates 3 mirrors angled at 60°, 66° and 76°. It is ideal for anterior chamber as well as central and peripheral fundus viewing and treatment. The retinal viewing mirrors are accurately angled and spaced to eliminate "gaps" in the visualised fundus. The central portion of the lens also provides direct observation

of the central portion of the posterior pole. Available in Volk's exclusive 18mm ANF (Advanced No Fluid) contact design, or the 15.5mm "No Flange" version for use on infants and patients with narrow palpebral fissures. Please specify coating for Diagnostic/Laser lenses or the uncoated diagnostic version.



**Part Number** 2105-L-1656 Volk G-3 Gonio Fundus

## G-4 goniolaser and G-4 gonio nf

The G-4 goniolaser lens features 4 precisely angled 64° mirrors to deliver a complete view of the anterior chamber angle with slight rotation. The standard fluid design (flanged glass contact element) provides a stable platform during laser treatment of the anterior segment. The NF design features a small 8.4mm radius contact surface

that's ideal for both static and dynamic gonioscopy while eliminating the need for viscous interface solutions such as methylcellulose. Four NF models are available, including: small hand held (25.5mm diameter), large hand held (29mm diameter), extended handle (31/2" straight handle) or angled handle (31/2" 45° angled handle).



**Part Number** 2105-L-1664 G-4 Gonio Fundus

**New 2-in-1 handle which can be removed or re-attached to create a straight or angled handle design**



**Part Number** 2105-L-1795 G-4 Gonio Fundus 2-in-1 Handle

Lens	Mirror Angles	Image Mag.	Laser Spot	Contact Diameter
3 Mirror (no flange)	60° / 66° / 76°	1.06x	.94x	15mm
3 Mirror (ANF+)	60° / 66° / 76°	1.06x	.94x	18mm
G-1 trabeculum	62°	1.5x	.67x	15mm
G-1 trabeculum nf	62°	1.5x	.67x	8.4mm
G-2 trabeculum	60° / 64°	1.5x	.67x	15mm
G-2 trabeculum nf	60° / 64°	1.5x	.67x	8.4mm
G-3 goniofundus	60° / 66° / 76°	1.06x	.94x	15mm
G-3 goniofundus nf	60° / 66° / 76°	1.03x	.97x	11.4mm
G-3 mini goniofundus nf	60° / 66° / 76°	1.0x	1.0x	9.6mm
G-4 goniolaser	4 x 64°	1.0x	1.0x	15mm
G-4 gonio nf	4 x 64°	1.0x	1.0x	8.4mm

**All Volk lenses are listed but not shown - for details on other Volk lenses , please contact Keeler on 0800 521251**



# Fundus Cameras

Established in 1894, Kowa have a worldwide reputation for optics; quality optics that set them apart from their competitors. Kowa skills reach far beyond optics to electronics, software and many other technologies. It is this blend of optics, electronics and software that meld to create truly excellent Fundus Camera systems.

## Kowa Non Myd 7, 10 megapixel system

Great images and unbeatable software make this your perfect non mydriatic imaging partner. The intuitive controls and unique styling together with software that exceeds the needs of the imaging expert without perplexing the novice, will make this a practical and powerful addition to your practice; it's so easy.



### Ease of use

'One touch' controls for magnification and fixation target change, motorised chinrest, and motorised height on the joystick all make it a delight to use.

### Great images

The 10 megapixel high resolution Nikon digital back will produce great images every time, the perfect partner to the Kowa optical system.

### Detail where you want it

With a one touch button to switch from 45° to the higher magnification 20° field and a 'toggle' button for fixation selection you can really get to capture that all important retinal detail.

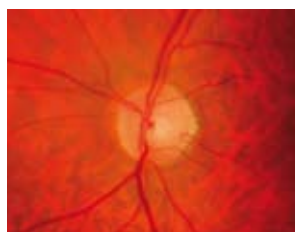
### Unbeatable software

Sophisticated but without complexity, the Kowa VK-2 software package is designed specifically to meet the needs of the 'retinal imager'. It works the way you work, with minimal keystrokes and mouse clicks – more time for you and the patient.



