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A milestone in Tonometry

“An 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 single 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.

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 helds 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/discard 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.
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

<table>
<thead>
<tr>
<th>Part Numbers</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1132-P-1157</td>
<td>3.6V Specialist Ophthalmoscope on Lithium Handle</td>
</tr>
<tr>
<td>1132-P-1149</td>
<td>2.8V Specialist Ophthalmoscope on Dry Cell Handle</td>
</tr>
<tr>
<td>1011-P-7034</td>
<td>Pack of 2 Vista 20/Specialist Ophth. Bulbs 3.6V Halogen</td>
</tr>
<tr>
<td>1011-P-7042</td>
<td>Pack of 2 Vista 20/Specialist Ophth. Bulbs 2.8V Halogen</td>
</tr>
</tbody>
</table>
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.

Xenon illumination

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

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.

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.

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.

Part Numbers

<table>
<thead>
<tr>
<th>Part Numbers</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>1128-P-1014</td>
<td>3.6V Professional Ophthalmoscope on Lithium Handle</td>
</tr>
<tr>
<td>1128-P-1013</td>
<td>2.8V Professional Ophthalmoscope on Lithium Handle</td>
</tr>
<tr>
<td>Accessories</td>
<td></td>
</tr>
<tr>
<td>1011-P-7114</td>
<td>Pack of 2 Professional Ophthalmoscope Bulbs 3.6V Xenon</td>
</tr>
<tr>
<td>1011-P-7106</td>
<td>Pack of 2 Professional Ophthalmoscope Bulbs 2.8V Xenon</td>
</tr>
<tr>
<td>1102-P-1041</td>
<td>Pocket Ophthalmoscope</td>
</tr>
<tr>
<td>1011-P-7050</td>
<td>Pack of 2 Pocket Ophthalmoscope Bulbs 2.8V Halogen</td>
</tr>
</tbody>
</table>
**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.

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**Part Numbers**

<table>
<thead>
<tr>
<th>Part Numbers</th>
<th>Description</th>
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<tbody>
<tr>
<td>1302-P-1011</td>
<td>Professional Streak Retinoscope 3.6V</td>
</tr>
<tr>
<td>1302-P-1009</td>
<td>Professional Spot Retinoscope 3.6V</td>
</tr>
<tr>
<td>1302-P-1010</td>
<td>Professional Streak Retinoscope 2.8V</td>
</tr>
<tr>
<td>1302-P-1008</td>
<td>Professional Spot Retinoscope 2.8V</td>
</tr>
<tr>
<td>1013-P-7009</td>
<td>Pack of 2 Professional Streak Retinoscope bulbs 3.6V</td>
</tr>
<tr>
<td>1013-P-7011</td>
<td>Pack of 2 Professional Spot Retinoscope bulbs 3.6V</td>
</tr>
<tr>
<td>1013-P-7008</td>
<td>Pack of 2 Professional Streak Retinoscope bulbs 2.8V</td>
</tr>
<tr>
<td>1013-P-7010</td>
<td>Pack of 2 Professional Spot Retinoscope bulbs 2.8V</td>
</tr>
<tr>
<td>1013-P-7009</td>
<td>Pack of 2 Semi Reflector or Full Aperture Streak Bulbs 3.6V</td>
</tr>
<tr>
<td>1013-P-7007</td>
<td>Pack of 2 Semi Reflector or Full Aperture Spot Bulbs 3.6V</td>
</tr>
<tr>
<td>1013-P-7008</td>
<td>Pack of 2 Semi Reflector or Full Aperture Streak Bulbs 2.8V</td>
</tr>
<tr>
<td>1013-P-7006</td>
<td>Pack of 2 Semi Reflector or Full Aperture Spot Bulbs 2.8V</td>
</tr>
</tbody>
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**Near Point Cards for Retinoscopy**

**Part Number** 1321-P-7021

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**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.

