Keeler

Innovator, market leader, with a focus on the future

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.

UK manufacturer

Yes, we still manufacture and assemble our instruments in the UK. Keeler instruments combine 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 the following equipment is 3 years.
- Direct Ophthalmoscopes
- Retinoscopes
- Indirect Ophthalmoscopes
with the exception of batteries, bulbs and power supplies.

All other products carry a one year parts and labor warranty. Warranty covers repair or replacement of equipment that malfunctions due to faulty materials or workmanship.

Service

Keeler Technical Services and our authorized distributor network will carry out repairs and routine maintenance to your equipment.

We offer a Service Exchange scheme covering most direct and indirect ophthalmoscopes. This is a quick and economic way of keeping your instruments in top working order.

Quotations can be supplied upon request.

www.keelerusa.com
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Direct Ophthalmoscopes

A combination of optical perfection, superb ergonomics and versatile features make Keeler direct ophthalmoscopes the ideal choice. Whatever your requirements 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.

Lithium and NiCad handles

Keeler hand holds are supplied on a lithium slimline, lightweight robust handle or the traditional NiCad 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 metal chassis protect the carefully aligned optics and allow Keeler ophthalmoscopes to withstand the rigors of everyday use for years to come.

Controllable light for bright, clear images

The bright white Halogen and 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 while minimizing shadows and providing clearer retinal visualization.

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

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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 diopter 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.

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Specialist Ophthalmoscope
The World’s finest

We recognize that illumination is of fundamental importance to good diagnosis. That’s why we have selected Xenon illumination. This brighter and whiter long lasting light will meet any diagnostic challenge! With Xenon you have the power to diagnose even through a difficult eye. And because it is longer lasting that means fewer bulb changes giving greater peace of mind.

Expanded diopter 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.

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

Pupillometer gauge
The pupillometer comparison disc allows quick and easy estimation of pupil size.
Professional Combi Retinoscope

A genuine bimodal retinoscope

Optimized 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.

Neutralization check (Patented)
This is the only Retinoscope allowing rapid confirmation of neutralization. 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 neutralization 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 optimize brightness or resolution of the retinal reflex.

Unique spectacle bar
An interchangeable soft pad is available for spectacle wearers.

<table>
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<tr>
<th>Part Numbers</th>
<th>Description</th>
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<tbody>
<tr>
<td>1322-P-1050</td>
<td>3.6v Professional Streak Retinoscope on NiCad Handle</td>
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<tr>
<td>1322-P-1060</td>
<td>3.6v Professional Streak Retinoscope on Lithium Handle</td>
</tr>
<tr>
<td>1302-P-5005</td>
<td>3.6v Professional Ophthalmoscope head only</td>
</tr>
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</table>

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.

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

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

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<tr>
<th>Part Number</th>
<th>Description</th>
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<tbody>
<tr>
<td>1112-P-1009</td>
<td>2.8v Pocket Ophthalmoscope on AA battery handle</td>
</tr>
</tbody>
</table>
Direct Ophthalmoscope Power Supplies and Handles

Lithium-ion Double Charger

The compact charger takes two handles and will fit neatly into your immediate testing environment, allowing easy access to your hand held instruments. The charger 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.

Provides over 2 hours of continuous use
2 hour continuous use is ideal for long examinations especially while first learning with your instrument.

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

Part Number 1941-P-1368 Lithium-ion Double Charger

Lithium-ion Mini Charger

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

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

Versatile
Instruments can still be used while the battery is charging.

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

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

Part Number 1941-P-1341 Mini Lithium-ion Charger

Handles and Lithium Adaptor

Keeler's traditional NiCad and Lithium handles will charge in most standard charging wells. The small and sleek lithium handle adaptor converts your Keeler Lithium handle to charge in most standard refraction stands.

Part Numbers 1911-P-1084 3.6v Handle with NiCad Rechargeable Battery
1911-P-1201 3.6v Slimline Handle with Lithium-ion Battery
3301-P-7410 Lithium Handle Stand Adaptor

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Monocular Indirect Ophthalmoscope

Wide Angle Twin Mag NP

Ophthalmoscopy just got easier!

