Keeler

– A world without vision loss –

Full Product Catalog

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Over A Century of Innovation

We have been manufacturing ophthalmic instruments since 1917 and 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. We combine 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, our manufactured devices carry up to three years warranty; please see our website or individual user instructions for full details.

Service

Our technical service team and our authorized distributors will carry out repairs and routine maintenance to your equipment.
We offer a service exchange plan that covers 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.

Keeler Slit Lamps

The Keeler slit lamp has emerged as the newest product in our ophthalmic family, designed with you and your patients in mind. We designed it to be a visually pleasing, customizable device using our tried-and-tested optics and everything that the Keeler name stands for.

Keeler optics

We have spent decades perfecting our optics design to produce some of the clearest and sharpest images on the market today. Manufactured in-house, every Keeler slit lamp (KSL) comes equipped with our world-class optics to produce stunning images for clearer and more accurate examination results.

Product configurability

We aim to be flexible with your needs, therefore each slit lamp can be configured to your liking. From number of magnification settings to digital or traditional systems, you can adjust many different features. Along with this, third-party accessories provide even more options for digital solutions in order to get the most out of your slit lamp.

Visual aesthetics

Line up different brands of slit lamps side-by-side, and you will immediately be able to pick the KSL out of the bunch. With its silver paint, the KSL stands out amongst the other slit lamps in the market.

Value for money

The KSL is a top-quality product that won't break the bank. With mid-range pricing, stunning optics, unique design, and quality performance, the KSL provides a cut above the rest in its price range.

Market adaptability

We have worked hard to create a product that can adapt to fit the market and consumer needs through design, configurability, and digital solutions. We have recently partnered with Advanced Ophthalmic Systems (AOS) as their exclusive global distributor for their anterior analysis software to enhance the digital slit lamp functionality.

Other third-party accessories, ranging from imaging adaptors to software, are constantly being added to the portfolio to give end users one of the most adaptable slit lamps on the market. Not only do we sell slit lamps under the Keeler name but we also provide OEM solutions using engineering expertise.

Slit lamp naming codes

The Keeler slit lamp (KSL) naming scheme has been developed to provide a description of the product configuration within the name itself. The following section provides the naming scheme as well as tables containing the part numbers associated with each code.

Product range name	Slit lamp style (choose one)	Slit lamp drum type (choose one)	Slit lamp configuration (choose one)
KSL (Keeler Slit Lamp)	**H** H-Style **(OR)** **Z** Z-Style	**5** 5-Step Drum **(OR)** **3** 3-Step Drum	Traditional – No Code **DR** Digital Ready **D** Digital
FOR EXAMPLE, IF YOU CHOOSE A TRADITIONAL H STYLE SLIT LAMP WITH 3 DRUM MAGNIFICATION, THE CODE IS KSL-H3			
FOR EXAMPLE, IF YOU CHOOSE A DIGITAL H STYLE SLIT LAMP WITH 5 DRUM MAGNIFICATION, THE CODE IS KSL-H5-D			

Description	Product name
H-STYLE // TRADITIONAL // 5-STEP DRUM	KSL-H5
H-STYLE // DIGITAL READY // 5-STEP DRUM	KSL-H5-DR
H-STYLE // DIGITAL // 5-STEP DRUM	KSL-H5-D
H-STYLE // TRADITIONAL // 3-STEP DRUM	KSL-H3
H-STYLE // DIGITAL READY // 3-STEP DRUM	KSL-H3-DR
H-STYLE // DIGITAL // 3-STEP DRUM	KSL-H3-D
Z-STYLE // TRADITIONAL // 5-STEP DRUM	KSL-Z5
Z-STYLE // DIGITAL READY // 5-STEP DRUM	KSL-Z5-DR
Z-STYLE // DIGITAL // 5-STEP DRUM	KSL-Z5-D
Z-STYLE // TRADITIONAL // 3-STEP DRUM	KSL-Z3
Z-STYLE // DIGITAL READY // 3-STEP DRUM	KSL-Z3-DR
Z-STYLE // DIGITAL // 3-STEP DRUM	KSL-Z3-D

H-Style traditional,
5-step or 3-step

H-Style digital,
5-step or 3-step

Z-Style traditional,
5-step or 3-step

Image capture options

Kapture Lite video

Kapture Lite is a stand-alone system including still capture with live preview, video capture, patient database, image processing, import, and export. This software is included with the digital camera upgrade package and the complete KSL digital system.

Kapture Digital

This includes all of the features of Lite plus video capture, measurements, network connectivity, and multiple image printing and saving.

Upgrade options

Digital

Upgrade from Kapture Lite to Kapture Digital to have network connectivity (essential if you require a review station), measuring, and multiple image printing and saving.

Kapture View

Allows patient data and images to be viewed over the network – this requires the Kapture station to be networked.

Kapture View Plus

Includes file import and measure – the Kapture station must be networked.

Kapture features

- Freeze and freeze-frame review.
- Still capture and optional upgrade to video capture.
- Image import and export, compare.
- Color balance, crop, zoom, split RGB, and more.
- Annotate, flip, draw, invert color.
- Sharpen, contrast/brightness, and gamma control.

Keeler Certified slit lamp accessories

In order to enhance the user experience to the best of our ability, we offer a variety of “Keeler Certified” slit lamp accessories to improve image quality, capture methods, and analysis.

TTI beam splitter adaptor with Canon SLR camera

The TTI beam splitter and camera adaptor will allow users to connect a Canon EOS camera directly to their slit lamps. The camera, combined with the connected beam splitter, gives strikingly clear images from the slit lamp. Cameras range in resolution from 18.1 to 24.1 megapixels (depending on the camera) with a removable prism in the beam splitter to have 100% of the light transmitted. An optional foot switch is included for image capture.

For more information or to order, visit ttimedical.com or email Ross Howes at rhowes@ttimedical.com.

Eye Photo Systems

The Eye Photo Systems EasyCapture software is an image capture and management software that has an intuitive user interface. It allows users to capture high-quality slit lamp images with ease. With a software that automatically adjusts the camera setting based on the part of the eye selected, users can expect an image that looks amazing every time.

For more information or to place an order, visit eyephotosystems.com or email sales@eyephotosystems.com

Extra large slit lamp breath shield

This Keeler manufactured breath shield provides both clinician and patient protection while still allowing easy use of the slit lamp. Sitting between the binoculars and the magnification block, this breath shield is compatible with any Keeler slit lamp, as well as any slit lamp with a 70mm (diameter) dovetail joint. It is made of clear plastic with a 1.5mm thickness. The overall size measures 13.7” x 13.7” – allowing the clinician to easily reach around the shield to use a lens during the exam.

PART NUMBER

- EP39-80753 – Extra large slit lamp breath shield

Teaching tube and beam splitter

For use in university or teaching settings, this device allows an observer to look through the oculars from a side observation tube while someone else looks through the eyepieces and controls the slit lamp.

PART NUMBERS

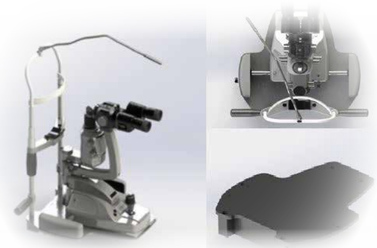
- 10.02.03.613 – Observer tube
- 10.02.13.309 – Beam splitter

Slit lamp mounting plate

The mounting plate is recommended for any installation on a refraction unit. It removes the possibility of misalignment when mounting runners and chinrest assembly directly to a unit and reduces the amount of time required for the installation.

PART NUMBERS

- EP29-27118 – Stand-alone plate (price separately; different part number with slit lamp included)



Portable Slit Lamps (PSL)

Versatility and portability are the key benefits of the PSL One and PSL Classic slit lamps. We designed and manufactured them with the strength to withstand the daily traumas of the demanding ophthalmic environment. Both PSL models are lightweight, durable, and robust.

Advanced optics

Choose between 10x and 16x magnification with the Classic, or 10x magnification with the One. Top quality, multi-layered glass is crafted into our multi-element and multi-layer coated optics to give maximum performance. Clarity is guaranteed.

Controllable illumination

Illumination levels are controlled by a rheostat, giving you control of your examination parameters. From zero to maximum, you choose.

Big slit lamp features, portable usability

Unique features such as the fixation targets, and the 1mm square light patch for assessing anterior chamber flare set the new standard for portable slit lamps.

For more information on icons, please refer to the guide on page 75.

Slit wheel

1x1 0.15 0.5 0.8 1.6 12

Carrying case

Protect your investment with a strong, aluminum carrying case – perfect when your slit lamp is not in use or when you are traveling.

