



 **graftonoptical.com**

Available in the UK through Grafton Optical
sales@graftonoptical.com
01923 233980

Keeler



Keeler - almost a Century 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.



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

To confirm our commitment to quality, Keeler manufactured devices carry up to three years warranty; please see our website or individual user instructions for full details.

Service

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



Direct Ophthalmoscopes



A combination of optical perfection, superb ergonomics and versatile features make Keeler direct ophthalmoscopes the ideal choice. Whatever your requirement from basic examination to detailed diagnosis, there is a Keeler ophthalmoscope for you. The next couple of pages will guide your choice but first read on to discover the benefits shared by all Keeler ophthalmoscopes as standard.

Keeler optical system – the more you see the better the diagnosis

Keeler's wide angle light beam and individual mirror alignment 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, the contoured, curved ophthalmoscope head guarantees an optimal viewing angle and the smooth line surfaces ensure a patient friendly non-threatening instrument.

Slimline handles

Keeler hand holds are supplied on a slimline, lightweight robust handle.

Light, tough and built to last

Keeler ophthalmoscopes are built from resilient, lightweight materials to give you many years of trouble free service. High impact resistant covers combined with a strong, rigid chassis protect the carefully aligned optics.

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 general diagnosis through a dilated pupil.
-  **Intermediate** - Easier access through undilated pupils and in peripheral examination. Ideal for paediatric examination.
-  **Macular** - For examination of the macular region of the fundus where a larger beam would create excessive pupillary reaction or patient discomfort.
-  **Slit** - To determine retinal elevations and depressions, can 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.
-  **Red Free and Fixation Cross** - is for vessel examination with a fixation cross for assessment of eccentric fixation.
-  **Red Free** - Used to examine blood vessels in fine detail. Blood vessels are silhouetted black against a dark green background.
-  **Cobalt Blue** - Use with fluorescein dye for the examination of corneal scars and abrasions.



The World's finest Direct Ophthalmoscope

Specialist

We recognise that illumination is of fundamental importance to good diagnosis. The 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, for example, cloudy media and cataracts.

Lightweight and well balanced

Almost 50% lighter, the Specialist combined with the slimline handle is perfectly balanced.

Expanded dioptre range

The most comprehensive lens range available in a direct ophthalmoscope, +44D to -45D lens range 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.



Part numbers

1132-P-1157 3.6V Specialist Ophthalmoscope on Slimline Handle

1132-P-1149 2.8V Specialist Ophthalmoscope on Slimline Handle

Accessories

1011-P-7034 Pack of 2 Vista 20/Specialist Ophth. Bulbs 3.6V Xenon

1011-P-7042 Pack of 2 Vista 20/Specialist Ophth. Bulbs 2.8V Halogen



Professional

The Professional Ophthalmoscope has been designed to ensure ultimate control. Lenses, graticules and filters can all be introduced at the touch of a fingertip without the need to pull away from the patient.

Positive action maywheel and comprehensive lens range

The positive action, easy access, maywheel not only allows you to dial up the required lens quickly, but also gives you total control of where you are in the lens range making each exam quicker and easier.

The extensive range of +29D to -30D in single dioptre steps ensures easy examination of all ocular structures and covers a wide range of patient/user prescriptions. A quick step swing of +/- 20D helps speed up diagnosis.

Xenon illumination

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



Swing over filter

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

Brow rest

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

Professional
Ophthalmoscope
bulb



Part numbers

1128-P-1014 3.6V Professional Ophthalmoscope on Slimline Handle

1128-P-1013 2.8V Professional Ophthalmoscope on Slimline Handle

Accessories

1011-P-7114 Pack of 2 Professional Ophthalmoscope Bulbs 3.6V Xenon

1011-P-7106 Pack of 2 Professional Ophthalmoscope Bulbs 2.8V Xenon



Professional Combi Retinoscope

Optimised for outstanding performance with either a Streak or Spot beam with a simple bulb change.

600 lux of brilliant halogen illumination

The Professional Combi Retinoscope guarantees you enough light to refract even the most difficult eyes.

Neutralisation check (Patented)

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 every time.

Precision magnetic control (Patented)

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.