The Keeler Wide Angle Twin Mag has a 10x larger field of view and is easier to use than a direct ophthalmoscope. The glass optical system provides non-polarized light giving you two exceptional views and magnifications in a lightweight, easy to use instrument. You will immediately see the difference!

Non-polarized light
The non-polarized Xenon illumination provides whiter, brighter light that does not compromise your diagnostic information so it minimizes your chance of missing a tumor, any critical vascular changes and early macular degeneration.

Lightweight and comfortable to hold
It has been designed to fit comfortably into one hand with all easy to operate controls conveniently located at your fingertips.

Small pupil capabilities
The Wide Angle Twin Mag provides you with the ability to view easily and quickly through undilated pupils.

No field loss with spectacles
The unique extendable eyepiece allows you to view the retina with or without glasses with the same field of view.

Glaucoma diagnosis and monitoring
The Wide Angle Twin Mag provides easy assessment of cup to disc ratio as an aid to glaucoma diagnosis and monitoring.

Corneal examination
Combined with the cobalt blue filter, this unique lens (optional) allows examination of corneal pathology and contact lens fitting.

Multiple aperture selections
The large range of built-in apertures provides easy changes from Macular (small pupil), Intermediate, Large, Slit, Glaucoma and Semi-Circle.

Compatible with Keeler NiCad or Lithium handles and chargers
The Wide Angle can be connected to your existing NiCad or Lithium handle.

Filters
The red free and cobalt blue filters can be used with the large apertures.

Twin Mag delivers 2 reflex and shadow free images of the retina

Mag 1
The large 25' field of view is ideal for general examination and provides 15X retinal magnification and a 10X larger view of the retina than with a standard ophthalmoscope.

Mag 2
The 17.5' field of view is ideal for increased disc and macular detail and provides 22.5X retinal magnification.

Part Numbers

<table>
<thead>
<tr>
<th>1130-P-5004</th>
<th>Wide Angle Twin Mag Ophthalmoscope head only</th>
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<tbody>
<tr>
<td>1130-P-7001</td>
<td>Patient Brow Rest</td>
</tr>
<tr>
<td>1130-P-7000</td>
<td>Corneal Lens</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.

Go Wireless gives you the freedom to move from room to room without any constraints - No more wires, cords, tangles, just a lightweight, well balanced, comfortable indirect ophthalmoscope.

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.

with Vantage Plus and All Pupil II – the market leading indirect ophthalmoscopes!
Wired or Wireless Keeler leads the way

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.

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 maximize comfort and balance. These features will be particularly appreciated during long examinations.

Easy fit push in/pull out bulbs
Keeler indirects have been designed to ensure optimal performance. Bulbs are easily accessible and quick to change. During surgical procedures, if your bulb should blow, our quick fit design ensures you won’t be without it for very long.

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 required.

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

Apertures and filters

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

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

Large Aperture - Ideal when examining fully dilated pupils.

Intermediate - Ideal for children and sensitive patients.

Small Aperture - Ideal for undilated pupils.

Diffuser
Vantage Plus
Simplicity meets intelligence

Quality and efficiency
The redesigned optics combined with the new 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 and 20% smaller
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.

Unique - Go Wireless patented technology
Total freedom - our patented wireless technology leaves you free to move around without any wire or cord constraints. This is a great "wow" feature that doctors love.

Double the life of your battery
A great benefit if you are examining all day - you can now be confident that you will always have power.

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

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.
**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.

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

View through Vantage Plus with IOS Optics.

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

View through NON IOS Optic System.

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

**New high contrast optics**

The new compact and high contrast viewing optics with multi-layer coatings and Xenon illumination gives you brilliantly crisp, glare free, superior views of the retina every time you use your Vantage Plus.
Convert your Vantage to 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.

The new teaching mirror just slides on and off with ease

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

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 – a great slimline case to go with a great product.

