Why Keeler?

You want to purchase from a company that you know you can trust?
Keeler has been manufacturing precision optical instruments for almost a century. Today, the Keeler name is synonymous throughout the world with the very highest quality and most reliable optical equipment.

What sets us apart from our competitors?
Think about what you want from your instrument? What are you really buying from us? You want the very best possible view. And we know that is what we provide because our customers keep telling us that is our major attribute.

Reliability
Keeler deliver robust, reliable products to make your day run smoothly and efficiently. For extra peace of mind all instruments are covered by the Keeler warranty.

Knowledgeable Sales Staff
High levels of product knowledge and advice when you need it.

Contents
Choosing Your Ophthalmoscope ................. p3
Professional Ophthalmoscope .................. p4
Specialist Ophthalmoscope ................... p4
Professional Retinoscope ...................... p5
Pocket Ophthalmoscope ...................... p5
Finoff Transilluminator ...................... p5
Handles and Chargers ...................... p6
Wide Angle Twin Mag Ophthalmoscope .... p6-7
Choosing Your Binocular Indirect Ophthalmoscope ... p8
Vantage Plus Indirect Ophthalmoscope ........ p9
All Pupil II Indirect Ophthalmoscope ........ p10
Spectra Indirect Ophthalmoscope ........ p10
Indirect Power Supplies and Carrying Cases .... p11
Choosing Your Ophthalmoscope

The Keeler Direct Ophthalmoscope has been the choice of the ophthalmic profession for decades and continues to be. Our collimated lens system is designed to focus the light on a curved surface via the patient’s optical 3pathway. A superior ophthalmoscope is designed to focus at infinity i.e. to match the optical properties of a patient’s eye and therefore appears out of focus when viewed on paper. In other words, the out of focus image on paper will become a razor sharp image in a patient’s fundus. Likewise if the image is clear on paper, how can it be clear in the eye?

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, larger field of view, 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 metal 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 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 whilst minimising shadows and providing clearer retinal visualisation.

Apertures, Graticules and Filters

- **Wide Angle** - Illuminates the largest area of fundus for the best possible general diagnosis through a dilated pupil.
- **Intermediate** - Permits easier access through an undilated pupil and in peripheral examination. Particularly useful in paediatric examination.
- **Macular** - Designed specifically for examination of the macular region of the fundus where a larger beam would create excessive pupillary reaction or patient discomfort.
- **Slit** - Used primarily to determine retinal elevations and depressions but may also be used to assess anterior chamber depth.
- **Glaucoma** - Projects a graticule onto the retina to assess the optic cup/disc ratio as an aid to glaucoma diagnosis.
- **Fixation Cross** - Projects a graticule onto the retina for assessment of the degree and direction of eccentric fixation.
- **Semi Circle** - Provides a combination of depth perception and field of view
- **Red Free** - The red free filter is used to examine blood vessels in fine detail. By filtering out the red light, blood vessels are silhouetted black against a dark green background.
- **Cobalt Blue** - This filter is used with fluorescein dye for angiography.

www.keelerusa.com
Keeler Professional Ophthalmoscope

Total Control at Your Fingertips

The Keeler Professional Ophthalmoscope has been designed to ensure ultimate control. Lenses, graticules and filters can all be introduced at the touch of a fingertip. No need to pull away from the patient, the Professional Ophthalmoscope makes routine examination far easier.

Xenon Illumination
We recognise that illumination is of fundamental importance to good diagnosis. That’s why we have selected Xenon illumination for our ophthalmoscopes. This brighter and whiter longer lasting light will meet any diagnostic challenge! With Xenon you have the power to diagnose even through cloudy media. And because it is longer lasting, that means fewer bulb changes giving greater peace of mind.

Positive Action Maywheel
The positive action easy access maywheel not only allows you to dial up the required lenses quickly, it also allows you to know where you are without the need to pull away from the patient.

Comprehensive Lens Range
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 in +/- 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.