<table>
<thead>
<tr>
<th>Part Numbers</th>
<th>Description</th>
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<tbody>
<tr>
<td>1427-P-1063</td>
<td>Specialist &amp; Professional Streak Ret. Set 3.6v Lithium Battery</td>
</tr>
<tr>
<td>1427-P-1065</td>
<td>Specialist &amp; Professional Spot Ret. Set 3.6v Lithium Battery</td>
</tr>
<tr>
<td>1427-P-1062</td>
<td>Specialist &amp; Professional Streak Ret. Set 2.8v Dry Cell Battery</td>
</tr>
<tr>
<td>1427-P-1064</td>
<td>Specialist &amp; Professional Spot Ret. Set 2.8v Dry Cell Battery</td>
</tr>
<tr>
<td>1941-P-1368</td>
<td>Lithium Double Charger</td>
</tr>
<tr>
<td>1999-P-7308</td>
<td>Wall Bracket for above</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Part Numbers</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1964-P-2001</td>
<td>Double Cord handle power supply</td>
</tr>
<tr>
<td>1132-P-1050</td>
<td>3.6V Specialist Ophthalmoscope head only</td>
</tr>
<tr>
<td>1128-P-1004</td>
<td>3.6V Professional Ophthalmoscope head only</td>
</tr>
<tr>
<td>1132-P-1042</td>
<td>2.8V Specialist Ophthalmoscope head only</td>
</tr>
<tr>
<td>1128-P-1003</td>
<td>2.8V Professional Ophthalmoscope head only</td>
</tr>
<tr>
<td>1302-P-1007</td>
<td>3.6V Streak Retinoscope head only</td>
</tr>
<tr>
<td>1302-P-1005</td>
<td>3.6V Spot Retinoscope head only</td>
</tr>
<tr>
<td>1302-P-1006</td>
<td>2.8V Streak Retinoscope head only</td>
</tr>
<tr>
<td>1302-P-1004</td>
<td>2.8V Spot Retinoscope head only</td>
</tr>
</tbody>
</table>
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.

<table>
<thead>
<tr>
<th>Part Numbers</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>1941-P-1368</td>
<td>Lithium-ion Double Charger</td>
</tr>
<tr>
<td>1911-P-1228</td>
<td>Lithium-ion Double Charger and 2 Handles (Upgrade Kit)</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Part Numbers</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1941-P-1341</td>
<td>Mini Lithium-ion Charger</td>
</tr>
<tr>
<td>1911-P-1236</td>
<td>Mini Lithium-ion Charger plus Handle (Upgrade Kit)</td>
</tr>
</tbody>
</table>

Lithium Battery

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP39-18918</td>
<td>Lithium Battery</td>
</tr>
</tbody>
</table>
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.
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.

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

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

(Patent pending)

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

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

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

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

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

Exclusive - IOS Optics allows Small Pupil Imaging without any obstructions

Vantage Plus iOS Optics
View through Vantage Plus with IOS Optics.
When small pupil is selected there is no obstruction of the retina.

Non IOS Optic System
View through NON IOS Optical Systems.
When small pupil is selected there is an obstruction, reducing your clinical information.
Quality and efficiency
The redesigned optics combined with the new LED or Xenon light source offer brighter high definition retinal images - PLUS you get more life from whichever Keeler battery (Metal Hydride or Lithium) you use.

15% lighter
The Vantage Plus uses advanced textured engineering materials, providing a lighter, smaller and more compact instrument without compromising the renowned Keeler reputation for robustness, reliability and quality.

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

The new teaching mirror just slides on and off with ease
Allowing two observers to view the retina at the same time.

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

Never run out of power
Keeler wireless system comes standard with two lithium batteries (slimline) and they last so long, it may take months before you need to charge them again.

Unique - The new HiMag™ (patented) lens just slides on and off with ease
This unique feature is only offered with the Vantage Plus indirect. It gives you a 1.6X additional magnification than with a condensing lens alone, providing superb stereoscopic images. Scratch resistant coated optics guarantee high quality images at all times and HiMag™ can be simply flipped out of view when not required.
New high contrast optics
The new compact and high contrast viewing optics use LED or Xenon illumination that gives you brilliantly crisp, glare free, superior views of the retina every time.

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

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

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.

<table>
<thead>
<tr>
<th>Part Numbers</th>
<th>Wireless LED version</th>
<th>Wireless Bulb version</th>
<th>Wired LED version</th>
<th>Accessories</th>
</tr>
</thead>
<tbody>
<tr>
<td>1205-P-1016</td>
<td>Vantage Plus LED, Slimline Battery &amp; Accessories*</td>
<td>Vantage Plus Bulb version, Slimline Battery &amp; Accessories*</td>
<td>Vantage Plus LED Wired &amp; Accessories*</td>
<td>1202-P-7205 Vantage Plus Teaching Mirror</td>
</tr>
<tr>
<td>1205-P-1020</td>
<td>Vantage Plus LED, Slimline Battery &amp; charger</td>
<td>Vantage Plus Bulb version, Slimline Battery &amp; charger</td>
<td>Vantage Plus LED Wired</td>
<td>1202-P-7192 Vantage Plus Hi Mag Lens</td>
</tr>
<tr>
<td>1205-P-1019</td>
<td>Vantage Plus LED, Standard Battery &amp; charger</td>
<td>Vantage Plus Bulb version, Standard Battery &amp; charger</td>
<td>Vantage Plus Bulb version Wired</td>
<td>1299-P-1028 Video Vantage including Camera in Carrying Case</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3412-P-7000 Vantage Plus Carrying Case</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1201-P-6075 Small Depressor</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1201-P-6067 Large Depressor</td>
</tr>
</tbody>
</table>

P D Range: 52 - 76mm

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.