Vantage Plus Apertures and Filters

![Apertures and Filters](image)

P D Range: 52 - 76mm

<table>
<thead>
<tr>
<th>Part Numbers</th>
<th>Description</th>
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<tr>
<td>1204-P-3057</td>
<td>Wireless Vantage Plus with (2) Lithium Batteries and Charging Station</td>
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<td>1204-P-3052</td>
<td>Wireless Vantage Plus without power and Lithium-ion battery</td>
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<tr>
<td>1204-P-3051</td>
<td>Wired Vantage Plus without power</td>
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<tr>
<td>1202-P-7000</td>
<td>Video Vantage PPV System – Add Vantage (I) indirect</td>
</tr>
<tr>
<td>1945-P-1001</td>
<td>SmartPack for Wired Vantage or Vantage Plus</td>
</tr>
<tr>
<td>1919-P-5231</td>
<td>Lithium Battery Pack for Wired Vantage Plus</td>
</tr>
<tr>
<td>1941-P-5385</td>
<td>Lithium Battery Charger for Wired Vantage Plus</td>
</tr>
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www.keelerusa.com
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
(Patent pending)

That’s right no more wires and cords! The freedom to move from room to room without any constraints. Keeler is delighted to introduce this great “wow” feature to the number one selling indirect ophthalmoscope.

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.

All Pupil II Apertures and Filters

P D Range: 47 - 75mm

<table>
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<th>Part Numbers</th>
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<td>1204-P-4000</td>
<td>Wireless All Pupil II with (2) Lithium Batteries &amp; Docking Station</td>
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<td>1202-P-6237</td>
<td>Wireless All Pupil II without power and Lithium-Ion battery</td>
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<tr>
<td>1204-P-3100</td>
<td>Wired All Pupil II without power</td>
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<tr>
<td>1945-P-1001</td>
<td>SmartPack for Wired All Pupil II</td>
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<tr>
<td>1945-P-1000</td>
<td>WallPack for Wired All Pupil II</td>
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</table>
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 – unbelievable – no more bulbs
That’s right... No more bulbs! Just a long lasting, white homogeneous light patch.

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.

Keeler Sport Frame
Spectra Plus comes on the new Keeler Sport Frame which speeds up your examination with our unique close fitting temples. These temples form around your head for security and easy on and off. The Keeler Sport Frame is not only attractive but provides maximum comfort and balance.

Sky Blue  Blue  Red  Black
Spectra Plus systems are supplied with a lithium battery, charger, indirect and choice of Keeler Sport frame.

Spectra Plus Apertures and Filters

P D Range: 48 - 76mm

Accessories are ordered separately - see pages 33 and 34

<table>
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<tr>
<th>Part Numbers</th>
<th>Spectra with standard temples (135mm)</th>
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<tbody>
<tr>
<td>1205-P-1000</td>
<td>Blue</td>
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<tr>
<td>1205-P-1001</td>
<td>Red</td>
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<td>1205-P-1002</td>
<td>Black</td>
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<tr>
<td>1205-P-1003</td>
<td>Sky Blue</td>
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<table>
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<tr>
<th>Part Numbers</th>
<th>Spectra with long temples (150mm)</th>
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<tbody>
<tr>
<td>1205-P-1004</td>
<td>Blue</td>
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<tr>
<td>1205-P-1005</td>
<td>Red</td>
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<tr>
<td>1205-P-1006</td>
<td>Black</td>
</tr>
<tr>
<td>1205-P-1007</td>
<td>Sky Blue</td>
</tr>
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</table>

Wireless Indirect Power Supplies

Lithium-ion Battery

- Lightweight
- 120 minutes of continuous use
- Usable charge in 5 minutes

Lithium-ion Docking Station Charger

Docking Station can be wall or desk mounted with location for spare battery, which means you will always have a back-up.

- Complete Fast charge in 2 hours
- Usable charge in 5 minutes

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<tr>
<th>Part Numbers</th>
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<tbody>
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<td>1919-P-1013</td>
<td>Spare Lithium Battery</td>
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<tr>
<td>1941-P-1384</td>
<td>Charging Station</td>
</tr>
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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. All you need now is SmartPack.

Fast charge and long life
Nickel Metal Hydride technology provides a genuine long life of 2 hours and a fast charge within 2 hours. Instruments can be used when battery is charging. LEDs indicate when battery life is low, charging or fully charged.

**Part Number** 1945-P-1001

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 placed on the convenient micro-switch station it comes with.

