



## 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 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.

#### 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.













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

#### New Cobalt Blue filter

The new blue filter can be used in conjunction with fluorescein dye for the detection and examination of corneal scars and abrasions.

#### Pupillometer gauge

The pupillometer disc allows quick and easy estimation of pupil size.

Specialist/Vista Ophthalmoscope bulb

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

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 Retinoscope

Optimised for outstanding performance with either a Streak or Spot halogen beam with a simple bulb change. Plus the new LED Professional Streak Retinoscope is now available!

#### Choice of illumination

Choose between 600 lux of brilliant halogen illumination or the new LED Retinoscope. Whichever you choose, the Professional guarantees you enough light to refract even the most difficult eyes.

#### New LED Professional Streak Retinoscope

Gives you better contrast, image quality and longer battery life.

#### Neutralisation check (Patented)

The only Retinoscope allowing rapid confirmation of neutralisation. You can change the beam from divergent to convergent enabling you to cross check the accuracy of the neutral point, guaranteeing 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.

1302-P-1014	1014 LED Professional Streak Retinoscope 3.6v		
1302-P-1011	Professional Streak Retinoscope 3.6V		
1302-P-1009	Professional Spot Retinoscope 3.6V		
1302-P-1013	LED Professional Streak Retinoscope 2.8v		
1302-P-1010	Professional Streak Retinoscope 2.8V		
1302-P-1008	Professional Spot Retinoscope 2.8V		
Accessories			
1305-P-7000	LED Streak Bulb		
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 Retinos	cope 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		





Ophthalmoscope/Retinoscope Set For Colour Coded Grips please see overleaf



# 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

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1427-P-1104	Specialist & LED Prof. Streak Ret. Set 3.6v Lithium Battery
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-1103	Specialist & LED Prof. Streak Ret. Set 2.8v Dry Cell 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-1102	Professional Ophth. & LED Streak Ret. Set 3.6v Lithium Battery
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-1101	Professional Ophth. & LED Streak Ret. Set 2.8v Dry Cell 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

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-1012	3.6v and 2.8v LED Streak Retinoscope 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			

# 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

1911-P-1228	Lithium-ion Double Charger and 2 Handles (Upgrade Kit)
Upgrade Kits	
1941-P-1341	Lithium-ion Mini Charger
1941-P-1368	Lithium-ion Double Charger

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

Lithium Battery

EP39-18918 Lithium Battery







## 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**

direction prin	turn arrow	
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#### **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 Codeo	l 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 Ca	ards for Retinoscopy		
1321-P-7021	Near Point Cards for Retinoscopy		
Keeler Slimlir	ne Handles		
1911-P-1201	1 3.6V Slimline Handle		
1901-P-1101	2.8V Slimline Handle		

### More Keeler Instruments

For over ninety years we have manufactured top quality precision ophthalmic instruments.

View our full range at www.keeler.co.uk | www.keelerusa.com

## Got a question? - Call us

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