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

P D Range: 47 - 75mm
**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.

**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.

<table>
<thead>
<tr>
<th>Part Numbers</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1205-P-1000</td>
<td>Spectra Plus Indirect on Blue Keeler Frame</td>
</tr>
<tr>
<td>1205-P-1001</td>
<td>Spectra Plus Indirect on Red Keeler Frame</td>
</tr>
<tr>
<td>1205-P-1002</td>
<td>Spectra Plus Indirect on Black Keeler Frame</td>
</tr>
<tr>
<td>1205-P-1003</td>
<td>Spectra Plus Indirect on Sky Blue Keeler Frame</td>
</tr>
<tr>
<td>1205-P-7000</td>
<td>Spectra Plus Teaching Mirror</td>
</tr>
<tr>
<td>1919-P-5215</td>
<td>Spectra Plus Rechargeable Battery</td>
</tr>
<tr>
<td>1941-P-5385</td>
<td>Spectra Plus Lithium Charger and Battery</td>
</tr>
<tr>
<td>3412-P-7002</td>
<td>Spectra Plus Carrying Case</td>
</tr>
<tr>
<td>1201-P-6075</td>
<td>Small Depressor</td>
</tr>
<tr>
<td>1201-P-6067</td>
<td>Large Depressor</td>
</tr>
</tbody>
</table>

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

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

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

**Part Number** 1919-P-5338  **Slimline Lithium Polymer Battery**

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

**Part Number** 1919-P-1013  **Standard Lithium Battery**

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

**Part Number** 1945-P-5012  **Slimline Wireless Charger**
Standard Wireless Charger
The Standard Wireless Charger can be wall or desk mounted with location for spare battery, which means you will always have a back-up. LED indicates when battery needs charging.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Standard Wireless Charger</th>
</tr>
</thead>
<tbody>
<tr>
<td>1941-P-1384</td>
<td></td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Part Numbers</th>
<th>SmartPack</th>
</tr>
</thead>
<tbody>
<tr>
<td>1945-P-1001</td>
<td></td>
</tr>
<tr>
<td>EP39-22079</td>
<td>SmartPack Battery</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>WallPack</th>
</tr>
</thead>
<tbody>
<tr>
<td>1945-P-1000</td>
<td></td>
</tr>
</tbody>
</table>

Which system is right for you?

<table>
<thead>
<tr>
<th>Vantage Plus Usable Life</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Source</td>
</tr>
<tr>
<td>Slimline Battery</td>
</tr>
<tr>
<td>Standard Battery</td>
</tr>
<tr>
<td>SmartPack</td>
</tr>
</tbody>
</table>

* 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-vitreal Probe 2509-P-8003
7. Collins Trichiasis Probe 2509-P-8006

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.

Keeler Cryomatic Accessories

<table>
<thead>
<tr>
<th>Part Numbers</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2508-P-7005</td>
<td>Cryomatic Stand (Trolley)</td>
</tr>
<tr>
<td>2509-P-8015</td>
<td>Sterilization Box (not included with pencil)</td>
</tr>
</tbody>
</table>
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

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).

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!

Part Numbers

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

Part Numbers

<table>
<thead>
<tr>
<th>Part Numbers</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2401-P-2671</td>
<td>Kowa HA-2 hand-held applanation Tonometer (without prism)</td>
</tr>
<tr>
<td>2401-P-8037</td>
<td>Applanation Tonometer doubling prism</td>
</tr>
</tbody>
</table>
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

<table>
<thead>
<tr>
<th>Fan and block</th>
<th>Contrast Sensitivity</th>
<th>Colour test</th>
</tr>
</thead>
</table>

Part Number 2204-P-2488 CSO Vision Chart
Test Types
Slimline, internally illuminated, remote controlled test types and accessories

Keeler Finesse

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

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

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

<table>
<thead>
<tr>
<th>Part Numbers</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2204-P-2306</td>
<td>Keeler Finesse</td>
</tr>
<tr>
<td>2204-P-2322</td>
<td>Keeler Finesse Elite with additional Fan and Block</td>
</tr>
</tbody>
</table>