**Part Number** 1945-P-1000

Lithium-ion Power Pack

The lithium Power Pack was designed to optimize your power requirements in a lightweight system. Made exclusively for use with Vantage Plus and Spectra Plus the battery is supplied with a small fast charge system.

Fast charge and long life
- Lightweight 6 ounces (171 gams)
- 2 hours of continuous use with Vantage Plus
- 4 hours of continuous use with Spectra Plus
- Fast Charge 2 hours
- Usable charge in 5 minutes

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<tr>
<th>Part Numbers</th>
<th>Description</th>
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<tbody>
<tr>
<td>1919-P-1015</td>
<td>Vantage Plus Lithium Power Pack (Cord, Battery,</td>
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<td></td>
<td>Charger, and Power Supply)</td>
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<td>1941-P-5385</td>
<td>Spectra Plus Lithium Charger and Power Supply</td>
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<tr>
<td>1919-P-5215</td>
<td>Spectra Plus Lithium Battery with Rheostat</td>
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</table>

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Tonometry

Keeler has led the field in tonometry since the introduction of the Pulsair in 1987, and has continued to do so through four generations of the product. Each generation is a milestone of technological development providing you with ever accurate and reliable diagnostic tools.

To complement the hand-held Pulsair Easyeye we offer you other solutions: convertible hand-held to a desktop product. Whatever your need, we have the answer.

Keeler Pulsair EasyEye®
Accurate and effortless non-contact tonometry

The only non-contact tonometer with seventeen years experience and clinical study makes this fourth generation development the new gold standard.

Exceptional reliability combined with the versatility of being hand-held gives you the ultimate in non-contact tonometry for all your patients.

- Clear display, showing the average of readings taken, in millimetres of mercury (mmHg).
- Displays all readings taken for the measured eye.
- This button clears the memory ready for the other eye.
- This illuminates when a pressure exceeds 30mmHg and automatically increases the puff intensity accordingly.
- Viewing eyepiece – allows fast and simple alignment for rapid measurement - please see alignment process below.
- Quickpulse – reduces the sensitivity for dry or damaged corneas.
- Use the demo button to puff your patient’s hand to prepare them for measurement.

- Look through the eyepiece and you will see the patient's eye.
- Move the Pulsair closer.
- As you get closer you see two green dots.
- Continue to move closer.
- Next you will see this. Slowly move closer.
- When you see the bow tie the Pulsair will fire.
- If you see this filament you are too close.

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Accuracy
Extensive clinical trials and over seventeen years of experience in air tonometry has resulted in the EasyEye® rivalling Goldmann as the gold standard; "...as accurate as Goldmann tonometry in the population studied and has distinct advantages".*

Portability
The EasyEye® is truly portable; simply add the optional rechargeable battery and carrying case.

Space saving
Wall mount or Slit Lamp mount your EasyEye® to save valuable workspace.

Easy to use
The intuitive controls, a comfortable handpiece with an automated firing, averaging and printing system - what more could you need? Turn it on, take the handpiece and start using it.

Non-contact
Non-contact tonometry – no anaesthetic or fluorescein, no costly consumables and virtually no possibility of any cross infection of diseases.

All patients
Whether your patients are post operative or supine, disabled and unable to reach a chinrest, or simply young children in the arms of a parent, the EasyEye® is effective, accurate and patient friendly for all.

Speed
The EasyEye® has clinically proven speed; "...the Pulsair can provide an accurate measurement of IOP within 20 seconds per eye".*

Accuracy and calibration
Checking of calibration is easy; should your EasyEye® require maintenance simply send it to an authorized Keeler distributor, or to Keeler.

Part Numbers 2414-P-2000 Keeler Pulsair EasyEye® Tonometer complete

<table>
<thead>
<tr>
<th>Accessories</th>
<th>2414-P-7003</th>
<th>EasyEye Carrying Case</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2414-P-7006</td>
<td>EasyEye Haag type Slit Lamp Adaptor</td>
</tr>
<tr>
<td></td>
<td>2414-P-7005</td>
<td>EasyEye Chinrest Base System</td>
</tr>
<tr>
<td></td>
<td>2414-P-7000</td>
<td>EasyEye Rechargeable Battery</td>
</tr>
</tbody>
</table>

*Extracted from Clinical Comparisons of the Keeler Pulsair with Goldmann applanation tonometry by Parker, Herretage & Sarkies, British Journal of Ophthalmology, November 2001 Vol 85, No. 11 p 1303-1304
Sight and Color Vision Testing

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.