	PSL classic	PSL one
MAGNIFICATION	10x & 16x	10x
CHARGING BASE	Yes	No
DIRECT CHARGING	Yes	Yes
COLOR	Blue & white	Blue & black
ALUMINUM CASE	Yes	Option

Slit lamp part numbers

KSL-H (traditional) with LED illumination

3 STEP MAGNIFICATION DRUM

- 3020-P-2090 – KSL-H3, table model
- 3020-P-2091 – KSL-H3, refraction model (with mounting post)

5 STEP MAGNIFICATION DRUM

- 3020-P-2007 – KSL-H5, table model
- 3020-P-2013 – KSL-H5, refraction model (with mounting post)

KSL-H-DR (digital ready) with LED illumination

3 STEP MAGNIFICATION DRUM

- 3020-P-2096 – KSL-H3-DR, table model
- 3020-P-2097 – KSL-H3-DR, refraction model (with mounting post)

5 STEP MAGNIFICATION DRUM

- 3020-P-2020 – KSL-H5-DR, table model
- 3020-P-2021 – KSL-H5-DR, refraction model (with mounting post)

KSL-H-D (digital) with LED illumination

3 STEP MAGNIFICATION DRUM

- 3020-P-2094 – KSL-H3-D, table model
- 3020-P-2093 – KSL-H3-D, refraction model (with mounting post)

5 STEP MAGNIFICATION DRUM

- 3020-P-2010 – KSL-H5-D, table model
- 3020-P-2015 – KSL-H5-D, refraction model (with mounting post)

KSL-Z (traditional) with LED illumination

3 STEP MAGNIFICATION DRUM

- 3020-P-2042 – KSL-Z3, table model
- 3020-P-2043 – KSL-Z3, refraction model (with mounting post)

5 STEP MAGNIFICATION DRUM

- 3020-P-2051 – KSL-Z5, table model
- 3020-P-2052 – KSL-Z5, refraction model (with mounting post)

KSL-Z-DR (digital ready) with LED illumination

3 STEP MAGNIFICATION DRUM

- 3020-P-2030 – KSL-Z3-DR, table model
- 3020-P-2031 – KSL-Z3-DR, refraction model (with mounting post)

5 STEP MAGNIFICATION DRUM

- 3020-P-2038 – KSL-Z5-DR, table model
- 3020-P-2040 – KSL-Z3-DR, refraction model (with mounting post)

KSL-Z-D (digital) with LED illumination

3 STEP MAGNIFICATION DRUM

- 3020-P-2045 – KSL-Z3-D, table model
- 3020-P-2046 – KSL-Z3-D, refraction model (with mounting post)

5 STEP MAGNIFICATION DRUM

- 3020-P-2054 – KSL-Z5-D, table model
- 3020-P-2055 – KSL-Z5-D, refraction model (with mounting post)

Kapture software, upgrades, & review stations

- 3020-P-7036 – Kapture Lite
- 3020-P-7038 – Kapture Digital
- 3020-P-7042 – Upgrade Kapture Lite to Digital
- 3020-P-7045 – Kapture View
- 3020-P-7046 – Kapture View Plus

PSL slit lamps

- 3010-P-2000 – PSL Classic
- 3010-P-2001 – PSL One

PSL accessories

- 3010-P-7000 – PSL carrying case
- 1030-P-7195 – PSL LED replacement module (instead of bulb)
- 3010-P-5026 – Base charger for PSL Classic
- 1030-P-7187 – Replacement bulb (6 volts, 15 watts)
- EP59-47130 – Replacement lithium battery
- 3010-P-7004 – Replacement eye caps (2)
- EP39-70737 – Test bar

Binocular Indirect Ophthalmoscopes

Since 1958, when we introduced the Fison, our first binocular indirect ophthalmoscope, we have developed a reputation as the innovator in the development and manufacturing of indirect ophthalmoscopes. In 2003, we introduced the first Keeler "wireless" indirect ophthalmoscopes available on our All Pupil or Vantage models. Wireless gives you the freedom to move from room to room without any constraints – no more wires, cords, or tangles – just a lightweight, balanced, and comfortable indirect ophthalmoscope. When you choose a Keeler indirect ophthalmoscope, you are guaranteed the following standard benefits in all of our instruments.

Keeler optics

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

Comfort and balance

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

Easy-fit illumination

Our indirects have been designed to ensure optimal performance. LED modules and bulbs are easily accessible and quick to change.

Adjustable brilliant illumination

Why have all of the controls on the wall when the unit is on your head? On the All Pupil II and Vantage, the illumination rheostat is located on the headband; providing easily accessible, fully controllable light. Our indirects have the brightest illumination but can be turned down to as low as 2%.

IR/UV filters

You are always 100% protected with our IR/UV filters that are built into the optics. LED products emit no harmful UV or IR wavelengths.

Wide-angle diffuser

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

Bulb OR LED module installation

Illumination rheostat

Vantage Plus LED Digital

Digital imaging anywhere you want it

As the world leader in binocular indirect technology, we lead the way with the first digital binocular indirect system by moving away from analog video with true digital imaging. Utilize the Vantage Plus LED Digital in your office, operating room, teaching facility, or anywhere you want to capture digital images.

The intuitive and powerful Keeler software allows you to use your laptop, tablet, or any USB interface to optimize the examination by providing still or dynamic images that aid in the documentation and diagnosis of your patient.

Increase your practice profile by educating your patients and their families with digital dynamic imaging in your office.

Features

USB INTERFACE	Plugs into any laptop or computer system; record exams in digital format
KEELER SOFTWARE	For still or dynamic imaging, storage, and documentation
OPERATING SYSTEM	Windows 7 and Windows XP
PART NUMBERS	1205-P-5010 – Vantage Plus LED Digital wireless ophthalmoscope system 1205-P-7001 – Optional footswitch
INCLUDES	Docking station, power supply, additional slimline polymer battery, Keeler software, remote control, and carrying case

Camera Specifications

INTERFACE	USB 2 mini B
SUPPLY	Taken from USB 2 interface
RESOLUTION	To test pattern 6 of group 2 on the 1951 USAF TEST PATTERN (conforms to MIL-STD 150A standard), when used in combination with a 20D lens
DRIVER	When installed, will work with any video package capable of receiving video input from a USB source
CONNECTOR	To connect camera to a PC, Keeler recommends a 5m long USB 2.0A to a mini 5 pin (sometimes packaged as a USB 2.0A to a mini B lead)
RANGE	The camera can be adjusted ±7 degrees

Variable working distance

FOCUS	11–24 inches

Adjustment

VERTICAL ADJUSTMENT	Achieved by rotating the adjustment screw on the mirror holder the image should be adjusted so that the light patch is in the center
HORIZONTAL	Factory set adjustment

Physical

SIZE	Approximately 50mm longer than the standard Vantage Plus
WEIGHT	Total weight is 662g

Vantage Plus

US Patent Number 8,132,915

LED illumination

The LED cooler color provides brighter, whiter illumination, longer battery life, and freedom from purchasing bulbs. Superior optics combined with the LED illumination provides greater detail, allowing you to find retinal pathologies that are not visible with the xenon bulb.

Slimline lithium polymer battery

The slimline lithium polymer battery weighs only 53 grams, making it comfortable and perfectly balanced. Wireless technology allows you to move from room to room and lasts up to six hours because of its combined LED illumination and lithium polymer battery.

Convertible technology

The Vantage Plus convertible technology offers you the choice between a LED for longer life and better contrast, or a traditional xenon bulb.

Quality and efficiency

The high-contrast optics combined with the neutral LED or xenon light source offer brighter and higher definition retinal images.

15% lighter

Advanced textured engineering materials provide a lighter, smaller, and more-compact instrument without compromising the renowned Keeler reputation for robustness, reliability, and quality.

Filters and apertures

IR/UV filters are built into the optics of the Vantage Plus with optional filters and a choice of three apertures, plus, a soft light diffuser.

For more information on icons, please refer to the guide on page 75.

48 – 76mm

BIO face shield

Our BIO face shields are easily attached and provide full facial protection, keeping you and your patients safe. These are now included in every BIO order.

More details on pages 71–74 in our PPE section.

Convertible technology – Interchangeable LED module and xenon bulb

Slimline lithium polymer battery

> I chose Keeler's BIO over competitors' because it is an easy fit, comfortable, and light. The portable LED lamp is spectacular. The optics and view with the lighting system is better than any other BIO I've used.
>
> Dr. Shane Sanders, O.D.

> The cooler color temperature of the LED light source resulted in a level of image clarity that I've not found in another BIO. I have been able to find retinal pathology that was not visible with the xenon bulb BIOs in our clinic.
>
> Todd J. Purkiss, M.D., Ph.D.
> Ophthalmology and Visual Sciences, Kentucky Eye Care in Louisville

Intelligent Optical System (IOS)

US Patent Number 8,132,915

When you change the aperture, the optics and mirrors automatically adjust for you without the need to flip another lever! We have designed this unique, single-step movement to make your examinations easier and faster. When you select the small, medium, or large aperture, the optics automatically adjust through the IOS mechanism. This provides three-dimensional stereoscopic views of the retina through all pupil sizes.

Large pupil

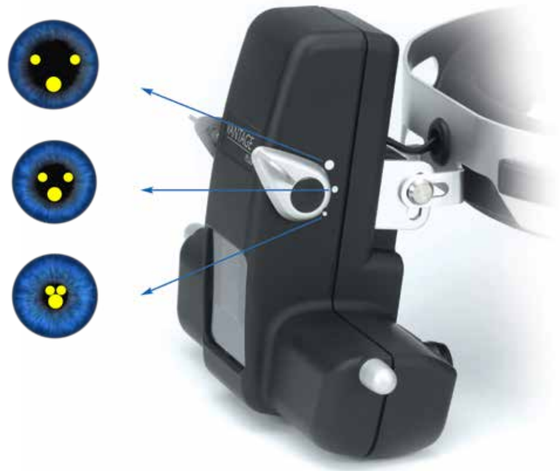
When looking through a large, fully-dilated pupil, the optics are separated and the light source remains in the upper position, achieving maximum stereopsis.

Intermediate pupil

When looking through an intermediate pupil, the optics and light sources are in a “mid position” for maximum stereopsis.

Small pupil

When looking through a small pupil, the viewing optics and light source are converged to allow you to view the retina through the smallest pupils stereoscopically.



IOS Optics without 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.

HiMag Lens

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 the HiMag can be simply flipped out of view when not required.

View when using a 20D lens and the Keeler HiMag lens.

View when using a 20D lens only.

