Keeler
Decades of innovation

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

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

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

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

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

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

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

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

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

Go Wireless with Vantage Plus - the market leading indirect ophthalmoscope!
New LED exclusively on Vantage Plus and Spectra Plus

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

Comfort and balance

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

Clear, sharp images – enclosed KeeView Optics™

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

Adjustable brilliant illumination

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

Wide angle diffuser

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

Apertures and filters

- **Red Free** - This filter is used to examine blood vessels in fine detail. By filtering out the red light, blood vessels are silhouetted against a green background.
- **Cobalt Blue** - This filter is used with fluorescein dye for angiography.
- **Large Aperture** - Ideal when examining fully dilated pupils.
- **Intermediate** - Ideal for children and sensitive patients.
- **Small Aperture** - Ideal for undilated pupils.
- **Diffuser**

With Diffuser

Without Diffuser
Vantage Plus
The best just gets better

New LED illumination and Slimline Lithium Polymer battery

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

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

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

- 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.

Part Numbers

<table>
<thead>
<tr>
<th>Wireless LED version</th>
<th>Wireless Bulb version</th>
</tr>
</thead>
<tbody>
<tr>
<td>1205-P-1016 Vantage Plus LED, Slimline Battery &amp; Accessories*</td>
<td>1204-P-3065 Vantage Plus Bulb version, Slimline Battery &amp; Accessories*</td>
</tr>
<tr>
<td>1205-P-1020 Vantage Plus LED, Slimline Battery &amp; charger</td>
<td>1204-P-3067 Vantage Plus Bulb version, Slimline Battery &amp; charger</td>
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<tr>
<td>1205-P-1015 Vantage Plus LED, Standard Battery &amp; Accessories*</td>
<td>1204-P-3059 Vantage Plus Bulb version, Standard Battery &amp; Accessories*</td>
</tr>
<tr>
<td>1205-P-1019 Vantage Plus LED, Standard Battery &amp; charger</td>
<td>1204-P-3056 Vantage Plus Bulb version, Standard Battery &amp; charger</td>
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Wired LED version

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<tbody>
<tr>
<td>1205-P-1011 Vantage Plus LED Wired &amp; Accessories*</td>
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<tr>
<td>1205-P-1010 Vantage Plus LED Wired</td>
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Wired Bulb version

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<tbody>
<tr>
<td>1204-P-3058 Vantage Plus Bulb version Wired &amp; Accessories*</td>
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Accessories

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<tbody>
<tr>
<td>1202-P-7205 Vantage Plus Teaching Mirror</td>
</tr>
<tr>
<td>1202-P-7192 Vantage Plus Hi Mag Lens</td>
</tr>
<tr>
<td>1012-P-7006 Vantage Plus Bulbs (pack of 2)</td>
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<tr>
<td>1299-P-1028 Video Vantage including Camera in Carrying Case</td>
</tr>
<tr>
<td>3412-P-7000 Vantage Plus Carrying Case</td>
</tr>
<tr>
<td>1201-P-6075 Small Depressor</td>
</tr>
<tr>
<td>1201-P-6067 Large Depressor</td>
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</tbody>
</table>

*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.

Part Numbers

<table>
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<tr>
<th>Part Numbers</th>
<th>Description</th>
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<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.

Part Numbers

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<th>Part Numbers</th>
<th>Description</th>
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<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>
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<tr>
<td>3412-P-7002</td>
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<td>1201-P-6075</td>
<td>Small Depressor</td>
</tr>
<tr>
<td>1201-P-6067</td>
<td>Large Depressor</td>
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</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.

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<th>Part Number</th>
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<tr>
<td>1941-P-1384</td>
<td>Standard Wireless Charger</td>
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</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>
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<tr>
<th>Part Numbers</th>
<th>Description</th>
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<tbody>
<tr>
<td>1945-P-1001</td>
<td>SmartPack</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.

Which system is right for you?

<table>
<thead>
<tr>
<th>Power Source</th>
<th>Vantage Plus Usable Life</th>
</tr>
</thead>
<tbody>
<tr>
<td>Slimline Battery</td>
<td>LED: 6 hours*</td>
</tr>
<tr>
<td></td>
<td>Bulb: 1.5 hours*</td>
</tr>
<tr>
<td>Standard Battery</td>
<td>LED: 11 hours*</td>
</tr>
<tr>
<td></td>
<td>Bulb: 2.5 hours*</td>
</tr>
<tr>
<td>SmartPack</td>
<td>LED: 17 hours*</td>
</tr>
<tr>
<td></td>
<td>Bulb: 4.25 hours*</td>
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</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 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

Part Numbers 2508-P-7005 Cryomatic Stand (Trolley)
2509-P-8015 Sterilization Box (not included with pencil)
Surgical Loupes
The brand choice for Dental, Surgical and Veterinary Professionals

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

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

SuperVu Galilean system

Delivering 2.0x and 2.5x magnification.

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

SuperVu 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.