<table>
<thead>
<tr>
<th>Part Numbers</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2204-P-1004</td>
<td>Sheridan Gardiner Test without Orthoptic booklets</td>
</tr>
<tr>
<td>2204-P-1063</td>
<td>Sheridan Gardiner Test with Orthoptic booklets</td>
</tr>
</tbody>
</table>

Sonksen Silver Acuity System

Designed for young and disabled children but equally suitable for older children and adults.

Optional 6/60 to 6/24 booklet available for patients who fail standard screening test and require further investigation. Flipover linear chart.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2204-P-1207</td>
<td>Sonksen Test Complete</td>
</tr>
</tbody>
</table>

3rd Edition City University Color Vision Test

This test displays normal protan, deutan and tritan colors, 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.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2206-L-1014</td>
<td>City University Color Vision Test</td>
</tr>
</tbody>
</table>

38 & 24 Plate Ishihara Color Vision Test

Ideal for commercial/industrial color screening.

Tests for protan and deutan defects. Patients must identify numbers or patterns formed in a matrix of small colored dots varying in color and intensity.

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 Color Test</td>
</tr>
<tr>
<td>2206-P-1016</td>
<td>24 Plate Ishihara Color Test</td>
</tr>
</tbody>
</table>
Halberg Trial Lens Clips

Halberg Trial Clips have become a required addition to every refraction stand. These useful and inexpensive clips may be fitted over your patient's spectacle frame. Each cell has space for three lenses and the rubber coating on the clip protects the spectacle lenses.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>2207-P-1026</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Halberg Trial Clips with Case</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>2301-P-1022</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Maddox Wing Test</td>
</tr>
</tbody>
</table>

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 diopters.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>2203-P-1002</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Keeler Horizontal/Vertical Prism Bar</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>2202-P-1019</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Keeler Retinoscopy Rack</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Part Numbers</th>
<th>2215-P-1034 2215-P-7050</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Amsler Manual Amsler Recording Charts</td>
</tr>
</tbody>
</table>
Surgical Loupes
Superior loupes and lights for life

Laser aligned optics for magnification of superb optical quality; a lightweight aluminium assembly and precise pupil alignment system make Keeler Loupes the perfect choice for thousands of surgical professionals.

SuperVu SL Galilean System

Delivering 2.5x magnification.

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

Ideal for ocular plastic, and retinal procedures.

Order frame separately.
Keeler SuperVu SL magnification systems are supplied in a soft carrying case and include protective caps, autoclavable flip lever and cleaning cloth.

<table>
<thead>
<tr>
<th>Part Numbers</th>
<th>2.5x SuperVu SL Magnification Systems</th>
</tr>
</thead>
<tbody>
<tr>
<td>2112-P-1006</td>
<td>13” (34cm) working distance, 3.1” (8.1cm) field of view</td>
</tr>
<tr>
<td>2112-P-1007</td>
<td>16” (42cm) working distance, 3.9” (10.0cm) field of view</td>
</tr>
<tr>
<td>2112-P-1008</td>
<td>18” (46cm) working distance, 4.2” (10.9cm) field of view</td>
</tr>
<tr>
<td>2112-P-1009</td>
<td>20” (50cm) working distance, 4.6” (11.8cm) field of view</td>
</tr>
</tbody>
</table>
SuperVu SL Hi-Res Galilean System

Delivering 3.0x magnification.

SuperVu Hi-Resolution loupe provides greater definition than a standard Galilean with 15% increase field of view. The Hi-Res five element system provides a true 3x magnification in a lightweight system.