Teaching mirror

The teaching mirror easily slides on and off, allowing two observers to view the retina at the same time.

Teaching mirror

HiMag Lens

All Pupil II

The All Pupil II is based on the design of the number-one selling All Pupil indirect. Look out for the features designed to make your examinations easier and more comfortable.

Go wireless

No more wires and cords – the user now has freedom to move from room to room without any constraints.

Outstanding brightness

The All Pupil II offers maximum illumination with total control. With 2,000 lux, the illumination can also be turned down to 2%.

Lightweight and comfortable

The device 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.

Convertible technology

All Pupil II convertible technology offers you the choice between a neutral LED for longer life, better contrast, and a white light or a traditional xenon bulb in the same product.

LED illumination

The neutral LED cooler color provides brighter, whiter illumination, longer battery life, and freedom from purchasing bulbs. Clinically, the superior optics combined with the natural LED illumination could provide greater detail, allowing you to find retinal pathology that was not visible with the xenon bulb.

47–75mm

For more information on icons, please refer to the guide on page 75.

Convertible technology – Interchangeable LED module and xenon bulb

LED module and bulb installation

Teaching mirror attachment

Slimline lithium polymer battery

The slimline lithium polymer battery weighs only 53 grams, making it comfortable and perfectly balanced. Wireless technology allows you to move from room to room and lasts up to six hours because of its combined LED illumination and lithium polymer battery.

15% lighter

Advanced textured engineering materials provide a lighter, smaller, and more compact instrument without compromising the renowned Keeler reputation for robustness, reliability, and quality.

Filters and apertures

IR/UV filters are built into the optics of the All Pupil II with optional filters and a choice of three apertures, plus a soft light diffuser. The built-in IR/UV barrier guarantees improved patient protection and safety.

Quality and efficiency

The high-contrast optics combined with the neutral LED or xenon light source offers brighter high-definition retinal images.

BIO face shield

Our BIO face shields are easily attached and provide full facial protection, keeping you and your patients safe. These are now included in every BIO order.

More details on pages 71–74 in our PPE section.

Spectra Iris

Little indirect, bigger benefits!

The Spectra Iris 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 carrying case or hung around your neck when not in use. You can also adjust the size of the aperture at the touch of a slider.

Keeler sport frame

Spectra Iris comes on the new Keeler Sport Frame. This wrap-around frame is not only attractive but provides maximum comfort and balance.

LED long-lasting illumination

No more bulbs, just a long-lasting, white homogenous light patch that can be used for up to four hours continuously.

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.

Single-movement hinge

The hinge allows the Spectra Iris to sit closer to your eyes for a better view and a more comfortable fit.

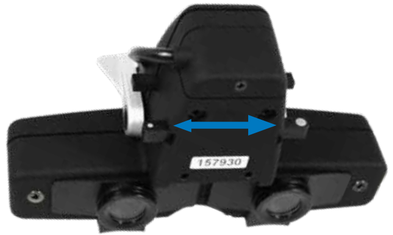
48–76mm

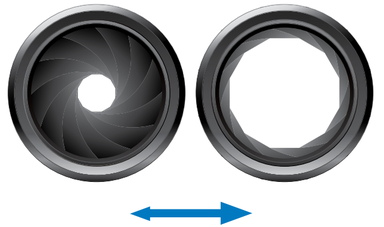
For more information on icons, please refer to the guide on page 75.

Teaching mirror attachment

Adjustable Aperture Slider

Now you can adjust the aperture simply by moving the slider. Slide to the right to increase aperture size, and slide to the left to decrease it. The aperture range is from 20mm to 60mm.





Wireless power supply options

Keeler wireless technology allows you to move from room to room without any constraints. The chargers are either desktop or wall mountable, and they hold an extra lithium battery as a back-up.

Slimline wireless charger

The desktop or wall-mountable charger remains as durable as the standard wireless with the facility to store your extra battery in the top compartment. The charger has an easy-release button to remove the extra battery. LED indicators show the level of charge in both batteries when BIO is docked and the spare battery is clipped in back.

Slimline wireless charger

Lithium-ion battery

- Lightweight – six ounces (171 grams)
- For use with Spectra Plus and Spectra Iris
- Fully charges in two hours
- Usable charge in five minutes

Wall pack

The wall pack is used to mount your indirect to the wall and has a built-in microswitch.

Double lithium-ion charger | Slimline wireless charger | Mini lithium-ion charger

Universal power plug

The cord used to power the slimline wireless charger can also be used across our entire product line (with the exception of our cryo units). This allows you to easily swap out power cords from your PSL to your duo charger, or even your Pulsair Desktop. We try to make our products as convenient to use as possible, and our power source is no different.

Smart pack

The smart pack is a stylish power supply system that combines three 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 a smart pack for your Vantage Plus or All Pupil II.

Features

- Lightweight
- 120 minutes of continuous use
- Fully charges in two hours
- Indirect can be used while charging
- Usable charge in five minutes
- Shows the state of your battery

Part numbers for indirects, power supplies, and accessories

Vantage Plus LED Convertible indirect ophthalmoscope

Wired and wireless units come with an LED module, HiMag lens, and dimmer control.

- 1205-P-1010 – Wired headset only (no battery/charger)
- 1205-P-1020 – Slimline wireless headset with charger and (2) batteries
- 1205-P-1014 – Slimline wireless headset only (no battery/charger)

Vantage Plus LED Digital indirect ophthalmoscope

- 1205-P-5010 – Wireless headset with Kapture Lite video software, docking station, power supply, (1) extra battery, and carrying case
- 1205-P-5010-001 – Wireless headset with NO SOFTWARE. Docking station, power supply, (1) extra battery, and carrying case included.
- 1205-P-7005 – Optional Dell E5420 Notebook
- 1205-P-7009 – Optional Surface 3 tablet with power supply and carrying pouch
- 1205-P-7001 – Optional footswitch

All Pupil II Convertible indirect ophthalmoscope

All Pupil II wired and wireless units come with a dimmer control.

BULB ILLUMINATION

- 1204-P-3100 – Wired headset with 10w halogen bulb

LED ILLUMINATION

- 1205-P-2000 – Slimline wireless headset with charger and (2) batteries
- 1205-P-2003 – Slimline wireless headset only (no battery/charger)

Spectra Iris indirect ophthalmoscope

Spectra Iris comes with the optics, frame, lithium power pack, and charger.

- 1205-P-2012 – Spectra Iris on black sport frame, small temples (130mm)
- 1205-P-2010 – Spectra Iris on black sport frame, regular temples (135mm)
- 1205-P-2011 – Spectra Iris on black sport frame, large temples (150mm)

Power supplies for wired indirects

- 1945-P-1001 – Smart pack
- 1945-P-1000 – Wall pack
- 1941-P-5385 – Spectra Plus/Iris lithium charger and power supply
- 1919-P-5215 – Spectra Plus/Iris lithium battery with rheostat

Other accessories

- 1012-P-7008 – All Pupil II LED module
- 1012-P-5276 – Vantage Plus LED module
- 1202-P-7205 – Vantage Plus teaching mirror
- 1202-P-7117 – All Pupil II teaching mirror
- 1205-P-7000 – Spectra teaching mirror
- EP39-22079 – Smart pack battery
- 1201-P-6076 – Pencil-type depressor
- 1201-P-6075 – Small depressor
- 1201-P-6067 – Large depressor

CASES

- 3412-P-7002 – Spectra Iris soft case
- 3412-P-7000 – Vantage Plus or All Pupil II professional 3-in-1 carrying case. Easily convert from roller case to a handheld backpack.

Spectra case

Depressors

3-in-1 case

Tonometry – Let's Fight Glaucoma

TonoCare

We are delighted to present our most advanced handheld tonometer to date. The TonoCare is set to revolutionize the handheld market. Designed and built with patient comfort in mind, the TonoCare is truly simple to use and gives consistently fast, accurate and reliable readings. Whatever the mobility of the patient and wherever it's being used, the TonoCare offers exceptional performance time and time again.

Using air saves you money

Rebound tonometry can get expensive! In addition to the base cost of a rebound tonometer, disposable pins have to be purchased on a regular basis. Each patient requires two pins, one per eye, to prevent cross contamination. If a practice sees one patient a day, they are purchasing 624 pins a year. A practice that sees 40 patients a day purchases at least 24,960 pins per year. The cost for that many pins is exorbitant.

Why spend that much money when you don't have to? The TonoCare uses air puff technology, eliminating any re-occurring costs. Not only is the air free, but there is no risk of cross contamination between eyes.

Features

- **Ease of use** - Easy-to-follow instructions and intuitive controls ensure easy training. The lightweight, yet robust, handheld form means it quickly and easily adaptable to be used in many different environments.
- **Patient comfort** - The highly portable unit allows measurements to be taken wherever the patient is most comfortable. The sleek product profile means the clinician can maintain visual contact with the patient throughout the measurement process.
- **Accuracy** - Uses advanced optical and sensor technology for positional detection and puff control. Clear user controls and a colored internal display combine to provide exceptional usability.
- **Speed of use** - Ready to use in less than 10 seconds after being switched on; readings for both eyes can be achieved in 30 seconds.
- **Patient safety** - Ensures a minimal risk of eye damage or cross contamination.