Finesse Single Sided Test Type

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

<table>
<thead>
<tr>
<th>Part Numbers</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2204-P-2429</td>
<td>Single Sided Test Type 3 Metre Direct</td>
</tr>
<tr>
<td>2204-P-2410</td>
<td>Single Sided Test Type 6 Metre Direct/Indirect</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Part Numbers</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2204-P-2402</td>
<td>Four Sided Test Type Manual</td>
</tr>
<tr>
<td>2204-P-2381</td>
<td>Four Sided Test Type Motorised/Air Switch</td>
</tr>
<tr>
<td>2204-P-2349</td>
<td>Four Sided Test Type Infra Red Remote Control</td>
</tr>
<tr>
<td>2204-P-2365</td>
<td>Four Sided Test Type Manual</td>
</tr>
<tr>
<td>2204-P-2357</td>
<td>Four Sided Test Type Motorised/Air Switch</td>
</tr>
<tr>
<td>2204-P-2349</td>
<td>Four Sided Test Type Infra Red Remote Control</td>
</tr>
<tr>
<td>2204-P-7393</td>
<td>Floor Stand for Four Sided Test Types</td>
</tr>
<tr>
<td>2204-P-7406</td>
<td>Wall Bracket for Four Sided Test Types</td>
</tr>
</tbody>
</table>
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.

<table>
<thead>
<tr>
<th>Part Numbers</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2204-P-2437</td>
<td>LogMAR 4 Metre Test Type</td>
</tr>
<tr>
<td>2204-P-2445</td>
<td>Base for LogMAR Test Type</td>
</tr>
<tr>
<td>2204-P-2461</td>
<td>Letter Chart</td>
</tr>
<tr>
<td>2204-P-2453</td>
<td>Number Chart</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Part Numbers</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2207-P-1173</td>
<td>New Oculus Universal</td>
</tr>
<tr>
<td>2207-P-1114</td>
<td>Oculus Standard</td>
</tr>
<tr>
<td>2207-P-1149</td>
<td>Oculus Adult Half Eye with adjustable nose rest</td>
</tr>
<tr>
<td>2207-P-1130</td>
<td>Oculus Children’s Half Eye with adjustable nose rest</td>
</tr>
<tr>
<td>2207-P-1181</td>
<td>Simplex Trial Frame</td>
</tr>
</tbody>
</table>

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

Oculus Universal

Oculus Standard

Simplex Trial Frame
New Children’s Trial Frame

New UB5 Trial Frame, designed specifically for children

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

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

Trial Lens Sets

New Trial Lens Set for Children’s Trial Frame

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

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

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

Premium Trial Lens Sets

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

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

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

<table>
<thead>
<tr>
<th>Part Numbers</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2201-P-1121</td>
<td>Reduced Aperture Trial Lens Set in vinyl case (232 lenses)</td>
</tr>
<tr>
<td>2201-P-1148</td>
<td>Full Aperture Trial Lens Set in vinyl case (266 lenses)</td>
</tr>
</tbody>
</table>

Occluders and Accessories

ABDO Pocket Rule
Offers an interpupillary distance and measures distance between lenses.
Designed to measure most specifications relating to spectacles.

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

Green and Red Maddox Rods
Ideal for muscle balance examination.

Romanes Occluder

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

<table>
<thead>
<tr>
<th>Part Numbers</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2299-P-1217</td>
<td>ABDO Pocket Rule</td>
</tr>
<tr>
<td>2301-P-1014</td>
<td>Fixation Bar</td>
</tr>
<tr>
<td>2299-P-1049</td>
<td>Clip on Occluders</td>
</tr>
<tr>
<td>2299-P-1233</td>
<td>Romanes Occluder</td>
</tr>
<tr>
<td>2203-P-1184</td>
<td>Green Maddox Rod</td>
</tr>
<tr>
<td>2203-P-1176</td>
<td>Red Maddox Rod</td>
</tr>
<tr>
<td>2299-P-1305</td>
<td>City Rule</td>
</tr>
</tbody>
</table>
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.