### Software features

VK-2 is a comprehensive patient database with powerful search facilities, clear icons to make 'processing tool' selection fast and easy, and minimal keystrokes and clicks when adding patients, imaging and reviewing or comparing. All you could ever want in an imaging package.



Part Numbers	3105-L-2434	Kowa Non Myd 7 Camera complete with VK-2 software
Accessories	3105-L-2362	Kowa Non Myd external fixation target

*Tables (see refraction stands and tables section)*

# Genesis D

New from Kowa is the first truly hand-held mydriatic digital fundus camera using the same high performance integrated digital camera used in the Non Myd.

Genesis portability opens up a whole new world of high resolution retinal imaging – paediatric; in theatre; on the ward; veterinary, the world is your clinic!

## Instant results

The handy built in 2.5" TFT screen allows you to instantly review your images before you 'return to base' and download to your PC.

## Easy to align and use

Alignment and orientation are fast and easy with the new co-axial parallel optical system.

## Optimised system

The integrated camera and Kowa's optical system are tuned and optimised to produce crisp, colour correct images, first time every time.



Part Numbers	3105-L-2397	Kowa Genesis D complete, without Case
	Accessories	
	3431-L-8553	Kowa Genesis D carrying case
	3105-L-8561	Kowa Genesis D footswitch
	3105-L-8588	Kowa Genesis D 28D lens holder

# Kowa FM-600 Laser Flare Meter

The Kowa Laser Flare Meter is a non contact, non invasive and totally patient friendly device designed specifically for the quantitative measurement of anterior chamber flare, caused by the presence of unwelcome proteins.

The Flare Meter has numerous uses that include the postoperative care of patients who have had cataract surgery or the management of uveitis patients.



Part Number	tba	Kowa FM-600 Laser Flare Meter
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# 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.

For Volk Slit Lamp Lenses please see page 36-38

## SL-40 Di Digital Slit Lamp

Building on the outstanding optical system of the Keeler SL-40H, the illuminations 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, when used with the Volk digital range of lenses a versatile and powerful retinal imaging system.



Part Number	3009-P-1013	Keeler SL-40 Di Digital fire wire Slit Lamp complete on table top with software
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# 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
- Illumination control conveniently located next to the joystick



**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
- Illumination control conveniently located next to the joystick
- 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
- Illumination control conveniently located next to the joystick
- 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 Tower Illumination 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
- Illumination control conveniently located next to the joystick
- Integrated yellow barrier filter for fluorescein examination



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

For the SL-40, 33 and Zoom slit lamps you can connect either a 'C' mount camera (25mm thread) or a Nikon Coolpix mount (28mm thread) to a beamsplitter giving you an affordable imaging upgrade. To complement this, for the tower illumination systems we recommend the external illumination accessory kit.



Beam splitter and Nikon Coolpix adapter

Part Numbers	3009-P-7008	Double port beam splitter for SL-33 and SL-40
	3009-P-7020	External Fibre Optic Illumination System for SL-33 and SL-40
	3009-P-7009	C mount for CCTV camera for beamsplitter
	3009-P-7028	Coolpix mount for 990 950 995 and 4500

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

Slit Lamp  
Halogen  
bulb





# The Kowa SL-15 hand-held Slit Lamp

Versatility and portability are key benefits of the Kowa SL-15. Lithium rechargeable technology giving rapid charging and long 'on' time combined with Kowa's renowned optical expertise result in this superb instrument. New to the SL-15 is the unique and valuable ability to upgrade to digital imaging.

## Rechargeable and cordless

Total freedom of use whether in the theatre, on a domiciliary visit, if you have wheelchair bound patients who cannot get to the chinrest of your conventional Slit Lamp or for examining a horse in the stable. Total freedom.