Specifications

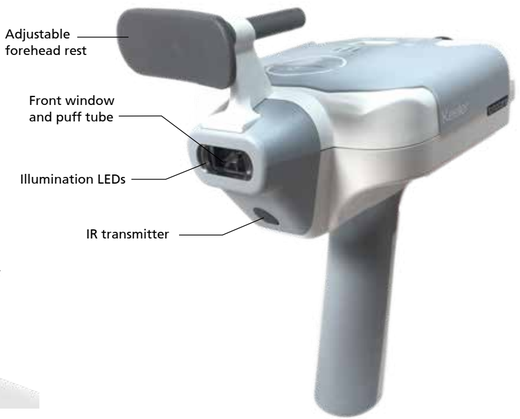
MEASUREMENT RANGE	5mmHg to 50mmHg
MEASUREMENT DISTANCE	~11mm from eye
EQUIPMENT STANDARD	Conforms to BS EN ISO 8612
INPUT VOLTAGE RANGE	The camera can be adjusted ±7 degrees
POWER RATING	4.6 – 7.4VA
PC INTERFACE	USB
WIDTH	136mm (hand unit) 155mm (docking station)
DEPTH	206mm (hand unit) 183mm (docking station)
PART NUMBER	2418-P-2000 – TonoCare

Classifications & safety standards

COMPLIES WITH	EN60601-1, UL60601-1
EQUIPMENT CLASSIFICATION	Class II
MODE OF OPERATION	Continuous
PROTECTION AGAINST INGRESS	IPX0 (Hand Unit and Docking Station)

Environmental Conditions

OPERATING TEMPERATURE	+50°F to +95°F (+10°C to +35°C)
STORAGE TEMPERATURE	-50°F to +131°F (-10°C to +55°C)
RELATIVE HUMIDITY	10% to 95% (storage) 30% to 90% (operating)
ATMOSPHERIC PRESSURE	700hPa to 1060hPa (storage) 800hPa to 1060hPa (operating)



Pulsair tonometers

In 1986, the Pulsair Tonometer revolutionized non-contact tonometry with its unique, handheld and portable system. It brought a new dimension to patient care as well as increasing the management of space and time.

Pulsair and tonometry are synonymous – the fifth generation intelliPuff handheld model combines contemporary styling together with technologies, and the Pulsair Desktop brings the Pulsair name to those requiring a chin-rest desktop device. Applanation tonometry is a widely practiced and respected technique; the Keeler Applanation Tonometer (KAT) will match that level of respect with our exceptional quality and manufacturing consistency.

Stylish and practical

Both the Pulsair Desktop and Pulsair intelliPuff have exceptional patient visualization; the slim profiles of the Pulsair optical mainframe allows the clinician to maintain visual contact with the patient at all times during the measurement process.

Engineering and design excellence

Pump, solenoid control valves, a plenum chamber, and an optical mainframe are all designed to function optimally to allow efficient and fast measurement. LED illumination provides a constant and reliable light source for the alignment camera and the positional detection systems. Pulsair tonometers are cost effective and require no sterile consumables. Printing is also under your control, so ongoing costs are managed.

Pulsair IntelliPuff

Bringing versatility to tonometry, wall-mounted or desk-mounted, the lightweight handheld optical mainframe allows the clinician to measure all patients with equal comfort. The flexibility of use and space-saving design make this instrument virtually unbeatable for performance and value.

Handheld

Being handheld, Pulsair intelliPuff avoids the need to position the patient in a chinrest. It is fast and easy to use while the patient is already seated in an examination chair.

Pulsair Desktop

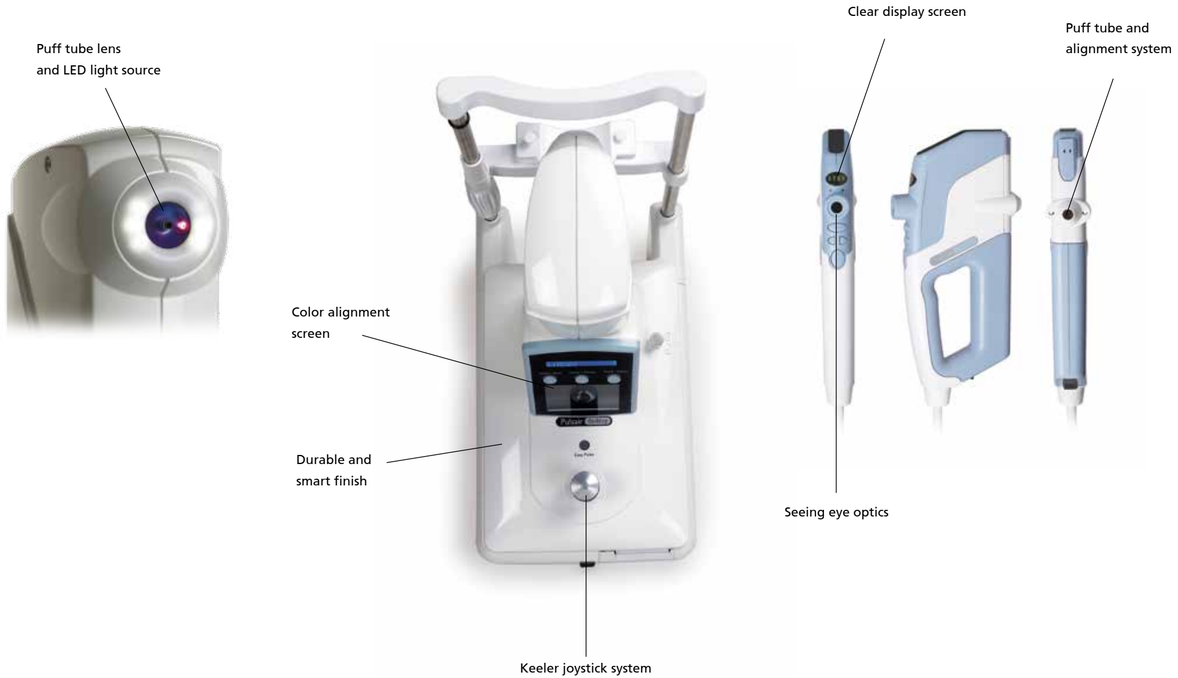
A small, space-saving footprint combined with the elegant, slim optical mainframe allows the Pulsair Desktop to blend seamlessly into the clinical environment. The openness of the design increases the confidence of both patient and clinician.

Comfort and speed

Less is more. This unit is uncomplicated and therefore is quick to use for the novice and professional alike. Taking control of tonometry has never been easier or faster. Clear user controls and a color video alignment screen combine to set a new standard in usability.

Sophisticated technology

Keeler Pulsair tonometers use advanced optical and sensor technology for positional detection and puff control. They have software controls to manage the measurement data; if two consecutive readings are within +/- 1mmHg of each other, the Pulsair will inform the user that sufficient readings may have been taken for that eye, saving precious time and increasing patient comfort.



Pulsair Desktop specifications

CALIBRATED RANGE	5mmHg to 50mmHg
DISPLAYED ACCURACY	Displayed accuracy to 1 decimal place, e.g., 12.3
DISPLAYED SCALE	Single-line 16-character alphanumeric display
WORKING DISTANCE	20mm
DIMENSIONS	475 x 410 x 245mm (H x D x W)
WEIGHT	16kg
COMPLIES WITH	Electrical Safety (Medical) BS EN 60601-1:2006. Electromagnetic compatibility EN 60601-1-2:2007. Ophthalmic instruments – fundamental requirements and test methods ISO 15004-1:2006. Optical radiation hazard ISO 15004-2:2007
POWER SUPPLY UNIT	Switch mode, (110–240V) +/- 1% multi plug type compliant to EN 60601-1, EN 61000-6-2, EN 61000-6-3
POWER SUPPLY OUTPUT	30VA (12V DC 2.5A)
FREQUENCY	50/60Hz
PRINTER	Thermal line printer
PART NUMBERS	2417-P-2000 – Pulsair Desktop tonometer 3104-L-8201 – Chinrest papers 2208-L-7008 – Printer paper roll

Pulsair intelliPuff specifications

CALIBRATED RANGE	5mmHg to 50mmHg
MEASUREMENT SCALE	mmHg (millimeters of Mercury)
DISPLAYED ACCURACY	0.1mmHg
DISPLAY	4-character dot matrix scrolling
FIRING SYSTEM	Automatic and objective
ILLUMINATION SYSTEM	LED infrared
WORKING DISTANCE	20mm
MOUNTING SYSTEM	Table/desktop/wall
BASE UNIT DIMENSIONS	260 x 215 x 220mm (H x D x W)
BASE UNIT WEIGHT	2.465Kg
HANDPIECE DIMENSIONS	315 x 150 x 46mm (H x D x W)
HANDPIECE WEIGHT	0.890Kg
CORD LENGTH	72 inches
PRINTER	Thermal line printer
PART NUMBERS	2414-P-2001 – Pulsair IntelliPuff Tonometer 2208-L-7008 – Printer paper roll

Applanation tonometers

The Goldmann principle is considered to be the most prevalent method of tonometry, as it is the most widely accepted method of determining the approximate intraocular pressure. Our manufactured applanation tonometers are designed and built to our exacting standards to give you the accuracy and quality you expect from a Keeler device. All KATs (Keeler Applanation Tonometers) are supplied with one reusable doubling prism, a calibration check bar, and either a Z-type (Zeiss), R-type, or T-type aluminium guide plate for slit lamp use.