<table>
<thead>
<tr>
<th>Part Numbers</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2203-P-1299</td>
<td>Confirmation Test (4 lenses, 2 Pairs Each +/-0.25D)</td>
</tr>
<tr>
<td>2203-P-1096</td>
<td>Confirmation Test (4 lenses, 2 Pairs Each +/-0.50D)</td>
</tr>
<tr>
<td>2203-P-1109</td>
<td>Confirmation Test (4 lenses, 2 Pairs Each +/-1.00D)</td>
</tr>
<tr>
<td>2203-P-1117</td>
<td>Confirmation Test (4 lenses 2 Pairs one +/-0.25D, one +/-0.50D)</td>
</tr>
</tbody>
</table>

Keeler and Jackson Cross Cylinders and Confirmation Tests

Clearly marked high quality lenses.

<table>
<thead>
<tr>
<th>Part Numbers</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2203-L-1318</td>
<td>Keeler Cross Cylinder 0.25D</td>
</tr>
<tr>
<td>2203-L-1326</td>
<td>Keeler Cross Cylinder 0.50D</td>
</tr>
<tr>
<td>2203-P-1029</td>
<td>Pair of Keeler Cross Cylinders in case</td>
</tr>
<tr>
<td>2203-P-1205</td>
<td>Jackson Cross Cylinder +/-0.25D</td>
</tr>
<tr>
<td>2203-P-1213</td>
<td>Jackson Cross Cylinder +/-0.50D</td>
</tr>
<tr>
<td>2203-P-1221</td>
<td>Jackson Cross Cylinder +/-0.75D</td>
</tr>
<tr>
<td>2203-P-1248</td>
<td>Jackson Cross Cylinder +/-1.00D</td>
</tr>
</tbody>
</table>

Keeler Monocular Confirmation Tests

<table>
<thead>
<tr>
<th>Part Numbers</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2203-L-1350</td>
<td>Monocular Spherical Twirl +/-0.25D</td>
</tr>
<tr>
<td>2203-L-1369</td>
<td>Monocular Spherical Twirl +/-0.50D</td>
</tr>
</tbody>
</table>
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


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

Part Numbers 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°

Part Numbers 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

<table>
<thead>
<tr>
<th>Lens</th>
<th>Field of View</th>
<th>Image Mag.</th>
<th>Laser Spot Size</th>
<th>Primary Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Digital High Mag Lens</td>
<td>57° / 70°</td>
<td>1.30x</td>
<td>0.77x</td>
<td>Highest Resolution, High Magnification Imaging of the Central Retina</td>
</tr>
<tr>
<td>Digital Wide Field Lens</td>
<td>103° / 124°</td>
<td>.72x</td>
<td>1.39x</td>
<td>Highest Resolution Pan Retinal Examination</td>
</tr>
<tr>
<td>Digital 1.0x Imaging Lens</td>
<td>60° / 72°</td>
<td>1.0x</td>
<td>1.0x</td>
<td>High-resolution diagnosis of the posterior pole and reduced glare and reflections</td>
</tr>
</tbody>
</table>
Super Series Slit Lamp Lenses

**SuperField®**
Its small 30.2mm diameter housing proves to be highly useful for dynamic fundoscopy, 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 pan 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 |

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

- glare and reflections
Classsic 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.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>2105-P-1084</th>
<th>60D Classic Lens</th>
</tr>
</thead>
</table>

78D
The patented Double Aspheric 78D is an excellent general diagnostic laser treatment lens offering an ideal .93x image magnification and wide 97º dynamic field of view.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>2105-P-1009</th>
<th>78D Classic Lens</th>
</tr>
</thead>
</table>

90D
The original Volk 90D features a small 26mm diameter ring design which is outstanding for dynamic fundoscopy. The Vol 90 has good small pupil capabilities, making it ideal for a quick look at the posterior pole.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>2105-L-1103</th>
<th>90D Classic Lens</th>
</tr>
</thead>
</table>

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

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

<table>
<thead>
<tr>
<th>Part Number</th>
<th>2105-L-1240</th>
<th>ClearField Digital Indirect Ophthalmoscope Lens</th>
</tr>
</thead>
</table>

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

<table>
<thead>
<tr>
<th>Part Number</th>
<th>2105-L-1859</th>
<th>ClearMag Digital Indirect Ophthalmoscope Lens</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Lens</th>
<th>Field of View</th>
<th>Image Mag.</th>
<th>Laser Spot Size</th>
<th>Primary Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>ClearField</td>
<td>55° / 72°</td>
<td>2.79x</td>
<td>0.36x</td>
<td>Highest Resolution Pan Retinal Examination</td>
</tr>
<tr>
<td>ClearMag</td>
<td>38° / 49°</td>
<td>3.89x</td>
<td>0.26x</td>
<td>Highest Resolution High Mag. Optic Disc &amp; Posterior Pole Exam.</td>
</tr>
</tbody>
</table>
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 dioptre 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