## Compact and lightweight

When portability is key, weight plays an important part – especially for any lengthy examination or when you are extensively imaging an eye. The SL-15 is under 800g and extremely comfortable and natural to hold and use.

## Crisp white Light

An extra bright halogen light source ensures that no pathology goes unnoticed and is perfect for when imaging is being performed using the Nikon Coolpix system.

## Digital ready

Simply add the Kowa video mount and Coolpix adapter, then fit a Nikon Coolpix and start imaging. Portable Slit Lamp imaging at your fingertips.



Optical head carrying case

Part Numbers	3002-P-2038	Kowa SL-15 Rechargeable hand-held portable Slit Lamp
	Accessories	
	3431-P-7021	Kowa SL-15 Optical head carrying case
	3431-P-7048	Kowa SL-15 Carrying case for complete unit
	1030-P-7082	Kowa SL-15 bulb

Kowa  
SL-15  
bulb



# Phoropter

## Reichert Rx Master

Still unbeatable as a manual Phoropter, the Reichert (AO) Rx Master is engineered to perfection, with a smooth and controllable action coupled with superb optics. A joy to use. Supplied as standard in 'honey white' and fitted with minus Cyls.



Part Number	2210-P-1035	Reichert Rx Master (white) with – cyls
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# Keratometers

As the Keratometer becomes destined for less regular use, the price value relationship becomes key to the purchasing decision. We offer two exceptional value, top quality Keratometers; the traditional Javal type and the one position B & L type.



## Javal Keratometer

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

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)

### Javal Keratometer bulbs



## B & L type Keratometer

- Single Position Keratometer
- Clear external reading scales
- Measures to within 0.12 Dioptres
- Measurement range 36 to 52 Dioptres
- Scale in both mm's and Dioptres
- Aids visualisation of keratoconus



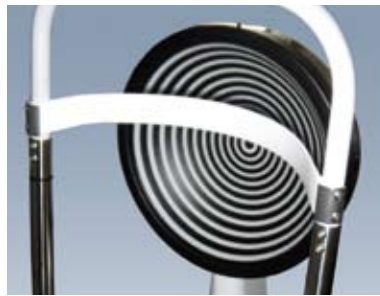
Part Number	2402-P-2200	Bobes Keratometer, type II
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Tables (see refraction stands and tables section)

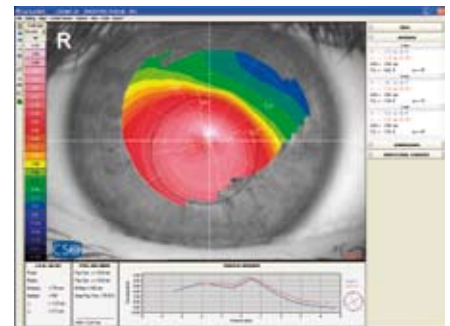
# Topographer

**The preferred standard for care of the anterior eye**

Your topographer will rapidly become your main anterior clinical management tool enhancing the level of care you can offer your patients.



- Aids early detection of corneal disease
- Monitor the cornea for small but significant changes
- Aid the fitting of RGP lenses more efficiently
- Maintain patient records for clear evidence of the examination



**Part Number** 2402-P-2065 MODI Topographer

# Lensmeter

## Tomey TL-3000B Colour Touch Screen Lensmeter

The Tomey TL-3000B is straightforward to operate with a 5.7 inch colour touch screen clear icons will guide you through the menu and guarantee the fast and intuitive operation.

- Colour Touch Screen
- Modern Progressive Mode (FAR, MID, NEAR)
- QC Check Mode
- PD Measurement with a Turn Down (180°) Nose Block
- Refractive Index Calculation
- Large Data Storage (up to 99 Measurements)
- Very Precise Marking Unit



**Part Number** 2403-P-2181 Tomey TL-3000B Lensmeter

# Autorefractors & AutorefKeratometers

Technology with a purpose. Whether you want to pre-test your patients in the practice, or regularly need to refract uncooperative children, or simply need a portable Autorefractor/Keratometer for theatre, domiciliary or veterinary use we have the solution.