D-KATs (Digital Keeler Applanation Tonometers)

- LED display for easy use in darkened environments
- Z-type, T-type, and R-type available
- Display reading up to 1 decimal point

D-KAT R-Type

D-KAT T-Type

D-KAT Z-Type

KAT R-Type (fixed)

KAT T-Type (take-away)

KATs (Keeler Applanation Tonometers)

- Reliable and repeatable applanation tonometry
- Goldmann applanation principle
- T-Type or R-Type available
- Designed to withstand the test of time and deliver reliable results year after year

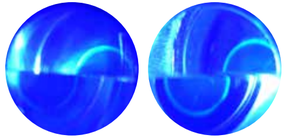
R-Type mounting post

T-Type guide plate

KAPs (Keeler Applanation Prisms)

Goldmann-style doubling prism for most applanation tonometers

Tonoclear – Disposable applanation prism*



Competitor miers

Tonoclear miers

Here at Keeler, we've been working hard to provide you with the safest tools to keep you and your patients as safe as possible. The Tonoclear is a Goldmann-style, single-use, applanation prism that provides a perfectly clear view of the miers during a routine examination.

Features

Superior image quality – Provides a clear view of the miers, improving accuracy and speed of measurements.

Compatibility – Works with all Goldmann applanation tonometers.

Sterility – Single-use and sterile; eliminates cross contamination. The Tonoclear can easily be thrown away after each use.

Easy packaging – Individually packed and sterilized. No assembly is required, making it easy and quick to install.

***Tonoclear can only be sold in the USA.**

Applanation tonometer specifications

MEASUREMENT FORCE	By leverage weight
INSTALLATION	
Keeler T-Type for tower illumination slit lamps	Fitted to the guide plate on the optical axis for the microscope and illumination unit arm
Keeler R-Type for tower illumination slit lamps	Mountable on a post fitted to the microscope optical body
MEASUREMENT RANGE	0–80mmHg (0–10.64 kPa)
APPROXIMATION OF THE IMPACT FORCE ON THE MEASUREMENT HEAD FOR A 0 TO 58,84 MN MEASUREMENT RANGE	Standard divergence: 0.49mN ≤ 3s ≤ 1.5% of nominal value
OPERATING TEMPERATURE RANGE	from 10°C to 35°C
MEASUREMENT ACCURACY	≤ 0.49mN
NET WEIGHTS	
Keeler T-Type	0.41kg (without accessories)
Keeler R-Type	0.69kg (without accessories)
PART NUMBERS	2414-P-2032 – D-KAT – Digital Keeler Applanation Tonometer (T-Type) 2414-P-2042 – D-KAT – Digital Keeler Applanation Tonometer (R-Type) 2412-P-2010 – D-KAT – Digital Keeler Applanation Tonometer (Z-Type) 2414-P-2030 – KAT – Keeler Applanation Tonometer (T-Type) 2414-P-2040 – KAT – Keeler Applanation Tonometer (R-Type)
ACCESSORIES	2414-P-7045 – Tonoclear single-use prisms (box of 100) 2401-P-8037 – KAT re-usable doubling prism 2414-P-5032 – KAT T-Type guide plate 2414-P-5042 – KAT R-Type mounting post 2414-P-5005 – Calibration arm assembly

AccuPen – Handheld applanation tonometer

The AccuPen handheld tonometer is ideal for screening IOP measurements in patients. Our gravity offset technology provides accurate IOP measurements with less calibration in any testing position. The AccuPen is accurate, easy to use, portable, and versatile, making it a must-have for any facility.

Accurate

The AccuPen's gravity offset technology provides precise IOP measurements with less calibration compared to other handheld tonometers. Micro-strain gauge technology, combined with proprietary algorithm, provides reproducible results.

Easy-to-use

An ergonomic design combined with sighting lines allows for easy visualization of the cornea, facilitating both centralization and perpendicularity. Contoured molding with large, visible LCD allows the AccuPen to be used ambidextrously and fit comfortably in any size hand.

Ready-to-use

Eliminates the constant need for "up, down, and around" calibration. Long-lasting lithium battery lasts for four to six months.

Portability

The AccuPen only weighs three ounces and comes with a custom, heavy-duty traveling case and lanyard for safe transportation.

Versatility

The gravity offset technology allows for fast measurements with patients in any position. Frees up valuable office space.

Smarter software

The AccuPen stores and averages nine measurements. The built-in IOP correction calculator adjusts IOP based on corneal thickness.

AccuTips

AccuTips are designed for use with the AccuPen as well as the Reichert Tono-Pen®. These tonometer tip covers are used to keep your patients safe from infection due to cross-contamination.

Individually packed

(Box of 100 or 300 sleeved tip covers).

Sleeved tip covers

(Buy in bulk with a box of 100).

Non-sleeved tip covers

(Bag of 600 or six boxes of 150 – 900 tip covers total).

AccuPen specifications

ACCURACY	+/- 2mmHg (compared to Goldmann Tonometer)
WEIGHT	3.0 oz.
DIMENSIONS	7¼" x 1¼"
TRANSDUCER DIMENSIONS	1.0mm diameter
MEASUREMENT RANGE	5–60mmHg
POWER SOURCE	3.6v lithium battery
ITEM NUMBER	24-3000

Pachymetry

Handheld pachymeter

The PachPen is the perfect tool for testing a patient's corneal thickness with accuracy, portability, and comfort. The superior ergonomic design fits comfortably in any hand, offering a major advantage from other handheld models.

Accurate

The PachPen's 65MHz sampling probe ensures precise measurements and uses digital signal analysis to analyze wave patterns and to eliminate non-perpendicular measurements.

Easy-to-use

An ergonomic design, combined with sighting lines, allows for easy visualization of the cornea, facilitating both centralization and perpendicularity. The contoured molding with a large, visible LCD screen allows the PachPen to be used ambidextrously and fit comfortably in any size hand.

Ready-to-use

Digital ultrasound analysis eliminates the need for calibration. The long-lasting battery will last for four to six months.

Portability

The PachPen only weighs three ounces and comes with a custom heavy-duty traveling case and lanyard for safe transportation.

Versatility

The ergonomic design allows you to take fast measurements with your patient in any position. This frees up valuable office space.

Smarter software

The PachPen stores and averages nine measurements. It contains a built-in IOP correction calculator, which adjusts the IOP based on corneal thickness.

PachPen specifications

ACCURACY	+/- 5 Microns
WEIGHT	3.0 oz.
DIMENSIONS	7¼" x 1¼"
PROBE DIMENSION	2.5mm diameter
MEASUREMENT RANGE	300–999 Microns
POWER SOURCE	3.6v lithium battery
ITEM NUMBER	24-5100

Ultrasound Imaging

Connect software

Connect is a single application solution for managing your ultrasound patient workflow, including A-Scan, B-Scan, and/or UBM. The software is a powerful and portable diagnostic tool designed to meet the demands of today's ophthalmic practice. The A-Scan, B-Scan, and UBM probes plug directly into a PC, laptop, or tablet device and offer flexible data transfer to meet your clinical needs. All patient data is easily updated to electronic medical records and can be stored, emailed, or printed quickly. Reports are generated with just a few clicks of a button. Take the Connect anywhere with no software licenses, allowing you to load the software in multiple exam rooms and offices. Protect your investment with easily upgradeable software, and streamline your patient data by sharing information between each system.

It's all connected

Connect is the only system to use the same probes as our 4Sight, boasting reverse compatibility and industry-leading options for portability and functionality. Both systems also use the same graphical user interface, eliminating the learning curve and making the transition seamless when switching from one system to the other.

CONNECT™

A-Scan Plus Connect

Features:

- Immersion and contact modes
- Industry-leading resolution
- IOL formulas including the Hoffer Q, SRK/T, Holladay I, Haigis, SRK II, Binkhorst II, as well as new post-refractive formulas
- Customizable lens, ACD and VCD materials for new emerging implant/chamber materials
- Optimized lens constants for superior surgical outcomes
- Easy to set up defaults, smooth customer interface, and automatic EMR exports to decrease examination time, increase patient throughput, and increase profit
- Automatic alignment detection and sclera recognition help eliminate marginally aligned scans
- Seamless workflow integration with IOLMaster 500 from ZEISS
- Fully upgradeable software
- Unlimited data storage, based on PC/network storage
- EMR capability with automatic transfer of data
- DICOM[SM] ready
- Unlimited IOL lens groups
- Piggyback calculation ability for ICL implant patients
- Rx surgery calculations for an aging Lasik population
- PC-based platform
- PDF reporting

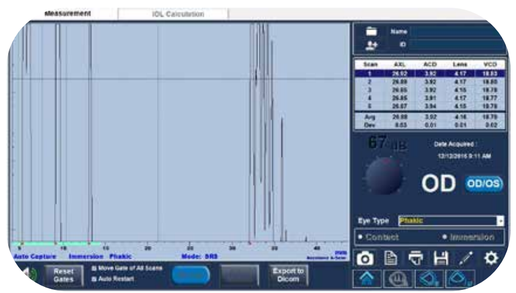
Specifications

WEIGHT	0.43Kg (15.1 oz.)
DIMENSIONS	13.75cm x 9.50cm x 6.40cm (5.4" x 3.7" x 2.5")
METHODS	Immersion or contact
DEFAULT EYE TYPE SETTINGS	Phakic, Dense Cataract, Silicone Filled, Pseudo PMMA, Pseudo Silicone, Pseudo Acrylic, Aphakic
CUSTOM EYE TYPE SETTINGS	Unlimited with independent ACD, lens, VCD velocities
MEASUREMENTS	ACD, lens thickness, VCD, axial length
CAPTURE MODES	Automatic or manual
FREQUENCY	10MHz
ELECTRONIC RESOLUTION	0.016mm
CLINICAL ACCURACY	0.1mm
ITEM NUMBER	24-4400

DATA POINTS PER WAVEFORM	4,096
MEASUREMENT RANGE	0.01–63.6mm
ADJUSTABLE GAIN	30–100dB
IOL FORMULAS	Hoffer Q, Holladay I, SRK/T, Haigis, SRK II, Binkhorst II
POST-REFRACTIVE FORMULA METHODS	Clinical history, Contact Lens, Shammas Clinical
IOL DATA STORAGE	Unlimited, based on PC/network storage
PATIENT DATA STORAGE	Unlimited, based on PC/network storage
DATA EXPORT	EHR compatible, network ready
PRINTER	Any supported by PC
ACCESSORIES	USB footswitch, CD containing A-Scan Plus Connect software and manual, test block

Improved efficiency

Easy-to-use interface for fast scan capture.