<table>
<thead>
<tr>
<th>Part Numbers</th>
<th>SuperVu SL Hi-Res Magnification Systems</th>
</tr>
</thead>
<tbody>
<tr>
<td>2112-P-1050</td>
<td>13” (34cm) working distance, 3.0” (8cm) field of view</td>
</tr>
<tr>
<td>2112-P-1051</td>
<td>16” (42cm) working distance, 3.5” (9cm) field of view</td>
</tr>
<tr>
<td>2112-P-1052</td>
<td>18” (46cm) working distance, 4.3” (11cm) field of view</td>
</tr>
<tr>
<td>2112-P-1053</td>
<td>20” (50cm) working distance, 4.7” (12cm) field of view</td>
</tr>
</tbody>
</table>

Keeler Sport Frames

All Keeler loupes are available on the new Keeler Sport frame.

Stylish, comfortable and attractive, the new Keeler Sport frame is available in a choice of bright colors as shown. The Keeler Sport frame can be worn over your own glasses, or your prescription can be incorporated into the supplied holder.

<table>
<thead>
<tr>
<th>Part Numbers</th>
<th>Keeler Sport Frame Standard Temples 135mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>2199-P-1500</td>
<td>Black</td>
</tr>
<tr>
<td>2199-P-1519</td>
<td>Blue</td>
</tr>
<tr>
<td>2199-P-1527</td>
<td>Red</td>
</tr>
<tr>
<td>2199-P-1535</td>
<td>Sky Blue</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Part Numbers</th>
<th>Keeler Sport Frame Long Temples 150mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>2199-P-1543</td>
<td>Black Long Frame (150mm)</td>
</tr>
<tr>
<td>2199-P-1551</td>
<td>Blue Long Frame (150mm)</td>
</tr>
<tr>
<td>2199-P-1578</td>
<td>Red Long Frame (150mm)</td>
</tr>
<tr>
<td>2199-P-1586</td>
<td>Sky Blue Long Frame (150mm)</td>
</tr>
</tbody>
</table>
SuperVu XL Prismatic 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 color rendition is ideal for intricate surgical applications. The XL's precision lenses are treated with an anti-reflective coating to produce a superior image.

Ideal for surgeons who require higher magnification.

Order frame separately.
Keeler SuperVu XL magnification systems are supplied in a soft carrying case and include protective caps, autoclavable flip lever and cleaning cloth.

<table>
<thead>
<tr>
<th>Part Numbers*</th>
<th>3.5x SuperVu XL Magnification Systems</th>
</tr>
</thead>
<tbody>
<tr>
<td>2113-P-2004</td>
<td>13&quot; (34cm) working distance, 2.1&quot; (5.5cm) field of view</td>
</tr>
<tr>
<td>2113-P-2005</td>
<td>16&quot; (42cm) working distance, 2.7&quot; (7.1cm) field of view</td>
</tr>
<tr>
<td>2113-P-2006</td>
<td>18&quot; (46cm) working distance, 3.1&quot; (7.9cm) field of view</td>
</tr>
<tr>
<td>2113-P-2007</td>
<td>20&quot; (50cm) working distance, 3.4&quot; (8.7cm) field of view</td>
</tr>
<tr>
<td>2113-P-2008</td>
<td>13&quot; (34cm) working distance, 1.8&quot; (4.6cm) field of view</td>
</tr>
<tr>
<td>2113-P-2009</td>
<td>16&quot; (42cm) working distance, 2.4&quot; (6.1cm) field of view</td>
</tr>
<tr>
<td>2113-P-2010</td>
<td>18&quot; (46cm) working distance, 2.7&quot; (6.9cm) field of view</td>
</tr>
<tr>
<td>2113-P-2011</td>
<td>20&quot; (50cm) working distance, 3.0&quot; (7.7cm) field of view</td>
</tr>
<tr>
<td>2113-P-2012</td>
<td>13&quot; (34cm) working distance, 1.3&quot; (3.5cm) field of view</td>
</tr>
<tr>
<td>2113-P-2013</td>
<td>16&quot; (42cm) working distance, 1.8&quot; (4.7cm) field of view</td>
</tr>
<tr>
<td>2113-P-2014</td>
<td>18&quot; (46cm) working distance, 2.1&quot; (5.3cm) field of view</td>
</tr>
<tr>
<td>2113-P-2015</td>
<td>20&quot; (50cm) working distance, 2.3&quot; (6.0cm) field of view</td>
</tr>
</tbody>
</table>

For shadow free lighting and headband please see overleaf.
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 coaxially on the loupe bar and is powered by a lithium battery pack giving 4 hours continuous use. The K-L.E.D. comes with two battery packs and a charging unit that can hold and charge both packs simultaneously, as well as being a convenient container to keep loupes when not in use. The K-L.E.D. can be retrofitted to all Keeler loupes.