## bon Retinomax 3 and Retinomax K-plus 3

Fast, accurate and versatile wireless hand-held refractive measurements. Perfect for domiciliary visits, children or the disabled where chinrest devices are impractical and speed is the issue.

- Lighter and more compact with a thinner grip
- Easy to use
- Auto quick measurement
- Quick start up and fast print out
- Auto override for difficult eyes
- Lithium ion battery means longer continuous use
- Extended diopter range
- Two memory functions

Plus much more

### Mobile

Share the Retinomax between rooms or practices. With no wires to restrict your movement it can be used virtually anywhere.

### Functional

The Retinomax has full measurement range and advanced measurement modes. The instrument begins readings the instant that alignment and focus is achieved and measurements are terminated automatically when complete. Faster measurement times are complemented by increased accuracy. A retroillumination function highlights media opacities.

### Perfect for children

With no chinrest and the useful melody function to retain attention, this is the perfect device for refracting children and babies.



### Retinomax K-plus 3

The major difference between the Retinomax 3 and the Retinomax K-plus 3 is the adoption of kerato functions including peripheral kerato readings in the K-plus 3.



Optional carrying case

Part Numbers	2208-P-2379	Retinomax 3 and accessories
	2208-P-2387	Retinomax K-plus 3 and accessories
	2208-P-7032	Optional carrying case

# Kowa KA-1000 and KW-2000

The latest generation of the Kowa Autorefractor/keratometer features a colour display for faster visualisation of the presented results.

## Flexible

Now with the ability to refract through an IOL, and through a 2.3mm or larger pupil the Kowa Autorefractors are a significant step forward in technology.

## Auto start

Once pre-aligned using the on screen focus guide the system will automatically commence measurement and can be set to print the results automatically after measurement is completed.



<b>Part Numbers</b>	<b>2208-P-2047</b>	Kowa KA-1000 Auto Refractometer
	<b>2208-P-2039</b>	Kowa KW-2000 Auto RefKeratometer

Tables (see refraction stands and tables section)

# Chart Projectors

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.

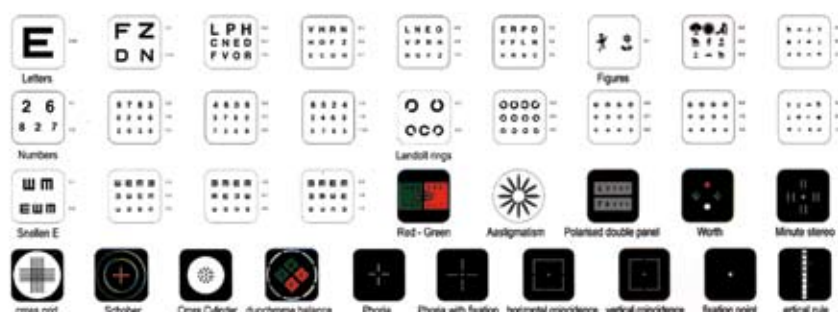
## Pro-Chart

### 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.



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

Tables (see refraction stands and tables section)

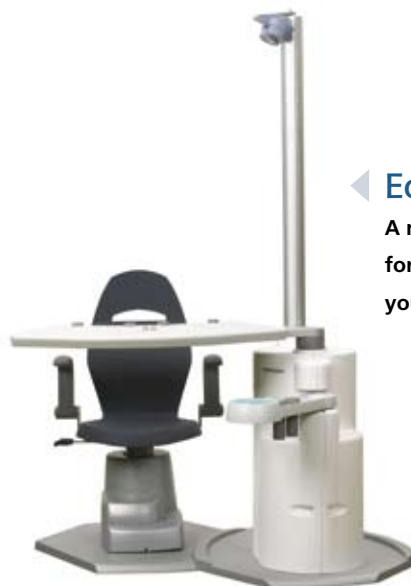
# Refraction Stands

You can only make one first impression with your patients. Selecting the right refraction unit for you, your patients and your room can make all the difference. We have carefully selected three different systems that will give you the choice and flexibility you need.