Trusted accuracy

Trusted reliability and accuracy with industry-leading resolution.

B-Scan Plus

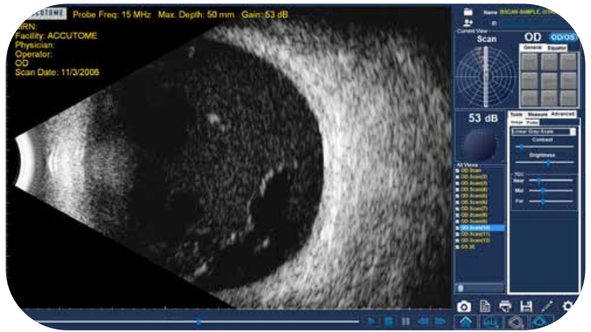
The B-Scan Plus proprietary software combined with unique probe electronics make it the premier portable high-definition B-Scan. While developing the B-Scan Plus software, we visited many of the top facilities around the world. The results are a reliable and easy-to-use unit, which can quickly scan patients and transfer information.

Features

- Superior Image – 0.015mm image resolution is among the highest in the medical industry
- Improved probe providing shaper, more focused images due to the elimination of signal loss
- Unsurpassed data analysis contains 12 useful measuring calipers, including six lines, two areas, two angles, and two arrows
- Optical zoom technology allows for 2x full-image zoom without distortion of real-time or captured scan
- The portable probe can plug into any Windows-based laptop or PC
- Adjustable film loops that range from 2 to 17 seconds
- Unlimited adjustable and transferable video recording
- Fully adjustable gain control before, during, or after scan
- Connect software allows the B-Scan Plus to integrate the option for A-Scan and UBM modes for improved patient workflow
- Easy to set up defaults, smooth customer interface, and automatic EMR exports to decrease examination time, increase patient throughput, and increase profit
- Unsurpassed compact file storage
- EMR compatible
- DICOM ready
- Multiple measuring velocities for ACD/VCD
- PDF reporting
- Archive data on a network or external hard drive

Specifications

WEIGHT	6 oz.
DIMENSIONS	7” long x 1.25” diameter
FREQUENCY	12 or 15MHz
AXIAL RESOLUTION	0.015mm electronic
LATERAL RESOLUTION	0.085mm electronic
GAIN	0–112dB
ADJUSTABLE GAMMA	Linear, S-Curve, Log, Color
SCANNING ANGLE	60°
FIELD OF VIEW	12MHz = 64mm or 15MHz = 52mm
FRAME RATE PER SECOND	15
SAMPLING RATE	2,048 (points per line)
VECTORS PER FRAME	256
FOCAL POINT	22mm
FOCAL ZONE	20mm
TGC	Yes
FROZEN IMAGE GAIN ADJUSTMENT	Yes
ZOOM	2x optical zoom, 8x maximum



REPORTS	Integrated Microsoft Word
SNAPSHOT FORMAT	.jpeg, .bmp, .png, .tiff, .gif
DATA ARCHIVE/EXPORT CAPABILITY	Yes
MAX. NUMBER OF FRAMES PER SCAN	256
SIZE OF CINE LOOP	16–128MB
MEASUREMENT CALIPERS	6-line, 2 area, 2 angle, 2 arrows
ACCESSORIES	Durable traveling case, probe holder, footswitch
ITEM NUMBER	24-6100

UBM Plus

The UBM Plus probe has a guarded tip to prevent damage to both the patient and the probe. The unit is used for anterior segment imaging. This unit is an incredibly portable device because the 48MHz probe plugs directly into any Microsoft Windows laptop or desktop computer. The UBM features an all-in-one probe design to eliminate signal loss and provide the sharpest images possible.

Features

- High-definition imaging – Detailed structure definition, including cornea, iris, ciliary body, zonules, crystalline lens, and intraocular lens, as well as pathologies
- State-of-the-art probe design – Sharper, more focused images due to the elimination of signal loss
- Unsurpassed data analysis – Contains tools for measuring sulcus-to-sulcus, anterior chamber depth, positioning of intraocular lenses, and filtration angle of the eye
- Easy-to-set-up defaults, smooth customer interface, and automatic EMR exports that decrease examination time, increase patient throughput, and increase profit
- Adjustable video loop
- Full upgradeable software
- EMR compatible
- DICOM ready
- Multiple measuring velocities for ACD
- PDF reporting
- Fully adjustable gain-control before, during, or after scan
- Data archive – Network or external hard drive

Specifications

WEIGHT	6 oz.
DIMENSIONS	7" long x 1.25" diameter
FREQUENCY	48MHz
AXIAL RESOLUTION	0.015mm electronic
LATERAL RESOLUTION	0.05mm electronic
GAIN	0–112dB
ADJUSTABLE GAMMA	Linear, S-Curve, Log, Color

SCANNING ANGLE	30°
FIELD OF VIEW	32mm
FRAME RATE PER SECOND	10
SAMPLING RATE	2,048 (points per line)
VECTORS PER FRAME	256
FOCAL POINT	13mm
FOCAL ZONE	4mm
TGC	Yes
FROZEN IMAGE GAIN ADJUSTMENT	Yes
ZOOM	8x maximum
REPORTS	Integrated Microsoft Word
SNAPSHOT FORMAT	.jpeg, .bmp, .png, .tiff, .gif
DATA ARCHIVE/EXPORT CAPABILITY	Yes
MAX. NUMBER OF FRAMES PER SCAN	256
SIZE OF CINE LOOP	16–128MB
MEASUREMENT CALIPERS	4 lines, 2 areas, 2 angles
ACCESSORIES	Durable traveling case, probe holder, footswitch, wireless mouse, 18mm and 20mm Immersion shells
ITEM NUMBER	24-6300-G

4Sight – See it from every angle

A-Scan, B-Scan, UBM, and Pachymeter in one, easy-to-use platform

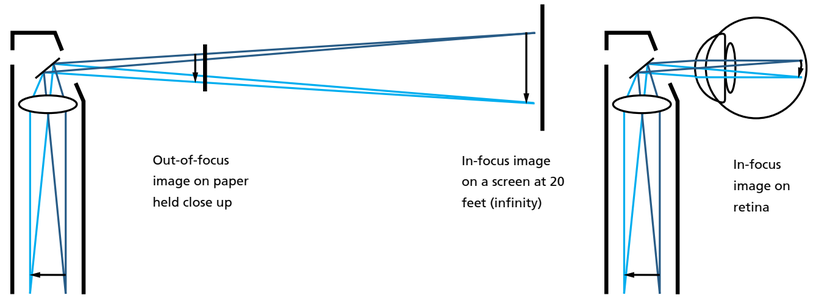
We understand the demands on today's busy clinics, which is why the 4Sight is designed to meet those needs. The 4Sight is a single solution for all ophthalmic ultrasound imaging at an affordable price. The A-Scan, B-Scan, UBM, and pachymeter have all been combined into one unit to eliminate wasted time switching modalities. The 4Sight is accurate, efficient, and affordable, making your job easier.

Features

- Modular platform allows for mix-and-match options with a combination specific to your needs
- DICOM worklist compatible
- Easy-to-use software for all probes
- User-friendly interface with touchscreen capability
- Unsurpassed image quality
- Printer compatibility
- Mobility of probes; can be used with 4Sight or laptop
- Live help and dependable support for the life of the product
- Proprietary signal processing
- Industry-leading clinical accuracy
- Financing options available upon request

Handheld Instruments

A combination of optical perfection, superb ergonomics, and versatile features makes all of our handheld instruments the ideal choice. From basic examination to detailed diagnosis, there is a Keeler hand instrument for you. The next couple of pages will guide your choice, but first, please read on to discover the standard features and benefits shared by all Keeler ophthalmoscopes.



Keeler optics – the more you see, the better the diagnosis

Our ophthalmoscopes are adjusted for perfect focus where it's needed: in the eye, not on paper. Along with our wide-angle light beam and individual mirror alignment, this ensures that you will see the clearest view of the retina, regardless of the patient's pupil size.

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 larger field of view, while the smooth line surfaces provide a non-threatening aesthetic.

Keeler slimline handles

Our handheld instruments have a slimline, lightweight handle with

Light, tough, and built to last

All of our 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 LED illumination is fully adjustable from zero. This ensures the comfort of your patients and the best possible diagnosis.

Reflex-free images

Individually controlled optics reduce the effect of corneal reflex while minimizing shadows and providing clearer retinal visualization.

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 finger. No need to pull away from the patient – the Professional makes routine examinations far easier.

LED illumination

We recognize that illumination is of fundamental importance to good diagnoses. That's why we have selected LED illumination for our ophthalmoscopes. This brighter, whiter, and longer-lasting light will meet any diagnostic challenge! With LED, you have the power to diagnose even through cloudy media. LED technology will last throughout your career.

Positive action maywheel

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

Swing-over filter

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

Brow rest

The integral soft brow rest allows for easy positioning and protects your lenses (if you wear glasses).

+29D to -30D
in single diopter

For more information on icons, please refer to the guide on page 75.

Pocket ophthalmoscope

Portable and compact

Full diagnostic capability in a compact instrument makes the Pocket ophthalmoscope ideal for the practitioner on the move.