The Keeler Specialist
The Choice of the Ophthalmic Profession

The Keeler Specialist offers precision optics, versatile features and practical ergonomics making it the number one choice for ophthalmic practitioners.

Unequality Quality
The Specialist ophthalmoscope is perfectly balanced for precise ocular examination. The comprehensive lens range (+44D to -45D in 1D steps) ensures clear and accurate diagnosis even in the most difficult eyes. The Specialist lens range is made up of tiny individual ground glass lenses. The fine gearing of the Morton Track lens system allows you to dial up any lens quickly and easily.

Versatility
The graticule range offers a total of six diagnostic beams for comprehensive ocular examinations. In addition to a choice of three viewing beam sizes the Specialist includes a red free filter for vessel examination, a fixation cross for assessment of eccentric fixation and a slit to determine changes in retinal elevation. A snug orbital fit optimises the field of view and guarantees increased comfort for both practitioner and patient.

Pupillometer
The pupillometer comparison disc allows quick assessment of pupil size.

www.keelerusa.com
Professional Retinoscope

Streak or Spot – just a Bulb Change!

There are those that love Streak and those that love Spot. The Keeler Professional Combi offers the best of both worlds. The unique optical design provides the first truly bimodal Retinoscope with just a quick bulb change.

Double Neutralization Check

The Professional Combi is the only Retinoscope which combines the ability to switch from Spot to Streak with the facility to double check neutralisation in both modes.

Easy Access Control

The Professional Combi uses rare earth magnet technology to provide optical precision refraction. A single control is used for rotation, convergence, and divergence.

A choice of apertures to optimise brightness or resolution of the retinal reflex in 4mm or 1.7mm

The Professional Combi comes with easily interchangeable soft brow rest for spectacle wearers.

Light Output

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

Near Point Cards

Fixation cards for Dynamic Retinoscopy simply clip on and off for easy use.

Finoff Transilluminator

For use when the presence of intraocular tumors in patient with cloudy media is suspected. The Finoff transilluminator illuminates the fundus via the sclera and any tumors present in the light path will dim the normally bright red fundal reflex as seen through the pupil.

Keeler Sets

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1424-P-3010*</td>
<td>1424-P-3001*</td>
<td>1424-P-3002*</td>
<td>1424-P-3020*</td>
<td>1424-P-3030*</td>
<td>1424-P-3040*</td>
<td>1424-P-3006*</td>
<td>1424-P-3007*</td>
<td>1424-P-3008*</td>
</tr>
<tr>
<td>Professional Head</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Specialist Head</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Retinoscope Head</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Wide Angle Head</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Transilluminator Head</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Lithium Handle</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Rubber Grip Set</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>MEM Card Set</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Lithium Mini Charger</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Lithium Duo Charger</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
</tbody>
</table>

Note: All sets come with one case to fit all the instruments and accessories. Wide Angle sets come with two cases. The number of check marks denotes quantity of instrument or accessory in each set. Additional handles and mini charger sleeves are available.
Handles and Chargers

**Lithium-ion Charger**
- Complete Fast charge in 2 hours.
- Usable charge in 5 minutes
- Intelligent Chargers that show the state of your battery

**Slimline Lithium Handle**
- Lightweight and perfectly balanced in your hand
- High quality Smooth chrome finish eliminates cross infection
- 120 minutes of continuous use, which is ideal for long examinations

**Double Lithium-ion Chargers**
Small, footprint, compact charger takes two handles and fits neatly into any testing environment allowing easy access to your hand helds.

**Mini Lithium-ion Charger**
The Mini Charger can be connected quickly and simply to the base of your Keeler Slimline handle, making it the perfect choice for domiciliary visits or practitioners on the move. Similar to your cell phone, the diagnostic instrument can still be used whilst the battery is charging.

**Wide Angle Twin Mag Ophthalmoscope**
Ophthalmoscopy Just Got Easier!

Besides the two exceptional views achieved with the Wide Angle Twin Mag, the main advantage is the illumination is Non-Polarized.