## ◀ Compact

Our most popular and practical system, small but perfectly formed



## ◀ Eco

A no frills system, affordable, ideal for your 'reserve' room or for when you need to keep costs down.



## ◀ One

Flexible and practical when only one instrument is required, ideal for wheelchair use or when you need a choice of chair. Perfect for the hospital or where a dedicated workstation is needed.

	Compact	Eco	One
Sliding double table	✓		
Fixed double table		✓	
Motorised single instrument table			✓
Motorised table elevation			✓
Comfy 2 chair, motorised elevation, manual recline	✓		Option
Soul basic chair, motorised elevation, fixed backrest		✓	Option
Anterior / posterior chair movement	Option		
Wheelchair friendly			✓
Keeler lithium recharging wells (2)	✓		
Simple panel , single or 3 drawer panels	✓		
Auxiliary lighting control (room lights)	✓	✓	✓
Clear 'membrane' control icons	✓	✓	✓



# Compact, for the smaller room

The stylish and practical design is both pleasing to the eye and convenient to use, minimising the movement of you and your patients to increase efficiency and use of space.

You can choose from three control panel arms – a simple control arm: a single drawer arm and a three drawer arm. The Compact stand is fitted with recharging wells and ready to accept your Keeler Lithium rechargeable instruments.



Recharging wells for your Keeler Lithium rechargeable instruments



Compact Refraction Stand with control panel and Comfy 2 Chair

## Compact panel options



Simple control panel – one touch membrane controls.



Single drawer console – one touch membrane controls and a single smooth action drawer for your smaller accessories.



Three drawer console - one touch membrane controls and three drawers for instrument storage.

Part Numbers	3301-P-2476	Compact Refraction Stand with Comfy 2 Chair and control panel
	3301-P-2484	Compact Refraction Stand with Comfy 2 Chair and single drawer console
	3301-P-2492	Compact Refraction Stand with Comfy 2 Chair and three drawer console



# Eco, the no frills system

Featuring the same build quality and space saving footprint as the Compact, the functional and affordable Eco unit is an ideal no frills refraction Unit.

The control panel has membrane switches for table release, room and instrument lighting plus handy storage for your hand held instruments.



**Part Number** 3301-P-2441 Eco Refraction Stand with Soul basic chair



# One, ideal for a wheelchair



Designed specifically for a single instrument, typically a Slit lamp, that requires motorised lateral movement and motorised height adjustment.

The clear access for the patient makes it ideal for hospital use or where disabled access is required.

The One unit can be used with a variety of patient chairs.



**Part Number** 3301-P-2425 One unit, motorised height and lateral movement

# Refraction Stand Accessories

## Balanced Phoropter arm

Colour matched in powder blue and adjustable for the weight of your phoropter.



*Balanced Phoropter arm*

## Three drawer trolley work station

Colour matched to the Compact and Pro-Flex stands this three drawer unit gives you the freedom to move vital instruments and accessories to where you need them.



*Three drawer trolley work station*

## PC work station

Use space vertically with this hand PC trolley module – the basic unit has three levels for printer, monitor and processor unit plus a handy drawer for accessories. You can add a slide-out keyboard and fixed mouse 'plate' either at purchase or at a later date.



*PC work station with keyboard and mouse accessories*

## Trial lens tray

Trial lens tray only for drawers, w44.5mm, d32.4mm, h4mm.