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SuperVu Galilean system Part Numbers

<table>
<thead>
<tr>
<th>Magnification</th>
<th>Part Number</th>
<th>Magnification Details</th>
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<tbody>
<tr>
<td>2.0x</td>
<td>2112-P-1002</td>
<td>SuperVu 2.0x @ 34cm working distance</td>
</tr>
<tr>
<td>2112-P-1003</td>
<td>SuperVu 2.0x @ 46cm working distance</td>
<td></td>
</tr>
<tr>
<td>2.5x</td>
<td>2112-P-1010</td>
<td>SuperVu 2.5x @ 34cm working distance</td>
</tr>
<tr>
<td>2112-P-1011</td>
<td>SuperVu 2.5x @ 42cm working distance</td>
<td></td>
</tr>
<tr>
<td>2112-P-1012</td>
<td>SuperVu 2.5x @ 46cm working distance</td>
<td></td>
</tr>
<tr>
<td>2112-P-1013</td>
<td>SuperVu 2.5x @ 50cm working distance</td>
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SuperVu Hi-Res Galilean system Part Numbers

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<td>2112-P-1050</td>
<td>SuperVu Hi Res 3.0x @ 34cm working distance</td>
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<td>SuperVu Hi Res 3.0x @ 46cm working distance</td>
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<tr>
<td>2112-P-1053</td>
<td>SuperVu Hi Res 3.0x @ 50cm working distance</td>
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SuperVu accessories

<table>
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<tr>
<th>Part Number</th>
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<td>2112-P-8049</td>
<td>Protective Caps</td>
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<tr>
<td>2112-P-8057</td>
<td>+1D Near distance Caps</td>
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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.

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.

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.

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.

![K-L.E.D. with single charger and bag]

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

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

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

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.
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.
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.
- **Silt** - Used primarily to determine retinal elevations and depressions but may also be used to assess anterior chamber depth.
- **Glaucoma** - Projects a graticule onto the retina to assess the optic cup/disc ratio as an aid to glaucoma diagnosis.
- **Fixation Cross** - Projects a graticule onto the retina for assessment of the degree and direction of eccentric fixation.
- **Semi Circle** - Provides a combination of depth perception and field of view.
- **Red Free** - The red free filter is used to examine blood vessels in fine detail. By filtering out the red light, blood vessels are silhouetted black against a dark green background.
- **Cobalt Blue** - Used in conjunction with fluorescein dye for the detection and examination of corneal scars and abrasions.
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.

<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 Xenon</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.

Positive action maywheel and comprehensive lens range

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

Xenon illumination

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

Swing over filter

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

Brow rest

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

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>
</tr>
</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>1011-P-7106</td>
<td>Pack of 2 Professional Ophthalmoscope Bulbs 2.8V Xenon</td>
</tr>
<tr>
<td>1011-P-7114</td>
<td>Pack of 2 Professional Ophthalmoscope Bulbs 3.6V Xenon</td>
</tr>
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</table>

Part Numbers

<table>
<thead>
<tr>
<th>Part Numbers</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<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.

Near Point Cards for Retinoscopy

Part Number 1321-P-7021

Rubber Handle Sleeve

Part Number EP29-05365

Professional/Vista Spot Retinoscope bulb

Part Numbers 1302-P-1011 Professional Streak Retinoscope 3.6V 1302-P-1009 Professional Spot Retinoscope 3.6V 1302-P-1010 Professional Streak Retinoscope 2.8V 1302-P-1008 Professional Spot Retinoscope 2.8V

Accessories


Vista Retinoscope Bulbs

Part Numbers 1013-P-7009 Pack of 2 Semi Reflector or Full Aperture Streak Bulbs 3.6V 1013-P-7007 Pack of 2 Semi Reflector or Full Aperture Spot Bulbs 3.6V 1013-P-7008 Pack of 2 Semi Reflector or Full Aperture Streak Bulbs 2.8V 1013-P-7006 Pack of 2 Semi Reflector or Full Aperture Spot Bulbs 2.8V

Professional/Vista Streak Retinoscope bulb

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

Keeler 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>Specialist Ophthalmoscope/Retinoscope Sets</th>
</tr>
</thead>
<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>
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</table>

<table>
<thead>
<tr>
<th>Part Numbers</th>
<th>Professional Ophthalmoscope/Retinoscope sets</th>
</tr>
</thead>
<tbody>
<tr>
<td>1427-P-1059</td>
<td>Professional Ophth. &amp; Streak Ret. Set 3.6v Lithium Battery</td>
</tr>
<tr>
<td>1427-P-1061</td>
<td>Professional Ophth. &amp; Spot Ret. Set 3.6v Lithium Battery</td>
</tr>
<tr>
<td>1427-P-1058</td>
<td>Professional Ophth. &amp; Streak Ret. Set 2.8v Dry Cell Battery</td>
</tr>
<tr>
<td>1427-P-1060</td>
<td>Professional Ophth. &amp; 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>Wall Units</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. Over 2 hours of continuous use

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

Fast charge in 2 hours

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

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-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. Provides over 2 hours of continuous use

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

Fast charge in 2 hours

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

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>
Keeler Pulsair intelliPuff®
Our most comfortable and intelligent Non Contact Tonometer ever

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

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

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

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

Time on target system – easier to use
Algorithm to ensure best readings – greater accuracy
Sounds to inform of the status of data gathered – greater confidence
Lighter puff – soft and gentle for your patients

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

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

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

Cost effective – no sterile consumables to purchase, and printing is optional, so your ownership costs are insignificant.
More information, more control
intelliPuff® displays the ‘rolling average’ of your readings – the more data you have the better the result delivered. Outlying readings are automatically excluded by our algorithms. User control allows you to select your preferred user options, printing, sound notifications, display characteristics. intelliPuff® will self check the system and tell you all is well, confidence inspired.