Part Numbers

<table>
<thead>
<tr>
<th>Part Numbers</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2004-P-1000</td>
<td>Keeler fit K-L.E.D. head light system c/w 2 batteries</td>
</tr>
<tr>
<td>2004-P-1003</td>
<td>Universal fit K-L.E.D. head light system c/w 2 batteries</td>
</tr>
</tbody>
</table>

Designed for comfort

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

Keeler, the first name in Cryo Ophthalmic Surgery has been supplying the Ophthalmic Surgeon with high performance, reliable Cryo Systems since 1966.

Changes in technology and the surgeons' requirements have allowed us to improve and expand our range of Cryo Ophthalmic Instruments.

Keeler Cryomatic
The new standard in ophthalmic cryo-surgery

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 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 Accessory

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

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Keeler CTU Cryo System
Portability and performance

CTU is a portable and reliable system for surgeons who need a flexible, portable system with the state-of-the-art features of a more expensive unit. The CTU attaches easily to an "E" cylinder and has an optional tip-proof mobile stand and carrying case.

CTU and Probe in Carrying Case
CTU and cylinder on mobile stand

<table>
<thead>
<tr>
<th>Part Numbers</th>
<th>CTU System and Accessories</th>
</tr>
</thead>
<tbody>
<tr>
<td>2502-L-8110</td>
<td>N₂₀ Console with footswitch*</td>
</tr>
<tr>
<td>2502-L-8111</td>
<td>CO₂ Console with footswitch*</td>
</tr>
<tr>
<td>2502-K-8048</td>
<td>&quot;E&quot; size N₂₀ Medical Grade Cylinder</td>
</tr>
<tr>
<td>2508-P-8021</td>
<td>Sterilizing Case (holds 1 probe)</td>
</tr>
</tbody>
</table>

*CTU probes (pencils), cryogen (gas cylinder), and case are ordered separately.

www.keelerusa.com
Keeler CTU Series 22 Probes

<table>
<thead>
<tr>
<th>Part Numbers</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2502-P-2304</td>
<td>Intra Vitreal End Freeze 0.89</td>
</tr>
<tr>
<td>2502-P-2339</td>
<td>Curved Cataract End Freeze 1.5mm</td>
</tr>
<tr>
<td>2502-P-2347</td>
<td>Straight Cataract End Freeze 1.5mm</td>
</tr>
<tr>
<td>2502-P-2355</td>
<td>Standard Retinal 2.5mm</td>
</tr>
<tr>
<td>2502-P-2363</td>
<td>Right Angle Retinal 2.5mm</td>
</tr>
<tr>
<td>2502-P-2371</td>
<td>Glaucoma 3.0mm</td>
</tr>
<tr>
<td>2502-P-2398</td>
<td>Bonnet Retinal 2.5mm</td>
</tr>
<tr>
<td>2502-P-2400</td>
<td>Extended Side Freeze Retinal 2.5mm</td>
</tr>
<tr>
<td>2502-P-2419</td>
<td>4.0mm x 10mm Collins Trichiasis</td>
</tr>
</tbody>
</table>

Keeler Surgical Room Supplies

Keeler Chan Wristrest

The Chan Wristrest has become an important standard in busy operating rooms. The unique height adjustable horseshoe bar encircles the patient’s head and supports arms and wrists during ophthalmic surgery. The horseshoe bar facilitates easy draping especially when fluids are collected. The bar also flips up and out of the way for easy patient transfer on and off the table. The metal plate fits under the mattress of the O.R. table. Adapts to all O.R. tables and stretchers.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1899-K-1163</td>
<td>Chain Wristrest with Pillow</td>
</tr>
</tbody>
</table>
Surgical Foam Headrest

The Surgical Foam Headrest automatically secures the patient’s head while making the patient as comfortable as possible. Several center inserts can be removed to adjust for any head size from pediatric to adult. The pillow can be autoclaved when necessary. From surgical suite to the recovery room this unique pillow will ensure correct patient positioning.