Portable

An ideal choice for domiciliary and ward use or as a backup.

+/- 20D range
of powers

Pocket clip

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

Specialist ophthalmoscope

The choice of the ophthalmic profession

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

Exceptional quality

The Specialist ophthalmoscope is perfectly balanced for precise ocular examination. The comprehensive lens range 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.

Pupillometer

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

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 optimizes the field of view and guarantees increased comfort for both practitioner and patient.

+44D to -45D
in 1D steps

Jazz ophthalmoscope set

Jazz otoscope

- Fiber-optic otoscope
- Brilliant LED illumination gives the best possible view and a longer battery life for a greener product
- 3x magnifying lens

Jazz ophthalmoscope

- Brilliant LED illumination
- Renowned high-performance Keeler optics with aspherical lens

+/- 20D range of powers

For more information on icons, please refer to the guide on page 75.

Interchangeable color rings

Set consists of one handy package with two handles

Finoff transilluminator

For use when the presence of intraocular tumors in patients 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.

Professional LED retinoscope

Lifetime warranty

Our patent-pending LED retinoscope will last a lifetime, and comes with a warranty to match.

BCS technology

Easiest and most accurate refraction from the brightest illumination, increased contrast, and sharpness in your hands.

Longest battery life

Practice makes perfect, and our LED technology will increase your on-time up to 300%, as compared to non-LED technology.

Double neutralization check

The Professional Combi (bulb) retinoscope allows for the user to switch from spot to streak with the facility to double-check neutralization in both modes.

Easy access control

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

A choice of apertures is included to optimize brightness or resolution of the retinal reflex in 4mm or 1.7mm.

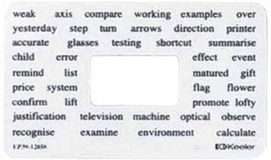
The Professional LED retinoscope comes with easily interchangeable soft brow rest for glasses wearers.

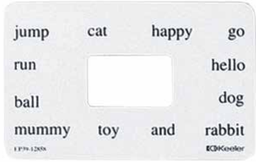
Light output

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

Near point cards

Fixation cards for dynamic retinoscopy are included. Simply clip on and off for easy use.





Near point cards

Accessories and chargers

Color-coded grips

Add a bit of color to your diagnostic tools with color-coded grips. Available in four colors, 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.

Keeler slimline handles

The lightweight, perfectly balanced, smooth handle is made from high-quality chrome, eliminating cross-infection.

Keeler handle stand adaptor

The small, sleek adaptor converts your Keeler slimline handle to charge in any standard refraction stand.

LED displays

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

Metal hydride/lithium Duo charger

The compact charger takes two handles and fits neatly into your immediate testing environment, allowing easy access to your handheld instruments. It can be desk or wall mounted.

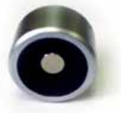
Metal hydride/lithium Mini charger

This 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 while the battery is charging. The Duo and/or Mini charger will charge your device within an hour.

Slimline handles

Duo charger

Mini charger



Stand adaptor

Part numbers

Professional ophthalmoscope

- 1128-P-1004 – Professional (head only) with 3.6v bulb
- 1128-P-1007 – Professional (head only) with LED

FOR USE IN REFRACTION STAND, ORDER HEAD + THE FOLLOWING HANDLE:

- 1911-P-1244-500 – Keeler handle with metal hydride battery and stand adaptor

Pocket ophthalmoscope

- 1102-P-1041 – Pocket (head only) with "AA" battery handle and 2.8v bulb

Specialist ophthalmoscope

- 1132-P-1050 – Specialist (head only) with 3.6v bulb
- 1132-P-5000 – Specialist (head only) with 2.8v bulb
- 1132-P-1165 – Specialist (head only) with LED
- 1311-P-5041 – Presbyopic + lens to view dioptric correction

FOR USE IN REFRACTION STAND, ORDER HEAD + THE FOLLOWING HANDLE:

- 1911-P-1244-500 – Keeler handle with metal hydride battery and stand adaptor

Jazz ophthalmoscope

- 1102-P-1105 – LED pocket ophthalmoscope
- 1702-P-1096 – LED pocket diagnostic set

Finoff transilluminator

- 2903-P-7001 – 3.6v head
- 2903-P-1118 – 2.8v head

Professional Retinoscope

- 1302-P-1012 – LED Retinoscope (head only)
- 1302-P-1007 – Combi Retinoscope (head only) with 3.6v bulb

FOR USE IN REFRACTION STAND, ORDER HEAD + THE FOLLOWING HANDLE:

- 1911-P-1244-500 – Keeler handle with metal hydride battery and stand adaptor

Chargers

- 1941-P-1368 – Metal hydride/lithium Duo charger
- 1941-P-1341 – Metal hydride/lithium Mini charger

Accessories

COLOR CODED GRIPS

- 1901-P-7028 – Pink
- 1901-P-7036 – Green
- 1901-P-7044 – Blue
- EP29-05365 – Black

NEAR POINT CARDS FOR RETINOSCOPY

- 1321-P-7021 – Near point cards (set of 3)

SLIMLINE HANDLE ADAPTOR AND BATTERY

- 3301-P-7410 – Stand adaptor
- 1919-P-7149 – Metal hydride battery
- EP39-18918 – Lithium battery

Sight and Color Vision Testing

Sheridan Gardiner test

A well-established test designed for children but suitable for disabled people, those with learning difficulties, or patients who do not share a common language with the examiner.

PART NUMBERS

- 2204-P-1004 – Sheridan Gardiner Test without orthoptic booklets
- 2204-P-1063 – Sheridan Gardiner Test with orthoptic booklets

38- and 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 or 24-plate for quick screening.

PART NUMBERS

- 2206-P-1008 – 38-Plate Ishihara color vision test
- 2206-P-1016 – 24-Plate Ishihara color vision test

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.

PART NUMBER

- 2206-L-1057 – 3rd Edition City University Color Vision Test

Maddox Wing Test

A convenient, handheld, quick-and-efficient near test for heterophoria, which is measured on the red vertical scale. Esophoria and exophoria are measured by the white horizontal scale. Cyclophoria may be assessed by moving the red arrow pointer parallel to the horizontal scale.

PART NUMBER

- 2301-P-1022 – Maddox Wing Test

Amsler Manual

Assists in early recognition of changes in the macula and foveal areas. Only six patient responses are required for diagnosis of functional disturbances, from small scotoma to distortions. Full instructions include the interpretation of results.

PART NUMBERS

- 2215-P-1034 – Amsler Manual
- 2215-P-7050 – Amsler Recording Charts

Halberg Trial Lens Clips

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

PART NUMBER

- 2207-P-1026 – Halberg Trial Lens Clips with case

Surgical Loupes

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

Galilean system

SuperVu SL (galilean system)

2.5x magnification

The true benefit of this system is its ease of use. Movement while maintaining focal clarity is made possible due to a superior depth of field. The lightweight aluminum 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.

SuperVu SL Hi-Res (galilean system)

3.0x magnification

SuperVu SL Hi-Res loupes provide greater definition than a standard galilean with 15% increased field of view. The Hi-Res five element system provides a true 3x magnification in a lightweight system.

Prismatic system

SuperVu XL (prismatic system)

3.5x, 4.5x, and 5.5x magnification

With 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 antireflective coating to produce a superior image. Ideal for surgeons who require higher magnification.

LED Illumination

The K-LED illumination system clips quickly and easily onto the loupes bar. It provides 34,000 lux of homogenous, coaxial, white LED illumination. The lightweight (17g) LED offers 50,000 hours of life. The lithium battery will last for four hours before it needs charging.

Sport frames

Stylish, comfortable, and attractive

Sport frames are available in a choice of bright colors, as shown. They can be worn over your own glasses, or your prescription can be incorporated into the supplied holder. The choice of color is black, blue, and red. All of our loupes are available to be purchased with sport frames.

Designed for comfort

Choose from the frames or a headband mounted system to mount your loupes. Adaptable to all prescriptions.

Part Numbers

Keeler Loupe systems are supplied in a soft carrying case and include protective caps, sterilizable flip lever, and cleaning cloth.

2.5x Standard

- 2112-P-1006 – 13" Working Distance (34cm)
- 2112-P-1007 – 16" Working Distance (42cm)
- 2112-P-1008 – 18" Working Distance (46cm)
- 2112-P-1009 – 20" Working Distance (50cm)

3.0x Mag – Hi-Res

- 2112-P-1050 – 13" Working Distance (34cm)
- 2112-P-1051 – 16" Working Distance (42cm)
- 2112-P-1052 – 18" Working Distance (46cm)
- 2112-P-1053 – 20" Working Distance (50cm)

3.5x Mag

- 2113-P-6004 – 13" Working Distance (34cm)
- 2113-P-6021 – 16" Working Distance (42cm)
- 2113-P-6022 – 18" Working Distance (46cm)
- 2113-P-6007 – 20" Working Distance (50cm)

4.5x Mag

- 2113-P-6008 – 13" Working Distance (34cm)
- 2113-P-6025 – 16" Working Distance (42cm)
- 2113-P-6010 – 18" Working Distance (46cm)
- 2113-P-6011 – 20" Working Distance (50cm)

5.5x Mag

- 2113-P-6012 – 13" Working Distance (34cm)
- 2113-P-6029 – 16" Working Distance (42cm)
- 2113-P-6014 – 18" Working Distance (46cm)
- 2113-P-6015 – 20" Working Distance (50cm)

ORDER FRAMES SEPARATELY

Small sport frames (130mm temples)

- 2199-P-1982 – Black
- 2199-P-1983 – Blue
- 2199-P-1984 – Red

Medium sport frames (135mm temples)

- 2199-P-1500 – Black
- 2199-P-1519 – Blue
- 2199-P-1527 – Red

Large sport frames (150mm temples)

- 2199-P-1543 – Black
- 2199-P-1551 – Blue
- 2199-P-1578 – Red

K-LED system

- 2004-P-1007 – K-LED with (2) batteries and (1) twin charger tray
- 2004-P-1012 – K-LED with (1) battery and (1) charger tray

Double-charger system

Single-charger system

Cryo Surgical Systems

We have 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.