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

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

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

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.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Lens</th>
<th>Field of View</th>
<th>Image Mag.</th>
<th>Laser Spot Mag.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2105-L-1728</td>
<td>Centralis Direct®</td>
<td>22° / 26°</td>
<td>.9x</td>
<td>1.11x</td>
</tr>
</tbody>
</table>

**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.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Lens</th>
<th>Field of View</th>
<th>Image Mag.</th>
<th>Laser Spot Mag.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2105-L-1736</td>
<td>Fundus Laser Lens</td>
<td>35° / 40°</td>
<td>1.25x</td>
<td>.8x</td>
</tr>
</tbody>
</table>

**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.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Lens</th>
<th>Field of View</th>
<th>Image Mag.</th>
<th>Laser Spot Mag.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2105-L-1592</td>
<td>Capsulotomy Lens</td>
<td>N/A</td>
<td>1.57x</td>
<td>.63x</td>
</tr>
</tbody>
</table>

**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.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Lens</th>
<th>Field of View</th>
<th>Image Mag.</th>
<th>Laser Spot Mag.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2105-L-1605</td>
<td>Iridectomy Lens</td>
<td>N/A</td>
<td>.7x</td>
<td>.58x</td>
</tr>
</tbody>
</table>

**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.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Lens</th>
<th>Field of View</th>
<th>Image Mag.</th>
<th>Laser Spot Mag.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2105-L-1744</td>
<td>Blumenthal Suturelysis Lens</td>
<td>N/A</td>
<td>2x - 3x</td>
<td>.50x - .33x</td>
</tr>
</tbody>
</table>
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.

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).

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

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

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

<table>
<thead>
<tr>
<th>Part Numbers</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>3105-L-2434</td>
<td>Kowa Non Myd 7 Camera complete with VK-2 software</td>
</tr>
<tr>
<td>3105-L-2362</td>
<td>Kowa Non Myd external fixation target</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Part Numbers</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>3105-L-2397</td>
<td>Kowa Genesis D complete, without Case</td>
</tr>
<tr>
<td>3431-L-8553</td>
<td>Kowa Genesis D carrying case</td>
</tr>
<tr>
<td>3105-L-8561</td>
<td>Kowa Genesis D footswitch</td>
</tr>
<tr>
<td>3105-L-8588</td>
<td>Kowa Genesis D 28D lens holder</td>
</tr>
</tbody>
</table>

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.

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.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>tba</td>
<td>Kowa FM-600 Laser Flare Meter</td>
</tr>
</tbody>
</table>
Slit Lamps and Video Slit Lamps

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

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

Video Slit Lamp and video options

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

SL-40 Di Digital Slit Lamp

Building on the outstanding optical system of the Keeler SL-40H, the 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 fibre vid Slit Lamp complete on table top with software

For Volk Slit Lamp Lenses please see page 36-38
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 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

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2402-P-2198</td>
<td>SL-40 Slit Lamp (x6, x10, x16, x25 and x40)</td>
</tr>
</tbody>
</table>

**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.

<table>
<thead>
<tr>
<th>Part Numbers</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>3009-P-7008</td>
<td>Double port beam splitter for SL-33 and SL-40</td>
</tr>
<tr>
<td>3009-P-7020</td>
<td>External Fibre Optic Illumination System for SL-33 and SL-40</td>
</tr>
<tr>
<td>3009-P-7009</td>
<td>C mount for CCTV camera for beamsplitter</td>
</tr>
<tr>
<td>3009-P-7028</td>
<td>Coolpix mount for 990 950 995 and 4500</td>
</tr>
</tbody>
</table>

**Part Numbers**

<table>
<thead>
<tr>
<th>1030-P-7160</th>
<th>6V 20W Slit Lamp Halogen bulb</th>
</tr>
</thead>
<tbody>
<tr>
<td>1030-P-7152</td>
<td>Slit Lamp Halogen bulb for Digital Slit Lamp</td>
</tr>
</tbody>
</table>
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.