So what does this do for you?
Non-polarization means that you do not compromise your diagnostic information. This means that it minimizes your chance of missing a tumour, any vascular changes and early macular degeneration.
Lightweight…
and Comfortable to Hold
The Wide Angle Twin Mag 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 When Being Used 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, the unique corneal lens which is optional allows examination of corneal pathology and contact lens fitting (optional).

Aperture, Graticules and Filters

www.keelerusa.com
Choosing Your Binocular Indirect Ophthalmoscope

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 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.

When you choose a Keeler indirect ophthalmoscope you are guaranteed the following benefits in all of our instruments as standard.

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 maximise 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 diagnostic 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 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

www.keelerusa.com
Go Wireless

The Keeler wireless technology gives you total freedom, allowing you to move from room to room without any constraints. It is wall mountable and stores an extra lithium battery as a back up, should you need it.

Keeler's new Vantage Plus and All Pupil II are available with this exciting new

Keeler Sets

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Vantage Plus Wireless</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vantage Plus Wired</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>All Pupil II Wireless</td>
<td></td>
<td></td>
<td></td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>All Pupil II Wired</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Spectra Wired</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Wireless Option</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Wireless Pack</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hi-Mag Lens</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Smart Pack</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Lithium Pack</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Scleral Depressor</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Teaching Mirror</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Roller Case</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Spectra Case</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>✓</td>
</tr>
</tbody>
</table>

www.keelerusa.com
Vantage Plus
Simplicity meets intelligence
The New Vantage Plus. With great new features that really add up!

The PLUS gives you
P Premium intelligent optics
L Lighter weight and brighter images
U Unique wireless patented technology
S Smaller and more compact size
Quality and efficiency

The redesigned optics combined with the new Xenon light source offers brighter high definition retinal images - PLUS you get more life from whichever Keeler battery (Metal Hybride 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 maximize 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. It is wall mountable and stores an extra lithium battery as a back up, should you need it.

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.

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 with a condensing lens, 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 teaching mirror

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.

www.keelerusa.com
**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 observer’s pupils can be moved until the best fundus view is achieved. The light source can be positioned where required.

- **Small Pupil**
  - When looking through a small pupil the optics and light source can be converged, achieving maximum stereopsis.

**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.

**New high contrast optics**

The new compact and high contrast viewing optics use Xenon illumination giving you brilliantly crisp, glare free, superior views of the retina every time you use your Vantage Plus.
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)
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.

Spectra Plus
The Compact and Portable Choice

Portable and convenient
The new Keeler Spectra Plus has some big features. It has been designed as a portable, lightweight convenient indirect that can be tucked away in its neat carrying case.

LED long lasting illumination
...and - unbelievable - no more bulbs
That’s right. No more bulbs! Just a long lasting, white homogenous light patch.

Keeler Stylish Frame
Spectra Plus comes on the new stylish Keeler frame that is not only attractive but provides maximum comfort and balance. Colors: Sky Blue, Blue, Red, and Black.

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.

www.keelerusa.com
Wireless Indirect Power Supply
(All Pupil II and Vantage)

Lithium-ion Battery
- Lightweight
- 120 minutes of continuous use
- Back-up battery provided

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.

Wired Indirect Power Supply
(All Pupil II and Vantage)

Smart Pack
Smart Pack 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
- Lightweight
- 120 minutes of continuous use
- Complete Fast charge in 2 hours.
- Indirect can be used while charging
- Usable charge in 5 minutes
- Intelligent Chargers that show the state of your battery

Convertible to Wall Pack
With other manufactured indirect systems you need to purchase a separate stationary unit with you graduate. With your Smart Pack you can easily covert to Wall Pack which fits neatly on the wall and has a built in microswitch control.

Lithium-ion Power Pack
The Lithium Power Pack was designed to optimize your power requirements in a light weight 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 Lithium-ion Power
- Lightweight 6 ounces (171 grams)
- 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

www.keelerusa.com
Notes