*Trial lens tray*

<b>Part Numbers</b>	<b>3301-P-7226</b>	Balanced Phoropter arm for Compact and Pro-Flex
	<b>3301-P-7373</b>	'Box' trolley system 3 drawer unit
	<b>3301-P-7381</b>	'Box' trolley system PC module
	<b>3301-P-7402</b>	'Box' trolley system keyboard and mouse plate for PC module
	<b>3301-P-7330</b>	Trial lens tray only for drawers, w44.5mm, d32.5mm, h4mm

# Chairs

## Comfy 2 Chair

A robust, comfortable and stylish chair that will perfectly match the needs of a busy and style conscious practice.

Patient and practitioner can be in perfect harmony by using the reclining backrest and fully adjustable headrest. The chair has electric elevation and manual rotation for easy patient access.



<b>Part Numbers</b>	<b>3302-P-7017</b>	Comfy 2 Chair for refraction units
	<b>3302-P-7019</b>	Comfy 2 Chair with base plate for 'One' unit
	<b>3302-P-7018</b>	Comfy 2 Chair with base plate and footswitch for stand alone use

## Soul Plus Chair

The Soul Plus chair is ideal for those wanting only a basic no frills chair that is electrically elevation and manual rotation. The backrest is fixed.



<b>Part Numbers</b>	<b>3302-P-7022</b>	Eco (Soul Plus) chair for 'One' unit
	<b>3302-P-7023</b>	Eco (Soul Plus) chair for refraction units

# Select Chair

With all the features of the Comfy chair, the Select has the added benefit of an adjustable headrest for extra patient comfort and head stability.



**Part Number**      **3302-P-7002**      Select Chair with adjustable headrest and manual reclining backrest in blue vinyl

# Practice Room Furniture

## Gas Lift Stool

A comfortable and lightweight gas lift stool with a backrest – ideal for most purposes in the busy practice.



**Part Number**      **3303-P-7002**      Gas Lift Stool with backrest and 5 star base, blue vinyl

# 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

# Tables for Cameras, Non Myd, Autorefractors and Keratometers

For 'stand alone' instruments such as Fundus Cameras or Autorefractors, a table with a top is required.

## Table legs

Part Numbers	3304-P-7045	Electric Elevation Table - centre leg (select top)
	3304-P-7053	Manual Counterbalanced Table - centre leg (select top)



## Table tops

Part Numbers	3009-P-7016	Single Top 45 x 58 cm
	3009-P-7024	Double Boomerang Table Top



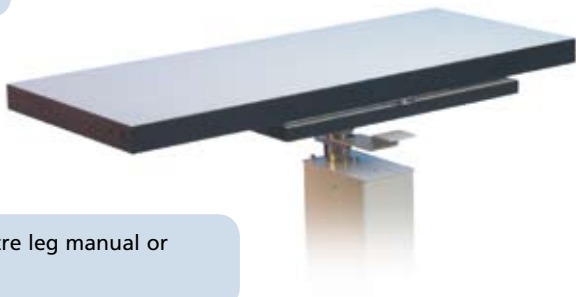
## Tables with tops

Part Numbers	3304-P-7061	Electric Elevation Table with 43 x 80 top and side leg, for wheelchair access
	3304-L-1303	Centre Leg Table with small angled top 100 x 56 Non Myd + Laptop



## Sliding top

Part Number	3009-P-7017	Double Sliding Table Top for Centre leg manual or electric table legs
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# Low Vision Aids

Keeler are delighted to introduce a new range of Low Vision Aids that are uniquely interchangeable and can be quickly and easily upgraded year after year as your eyes change.

Whether you want a magnifier to help you to read and write, watch television or go to the theatre, Keeler can offer you the full range that you can fit onto your existing frame or on a Keeler frame.