<table>
<thead>
<tr>
<th>Part Numbers</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>3002-P-2038</td>
<td>Kowa SL-15 Rechargeable hand-held portable Slit Lamp</td>
</tr>
<tr>
<td>3431-P-7021</td>
<td>Kowa SL-15 Optical head carrying case</td>
</tr>
<tr>
<td>3431-P-7048</td>
<td>Kowa SL-15 Carrying case for complete unit</td>
</tr>
<tr>
<td>1030-P-7082</td>
<td>Kowa SL-15 bulb</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2210-P-1035</td>
<td>Reichert Rx Master (white) with – clys</td>
</tr>
</tbody>
</table>
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 Dioptries measuring range
- Single Joystick control for height and position
- Illuminated measuring scale
- Extremely accurate

<table>
<thead>
<tr>
<th>Part Numbers</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2402-P-2147</td>
<td>Javal Keratometer</td>
</tr>
<tr>
<td>2402-P-2155</td>
<td>Javal Keratometer illumination bulb (6V, 10W)</td>
</tr>
<tr>
<td>2402-P-2163</td>
<td>Javal Keratometer scale lamp (6V, 3W)</td>
</tr>
</tbody>
</table>

B & L type Keratometer

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

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2402-P-2200</td>
<td>Bobes Keratometer, type II</td>
</tr>
</tbody>
</table>

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
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.

<table>
<thead>
<tr>
<th>Part Numbers</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2208-P-2379</td>
<td>Retinomax 3 and accessories</td>
</tr>
<tr>
<td>2208-P-2387</td>
<td>Retinomax K-plus 3 and accessories</td>
</tr>
<tr>
<td>2208-P-7032</td>
<td>Optional carrying case</td>
</tr>
</tbody>
</table>
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.

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.

Part Numbers | Part Numbers | Description
--- | --- | ---
2208-P-2047 | 2208-P-2039 | Kowa KA-1000 Auto Refractometer
Kowa KW-2000 Auto RefKeratometer

Part Numbers | Part Numbers | Description
--- | --- | ---
2209-P-2065 | 2209-P-7325 | 2204-P-7377 | Pro-chart Chart Projector (37 charts) with contrast sensitivity
Accessories
Wall Bracket for Chart Projector
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.

<table>
<thead>
<tr>
<th>Feature</th>
<th>Compact</th>
<th>Eco</th>
<th>One</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sliding double table</td>
<td>✔</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fixed double table</td>
<td></td>
<td>✔</td>
<td></td>
</tr>
<tr>
<td>Motorised single instrument table</td>
<td></td>
<td></td>
<td>✔</td>
</tr>
<tr>
<td>Motorised table elevation</td>
<td></td>
<td></td>
<td>✔</td>
</tr>
<tr>
<td>Comfy 2 chair, motorised elevation, manual recline</td>
<td>✔</td>
<td></td>
<td>Option</td>
</tr>
<tr>
<td>Soul basic chair, motorised elevation, fixed backrest</td>
<td>✔</td>
<td>✔</td>
<td>Option</td>
</tr>
<tr>
<td>Anterior / posterior chair movement</td>
<td></td>
<td>Option</td>
<td></td>
</tr>
<tr>
<td>Wheelchair friendly</td>
<td></td>
<td></td>
<td>✔</td>
</tr>
<tr>
<td>Keeler lithium recharging wells (2)</td>
<td>✔</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Simple panel, single or 3 drawer panels</td>
<td>✔</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Auxiliary lighting control (room lights)</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Clear ‘membrane’ control icons</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
</tbody>
</table>
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.

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.

<table>
<thead>
<tr>
<th>Part Numbers</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>3301-P-2476</td>
<td>Compact Refraction Stand with Comfy 2 Chair and control panel</td>
</tr>
<tr>
<td>3301-P-2484</td>
<td>Compact Refraction Stand with Comfy 2 Chair and single drawer console</td>
</tr>
<tr>
<td>3301-P-2492</td>
<td>Compact Refraction Stand with Comfy 2 Chair and three drawer console</td>
</tr>
</tbody>
</table>
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.

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.
Refraction Stand Accessories

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

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.

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.

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

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

<table>
<thead>
<tr>
<th>Part Numbers</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>3302-P-7017</td>
<td>Comfy 2 Chair for refraction units</td>
</tr>
<tr>
<td>3302-P-7019</td>
<td>Comfy 2 Chair with base plate for ‘One’ unit</td>
</tr>
<tr>
<td>3302-P-7018</td>
<td>Comfy 2 Chair with base plate and footswitch for stand alone use</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Part Numbers</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>3302-P-7022</td>
<td>Eco (Soul Plus) chair for ‘One’ unit</td>
</tr>
<tr>
<td>3302-P-7023</td>
<td>Eco (Soul Plus) chair for refraction units</td>
</tr>
</tbody>
</table>
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.