Part Number 1899-K-1219 Surgical Foam Headrest

Disposable Drape Support

The Nevyas Drape Support is the simple and inexpensive way to establish a zone of comfort for your patients during ophthalmic surgery which requires draping over the nose and mouth. Packaged in sets of 24, minimum order 4 packages.

Part Number 1899-K-1243 Nevyas Drape Supports (Pkg of 24 – Minimum order of 4 Pkgs)

Machemer Stool

This stool is unquestionably the finest operating stool available today. This stool was designed especially for the ophthalmic surgeon who must remain absolutely steady for long periods of time. A poor stool can unexpectedly shift resulting in unanticipated hand motion. The Machemer Stool has a solid base of five sturdy castors. A ‘foot bar’ allows the surgeon to adjust the height from 22” to 33” and lock out the seat swivel. The seat is constructed of one continuous piece of heavy sculptured foam and covered in conductive fabric without seams. This unique design reduces pressure on the sciatic nerve and remains comfortable through even the longest procedures.

Part Number 1899-K-1112 Machemer Stool
Accurate diagnosis depends upon a number of factors. Of these, top quality illumination ranks as one of the most important. Only excellent visualization allows you to use your diagnostic skills to the full. For this reason, we at Keeler have invested heavily in our bulb manufacturing facility at Barnsley.

All Keeler instruments use genuine Halogen and Xenon technology, yielding a brighter, whiter illumination and a longer life.

Look at the bottom of your bulb to identify if your instrument is 2.8V (Dry cell battery) or 3.6V (Rechargeable battery).

### Bulbs

#### Pocket Ophthalmoscope bulb
Part Number 1011-P-7050

#### Professional Ophthalmoscope bulb
Part Numbers 1011-P-7106 2.8V or 1011-P-7114 3.6V

#### Specialist/Vista Ophthalmoscope bulb
Part Numbers 1011-P-7042 2.8V or 1011-P-7034 3.6V

#### Professional/Vista Streak Retinoscope bulb, 35mm length
Part Numbers 1013-P-7008 2.8V Professional or 1013-P-7009 3.6V Professional Previous Model Retinoscopes/20mm length 1013-P-7002 2.8V or 1013-P-7003 3.6V

#### Professional/Vista Spot Retinoscope bulb, 35mm length
Part Numbers 1013-P-7006 2.8V or 1013-P-7007 3.6V Previous Model Retinoscopes/20mm length 1013-P-7000 2.8V or 1013-P-7001 3.6V

These bulbs are supplied in packs of two.
All Pupil and Vantage bulb
Part Number 1012-P-7003

Wide Angle Twin Mag Ophthalmoscope bulb
Part Number 1012-P-7004

Spectra Plus bulb
Part Number 1299-P-7075

Pulsair bulb for Mark 1, 2000, 3000 and EasyEye
Part Number 1024-P-7156

Fison bulb
Part Number 1012-P-7000

Vantage Plus bulb
Part Number 1012-P-5241

This bulb is supplied singularly

Indirect Ophthalmoscope Cases

Convenient Roller Case for wired or wireless models
Part Number 3412-P-5282

Spectra Plus Soft Case
Part Number 3412-P-7002

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### Indirect Ophthalmoscope Accessories

#### Indirect Teaching Mirrors

- **Vantage Plus Teaching Mirror**
  - Part Number: 1202-P-7205

- **All Pupil II Teaching Mirror**
  - Part Number: 1202-P-7117

- **Spectra Plus Teaching Mirror**
  - Part Number: 1205-P-7000

- **Pencil Type, Small and Large Depressors (pencil not shown)**
  - Part Numbers: Pencil Type 1201-P-6076, Small 1201-P-6075 / Large 1201-P-6067

- **SmartPack Battery**
  - Part Number: EP39-22079

### Direct Ophthalmoscope Accessories

- **Rubber Handle Sleeve**
  - Part Number: EP29-05365

- **Lithium Battery**
  - Part Number: EP39-18918

- **Near Point Cards for Retinoscopy**
  - Part Number: 1321-P-7005

- **NiCad Battery**
  - Part Number: 1919-P-5020

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