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

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

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

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

<table>
<thead>
<tr>
<th>Part Numbers</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2414-P-2001</td>
<td>intelliPuff unit</td>
</tr>
<tr>
<td>2208-L-7008</td>
<td>Printer paper roll</td>
</tr>
<tr>
<td>EP79-43563</td>
<td>12V Car Socket Power Adapter</td>
</tr>
</tbody>
</table>
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).

<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>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>
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, a versatile and powerful retinal imaging system.

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

Tower illumination systems, featuring up to 20º 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 13º convergent optical system
- Optional fibre optic external illumination system
- Rheostat base

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

**SL-40H**

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

**Part Number** 3009-P-1002  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 8.5º converging optics
- Optional beam splitter for imaging upgrade
- Optional fibre optic external illumination system
- Rheostat base
- Integrated yellow barrier filter for fluorescein examination

**Part Number** 3009-P-1002  SSL-33 Zoom Slit Lamp (x6 to x33 continuous)
Zeiss type

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

SL-40Z

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

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

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

Tables for Slit Lamps

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

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

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

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

Part Numbers

<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>

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

Pro-Chart Chart Projector

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

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

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

Finesse Single Sided Test Type

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

Internally illuminated with four upper Snellen panels and four lower panels.
- Spot light
- Duochrome
- Friend
- Worth 4 Dot

**Part Numbers**

<table>
<thead>
<tr>
<th>Direct Test Types</th>
<th>Indirect Test Types</th>
<th>Accessories</th>
</tr>
</thead>
<tbody>
<tr>
<td>2204-P-2402</td>
<td>Four Sided Test Type Manual</td>
<td>2204-P-2365</td>
</tr>
<tr>
<td>2204-P-2373</td>
<td>Four Sided Test Type Infra Red Remote Control</td>
<td>2204-P-2373</td>
</tr>
</tbody>
</table>

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

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

**Part Numbers**

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

We offer a wide range of direct and indirect Snellen panels
Trial Frames

New Oculus Universal

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

<table>
<thead>
<tr>
<th>Part Numbers</th>
<th>Features</th>
<th>New Oculus Universal</th>
<th>Oculus Standard</th>
<th>Oculus Adult 1/2 Eye</th>
<th>Oculus Children 1/2 Eye</th>
<th>Simplex Frame</th>
</tr>
</thead>
<tbody>
<tr>
<td>2207-P-1173</td>
<td>Pair of lenses</td>
<td>5</td>
<td>5</td>
<td>3</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Adjustable bridge</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>Bridge material</td>
<td>Rubber</td>
<td>Rubber</td>
<td>Plastic</td>
<td>Plastic</td>
<td>Plastic</td>
</tr>
<tr>
<td></td>
<td>Lens rotation control</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>Adjustable PD</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>Adjustable side length</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>Adjustable side angle</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>Vertex measurement</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>Colour</td>
<td>Grey</td>
<td>Black</td>
<td>Grey</td>
<td>Grey</td>
<td>Grey</td>
</tr>
<tr>
<td></td>
<td>Frame Material</td>
<td>Plastic</td>
<td>Plastic</td>
<td>Plastic</td>
<td>Plastic</td>
<td>Plastic/Metal</td>
</tr>
</tbody>
</table>

New Children’s Trial Frame

New UBS 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
Trial Lens Sets

New Trial Lens Set for Children’s Trial Frame

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

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

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

Premium Trial Lens Sets

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

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

Part Numbers
- 2201-P-1228 232 Reduced aperture plastic lenses in wooden case
- 2201-P-1236 232 Reduced aperture metal lenses in wooden case
- 2201-P-1244 232 Full aperture lenses in wooden case
Trial Lens Sets in vinyl brief case

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

<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

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2206-L-7125</td>
<td>Recording Charts for City University Colour Vision Test</td>
</tr>
</tbody>
</table>

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 (pseudoisochromatic plates).

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

<table>
<thead>
<tr>
<th>Part Numbers</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2206-P-1008</td>
<td>38 Plate Ishihara Colour Test</td>
</tr>
<tr>
<td>2206-P-1016</td>
<td>24 Plate Ishihara Colour Test</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Part Numbers</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2205-P-1110</td>
<td>Mallett Near Vision Unit 90/180°</td>
</tr>
<tr>
<td>2205-P-1137</td>
<td>Mallett Near Vision Unit 45/135°</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2301-L-1020</td>
<td>RAF Binocular Gauge</td>
</tr>
</tbody>
</table>
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 its 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
Local Distributor:

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