Gas Lift Stool

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

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.
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

<table>
<thead>
<tr>
<th>Part Numbers</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>3304-P-7045</td>
<td>Electric Elevation Table - centre leg (select top)</td>
</tr>
<tr>
<td>3304-P-7053</td>
<td>Manual Counterbalanced Table - centre leg (select top)</td>
</tr>
</tbody>
</table>

Table tops

<table>
<thead>
<tr>
<th>Part Numbers</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>3009-P-7016</td>
<td>Single Top 45 x 58 cm</td>
</tr>
<tr>
<td>3009-P-7024</td>
<td>Double Boomerang Table Top</td>
</tr>
</tbody>
</table>

Tables with tops

<table>
<thead>
<tr>
<th>Part Numbers</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>3304-P-7061</td>
<td>Electric Elevation Table with 43 x 80 top and side leg, for wheelchair access</td>
</tr>
<tr>
<td>3304-L-1303</td>
<td>Centre Leg Table with small angled top 100 x 56 Non Myd + Laptop</td>
</tr>
</tbody>
</table>

Sliding top

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>3009-P-7017</td>
<td>Double Sliding Table Top for Centre leg manual or electric table legs</td>
</tr>
</tbody>
</table>
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 23º 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 12.5º
- 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 7º
- 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

<table>
<thead>
<tr>
<th>Part Numbers</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2280-P-1161</td>
<td>Advanced assessment set</td>
</tr>
<tr>
<td>2280-P-1153</td>
<td>Basic assessment set</td>
</tr>
</tbody>
</table>
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

<table>
<thead>
<tr>
<th>Part Numbers</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2280-P-1065</td>
<td>Redi-fit Set</td>
</tr>
<tr>
<td>2280-P-1102</td>
<td>LVA toolkit for assessment sets</td>
</tr>
</tbody>
</table>

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
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 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.

---

SuperVu Galilean system Part Numbers

<table>
<thead>
<tr>
<th>Magnification</th>
<th>Product Code</th>
<th>Working Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.0x</td>
<td>2112-P-1002</td>
<td>@ 34cm</td>
</tr>
<tr>
<td></td>
<td>2112-P-1003</td>
<td>@ 46cm</td>
</tr>
<tr>
<td>2.5x</td>
<td>2112-P-1010</td>
<td>@ 34cm</td>
</tr>
<tr>
<td></td>
<td>2112-P-1011</td>
<td>@ 42cm</td>
</tr>
<tr>
<td></td>
<td>2112-P-1012</td>
<td>@ 46cm</td>
</tr>
<tr>
<td></td>
<td>2112-P-1013</td>
<td>@ 50cm</td>
</tr>
</tbody>
</table>

SuperVu Hi-Res Galilean system Part Numbers

<table>
<thead>
<tr>
<th>Magnification</th>
<th>Product Code</th>
<th>Working Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.0x</td>
<td>2112-P-1050</td>
<td>@ 34cm</td>
</tr>
<tr>
<td></td>
<td>2112-P-1051</td>
<td>@ 42cm</td>
</tr>
<tr>
<td></td>
<td>2112-P-1052</td>
<td>@ 46cm</td>
</tr>
<tr>
<td></td>
<td>2112-P-1053</td>
<td>@ 50cm</td>
</tr>
</tbody>
</table>

SuperVu accessories

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Accessories</th>
</tr>
</thead>
<tbody>
<tr>
<td>2112-P-8049</td>
<td>Protective Caps</td>
</tr>
<tr>
<td>2112-P-8057</td>
<td>+1D Near distance Caps</td>
</tr>
</tbody>
</table>
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.

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.
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 paraxally 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.

### Part Numbers

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2004-P-1007</td>
<td>Keeler fit K-L.E.D. system with twin charger tray</td>
</tr>
<tr>
<td>2004-P-1009</td>
<td>Universal fit K-L.E.D. system with twin charger tray</td>
</tr>
<tr>
<td>2004-P-1011</td>
<td>Universal fit K-L.E.D. system with single charger and bag</td>
</tr>
<tr>
<td>2004-P-1012</td>
<td>Keeler fit K-L.E.D. system with single charger and bag</td>
</tr>
</tbody>
</table>

Designed for comfort

Choose from the new Keeler Sport frame or a headband mounted system to mount your loupes. Adaptable to all prescriptions.
Keeler Ltd.
Clewer Hill Road, Windsor
Berkshire, SL4 4AA
Tel: +44 (0) 1753 857177
Fax: +44 (0) 1753 827145
Email: info@keeler.co.uk
Website: www.keeler.co.uk

Keeler Scotland
25 Deerdykes View
Westfield Estate
Cumbernauld G68 9HN
Tel: +44 (0) 1236 721214
Fax: +44 (0) 1236 721231