## Near Vision Range of Magnifiers

### Read-Write Mag (LVA21)

**Magnifications: 2x, 3x, 4x, 5x**

- Ideal for reading and writing
- Can be used for either one eye or both eyes
- Longer working distance



### New Wide-Vu Mag (LVA22)

**Magnifications: 2x, 3x, 4x, 5x, 6x, 8x**

- Ideal for reading
- Extra wide field of view which is ideal for checking statements or bills
- The 2x and 3x can be mounted for one eye or both eyes

### New Hi-Mag Illuminated and Non illuminated (LVA9)

**Magnifications: 10x, 12x, 15x, 20x**

- Perfect for credit cards statements or utility bills
- Non illuminated is available with clear housing to take advantage of natural light
- Illuminated housing is powered by two batteries



### New Stedi-Fit Mag (LVA10c)

**Magnifications: 6x, 8x**

- Ideal for patients with tremor or focusing problems
- New lens curvature gives improved clarity and image flatness

### Bifocal Mag (LVA12)

**Magnifications: 2x, 3x, 4x, 5x, 6x, 7x, 8x, 9x, 10x**

- Discreet and lightweight
- Full segment bifocal near vision magnification

## Intermediate and Distance Telescopes



### New TV Mag (LVA50)

**Magnification: 1.9x**

- Lightweight and ideal for watching television
- Large 23° field of view at infinity
- Rapid focusing from 42cm to infinity



### Sports Mag (LVA40)

**Magnification: 2.5x**

- Ideal for open areas such as sporting events or theatre and cinema
- Galilean optics with working distance of 70cm to infinity
- Choice of one eye or both eyes



### Multi-Cap (LVA 51)

- Interchangeable caps for near and distance vision in one telescope
- Near cap: choice of magnifications 2x, 3x or 4x
- Distance telescope: magnification 1.75x
- Extra cap for 0.5m and 1m working distance



### Multi-Range Mag (LVA53)

**Magnification: 2.8x 4.2x - Field of Views 12.5°**

- Ideal for use while outdoors or shopping
- Available on a frame or finger ring
- Working distance of 20cm to infinity



### Hand held Multi-Range Mag (LVA53)

**Magnification: 8.25x**

**Field of View 7°**

- Hand held telescope that fits into pockets for travelling and outdoor use
- Working distance of 30 cm to infinity

# Low Vision Assessment Sets

A new range of Assessments with something to suit every practitioner and every patient. Each set can add a service to your practice, whether prescribing simple Low Vision Aids or offering full Low Vision Assessments.

## Advanced Assessment Set

This set offers a range of Keeler Magnifiers and Telescopes enabling you to provide your patients with a full Low Vision Service including:-

- 1.9x Distance Magnifiers
- 10 Near Magnifiers from 2x to 12x
- 3 pairs of binocular telescopes 2x, 3x and 4x magnification
- Near and distance testing charts
- Keeler LVA standard frame and PD bars
- Trial Clip and Clip on occluder



## Basic Assessment Set

Designed as an introduction to Low Vision and the Keeler Telescope System.

- 1.9x distance magnifier
- 7 near telescopes from 2x to 12x
- Near and distance testing charts
- Small, medium and large Keeler frames
- Trial clip and clip on occluder



Part Numbers	2280-P-1161	Advanced assessment set
	2280-P-1153	Basic assessment set

## Redi-fit Assessment Set

A simple testing set for prescribing aspheric spectacle magnifiers includes:-

- Testing lenses from 2x to 8x magnification
- Lenses that fit left or right eye
- 3 Keeler frames in small, medium and large sizes
- 'A' series reading chart for assessment of magnification requirements

*Redi-fit lenses are available for instant dispensing which are cut and edged to fit our standard LVA frame*



## Tool Kit

Provides the tools required to mount Keeler telescopes onto spectacle lenses using the advanced method:

- Telescopes can be fitted directly onto plano or prescription lenses (CR39)
- Any suitable frame may be used
- Spectacle mounted aids can be assembled in practice, saving time and money
- Assembly instructions are included for both monocular and binocular mounting

Part Numbers	2280-P-1065	Redifit Set
	2280-P-1102	LVA toolkit for assessment sets

Due to the specialist nature of the Keeler Low Vision range we prefer to sell / dispense via distributors. For details of these distributors please refer to the Low Vision section of our website [www.keeler.co.uk](http://www.keeler.co.uk)



# 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

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







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