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 Professional Combi Retinoscope Bulbs

1013-P-7009 Pack of 2 Professional Streak Retinoscope bulbs 3.6V

1013-P-7011 Pack of 2 Professional Spot Retinoscope bulbs 3.6V

1013-P-7008 Pack of 2 Professional Streak Retinoscope bulbs 2.8V

1013-P-7010 Pack of 2 Professional Spot Retinoscope bulbs 2.8V

Vista Retinoscope Bulbs

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



Professional/
Vista Spot
Retinoscope bulb



Ophthalmoscope/Retinoscope Sets and Wall Units



Ophthalmoscope/Retinoscope Sets

You can purchase your Ophthalmoscope and Retinoscope in a slimline double handle case and add in a Lithium Double Charger.

Part numbers

Specialist Ophthalmoscope/Retinoscope Sets

1427-P-1063	Specialist & Professional Streak Ret. Set 3.6v Lithium Battery
1427-P-1065	Specialist & Professional Spot Ret. Set 3.6v Lithium Battery
1427-P-1062	Specialist & Professional Streak Ret. Set 2.8v Dry Cell Battery
1427-P-1064	Specialist & Professional Spot Ret. Set 2.8v Dry Cell Battery

Professional Ophthalmoscope/Retinoscope sets

1427-P-1059	Professional Ophth. & Streak Ret. Set 3.6v Lithium Battery
1427-P-1061	Professional Ophth. & Spot Ret. Set 3.6v Lithium Battery
1427-P-1058	Professional Ophth. & Streak Ret. Set 2.8v Dry Cell Battery
1427-P-1060	Professional Ophth. & Spot Ret. Set 2.8v Dry Cell Battery

1941-P-1368	Lithium Double Charger
1999-P-7308	Wall Bracket for above

Wall Units

Keeler's anti-theft designed Ophthalmoscopes and Retinoscopes have a lockable head and handle fitting so you'll always find them where you left them.

- Strong coiled tangle-free cable permits instrument use up to 3 meters from the transformer
- The robust construction is ideal for busy working conditions
- Automatic illumination when instruments are removed from cradle. With LED confirmation

Part numbers

1964-P-2001	Double Cord handle power supply
1132-P-1050	3.6V Specialist Ophthalmoscope head only
1128-P-1004	3.6V Professional Ophthalmoscope head only
1132-P-1042	2.8V Specialist Ophthalmoscope head only
1128-P-1003	2.8V Professional Ophthalmoscope head only
1302-P-1007	3.6V Streak Retinoscope head only
1302-P-1005	3.6V Spot Retinoscope head only
1302-P-1006	2.8V Streak Retinoscope head only
1302-P-1004	2.8V Spot Retinoscope head only



Ophthalmoscope/Retinoscope Set



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.

Wall Unit



Accessories



Colour Coded Grips

Add a bit of colour to your diagnostic area with colour coded grips. Available in four colours these new grips are not only fun but functional too!

Available individually or as an assorted pack of four, choose from pink, green, blue or black.

Near Point Cards for Retinoscopy



Keeler Slimline Handles

Spare handles for your instruments available in 3.6V Lithium rechargeable (red base) or 2.8V Battery (blue base) options.



Part numbers

Colour Coded Grips

1901-P-7028 Pink

1901-P-7036 Green

1901-P-7044 Blue

EP29-05365 Black

1901-P-7052 Pack of Four Assorted Colour Coded Grips

Near Point Cards for Retinoscopy

1321-P-7021 Near Point Cards for Retinoscopy

Keeler Slimline Handles

1911-P-1201 3.6V Slimline Handle

1901-P-1101 2.8V Slimline Handle

Chargers and Upgrade Kits

A two hour fast charge and over 2 hours continuous use means your instrument is always ready for use. Choose between the Lithium-ion Double or Mini Chargers.

Over 2 hours of continuous use

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

LED displays

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

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 desk or wall mounted.

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. Your instruments can still be used whilst the battery is charging.



Upgrade Kits

Keep your existing heads and upgrade to Lithium-ion. The Double Lithium Upgrade Kit (pictured) includes 2 x handles and a Lithium-ion Double Charger.

The Mini Charger Upgrade Kit includes 1 x handle and a Lithium-ion Mini Charger.

Part numbers

1941-P-1368 Lithium-ion Double Charger

1941-P-1341 Lithium-ion Mini Charger

Upgrade Kits

1911-P-1228 Lithium-ion Double Charger and 2 Handles (Upgrade Kit)

1911-P-1236 Lithium-ion Mini Charger plus Handle (Upgrade Kit)

Lithium Battery

EP39-18918 Lithium Battery