Cryomatic MK II

Smart technology

Electronic communication between the console and any probe that is connected to it allows for optimum operating parameters and self-adjustment. In other words, the console auto-configures to each probe's characteristics. The main advantage of this is that there is no longer a need for manual setups before or during a procedure. The gas pressure will also always be set automatically.

Back-flush facility

During purging, and about 20 seconds after the footswitch is released, the gas in the system reverses its flow, but at a lower pressure. This changed direction of gas after a freeze moves any debris or moisture that may be accumulating – eliminating any risk of problems during surgery.

Perfection evolved

Building on the exceptional reliability of its predecessor, the Cryomatic MK II delivers quality and versatility when using either disposable or reusable probes. The unit's new coupling system allows you to connect either a single-use disposable probe or a reusable probe without the need for an adaptor. The integral software automatically detects the type of probe in use and adjusts the unit accordingly, meaning the unit is ready to be used in a matter of minutes.

No more sterilization concerns

The single-use, sterile, retinal probe is the perfect answer when a probe is demanded on short notice. Lightweight and comfortable to use, the disposable probe is a must-have to manage your infection-control processes and cut time and costs.

Single-use probe

Part Numbers

Cryo

- 2509-P-1010 – Cryomatic MK II console with footswitch, high-pressure hose, exhaust hose, (specify CO2, or N20 gas use when ordering), and user manual

Probes

DISPOSABLE – NOT CURRENTLY FOR SALE IN THE USA

- 2509-P-8033 – Single-use, sterile retinal probe (box of 10)

NON-DISPOSABLE

- #1: 2509-P-8020 – Standard retinal probe
- #2: 2509-P-8030 – Compact retinal probe
- #3: 2509-P-8021 – Extended retinal probe
- #4: 2509-P-8022 – Mid-Reach retinal probe
- #5: 2509-P-8025 – Glaucoma probe
- #6: 2509-P-8024 – Curved cataract probe
- #7: 2509-P-8023 – Intra-vitreal probe
- #8: 2509-P-8026 – Collins trichiasis probe

Probe with ice

Supplies

- 3304-K-1085 – Cryomatic stand
- 1899-K-1163 – Chan wrist rest with pillow
- 1899-K-1219 – Surgical foam headrest
- 1899-K-1243 – Nevyas drape supports (box of 24 – minimum order of 4 boxes)
- 1899-K-1112 – Machemer stool

Cryomatic stand

Surgical Room Supplies

Chan wrist rest - Item #1163

The Chan wrist rest 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.

Surgical foam headrest - Item #1219

The surgical foam headrest automatically secures the patient's head, while making them 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.

Nevyas drape support - Item #1243

The disposable Nevyas drape support is the simple and inexpensive way to establish a zone of comfort for your patients during ophthalmic surgery that requires draping over the nose and mouth. Packaged in boxes of 24, minimum order of 4 boxes.

Machemer stool - Item #1112

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 the seat swivel. The seat is constructed of one continuous piece of heavy sculptured foam and is covered in fabric without seams. This unique design reduces pressure on the sciatic nerve and remains comfortable through even the longest procedures.

Bulbs and Accessories

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 fullest. All Keeler instruments use genuine halogen, xenon and LED 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).

LED module for retinoscope

- 1305-P-7000

Specialist/Vista ophthalmoscope bulb

- 1011-P-7034

Pocket ophthalmoscope bulb

- 1011-P-7050

Professional/Vista Streak Retinoscope bulb, 35mm

- 1013-P-7008 – 2.8v Professional
- 1013-P-7009 – 3.6v Professional

PREVIOUS MODEL RETINOSCOPES, 20MM

- 1013-P-7002 – 2.8v
- 1013-P-7003 – 3.6v

Professional ophthalmoscope bulb

- 1011-P-7114

Combi/Vista spot retinoscope bulb, 35mm

- 1013-P-7006 – 2.8v Professional

PREVIOUS MODEL RETINOSCOPES, 20MM

- 1013-P-7000 – 2.8v
- 1013-P-7001 – 3.6v

All Pupil II LED module

- 1012-P-7008

All Pupil II and Vantage bulb

- 1012-P-7003

Spectra bulb

- 1299-P-7075

Fison bulb

SUPPLIED INDIVIDUALLY

- 1012-P-7000

Vantage Plus LED module

- 1012-P-5276

Wide-angle twin-mag ophthalmoscope bulb

- 1012-P-7004

Pulsair bulb for Mark 1, 2000, 3000, and EasyEye

- 1024-P-7156

Vantage Plus bulb

- 1012-P-7006

PPE – We are here for you and your patients

Here at Keeler, we have been working hard to provide the products needed to keep both you and your patients protected and safe.

KN95 Masks

Item #: AX17399 10 per package

- Virus protection, anti-dust, smoke, gas, allergies, and germs
- FDA and CE certified manufacturer
- Non-woven polypropylene

***Image may not represent the actual mask you receive.**

3-Layer Medical Mask

Item #: AX17400 50 per package

- Anti-dust, smoke, gas, allergies, and germs
- FDA cleared
- Disposable material
- Effectively isolating bacteria, pollen, dust

FC Clean Reusable Protective Mask (non-medical)

Item #: AX17438

- Outer layer is made of cleanroom compatible fabric
- The inner layer is made of antibacterial fabric
- Antibacterial effect remains even after washing more than 50 times
- 5 year shelf life
- Measures 9cm x 18cm

3-Ply Youth Mask

10 per package

- Kids 3-layer mask with ear loops
- Anti-fog mask
- 99.8% bacterial filtration efficiency.

AX17496B Blue mask

AX17496P Pink mask

Ear Saver Mask Adjuster

Item #: AX17478 10 per package

- Allows user to adjust the tightness and fit of the ear loops on the mask to their desired fit and obtain a proper seal
- Fits any mask with elastic earloops

Soho Fresh Hand Sanitizer

Item #: AX17445

- 33.81oz (1 L) squeeze top bottle
- Contains 70% alcohol
- Kills 99.99% of germs

Availability is limited and on a first come, first serve basis.

Due to high demand, these items are non-returnable.

GSL Organics Hand Sanitizer

Item #: AX17404

- 6oz. gel with pump
- Concentrated with 80% grain alcohol
- Non-drying and moisturizing with essential oils, glycerin, aloe vera, and grain alcohol to kill germs

Instant Gel Hand Sanitizer

Item #: AX17450

- 16oz. pump bottle
- Contains 75% alcohol
- Kills 99.99% of germs

X-Large Slit Lamp Breath Shield

Item #: EP39-80753

- Clinician and patient protection while still allowing easy use of the slit lamp
- Goes between the binoculars and magnification block
- Fits Keeler slit lamps and any slit lamp with a 70mm diameter dovetail joint
- Made of 1.5mm thick clear plastic
- Measures 35cm x 30cm (13.7" x 11.8")

Large Fitted Slit Lamp Breath Shield

Item #: AX17415

- Can also be used on our portable slit lamps
- Clinician and patient protection while still allowing
  easy use of the slit lamp
- The shield goes around the oculars
- Fits all slit lamps
- Made of 1.5mm thick clear plastic
- Measures 7.5"H x 6"W
- Occular cut out allows for full pupilary distance adjustments

Keeler BIO Face Shield

Item #: AX17448

- Scratch and defect free
- Fits Keeler All pupil II and Vantage Plus
- Shield is held in place by the snaps on the headband foam liner
- Made of 0.5mm-0.8mm thick clear polyethylene terephthalate
- Measures 275mm W x 190mm H (10.8" W x 7.5" H")

The Phoropter Shield™

Item #: AX17447

- Designed to fit with most A style phoropters
- Does not interfere with the use of the phoropter, or touching the nose of the patient, even when the PD is adjusted
- Made of 30mil polycarbonate composition allowing for easy installation and removal
- Measures approximately 7.5" x 7.5"

Face Shield
Item #: AX17416

- 12.387"W x 10.5"H clear shield covers the whole face
- Has 10.6"W x 1"H headband

Virtua™ Scratch-Resistant Safety Glasses
Item #: AX17437

- Clear and scratch-resistant lens
- Frameless, wraparound frames
- Universal size

Ergonomic PVC Anti Fog Safety Goggles
Item #: AX17449

- Clear safety polycarbonate lens
- Anti Fog and saliva droplet blockers
- UV400
- Adjustable comfort strap

Betco Fight Bac RTU

- Quaternary-based, anti-bacterial cleaner
- Cuts through grease, heavy soil, and filth
- Quick drying times.

AX17433	32oz. Bottle
AX17433J	Trigger spray with straw

MASK-IT Eye Patch
Item #: AX17024 500 per package

- Disposable and adjustable eye patch
- Pre-slit patch creates various cone depths for eye lashes

Non-Contact Infrared Digital Thermometer
Item #: AX17396

- Measures in 1-3 seconds
- Accurate readings through the activation
- 2 temperature units for conversion (Fahrenheit or Celsius)
- Can be used more than 100,000 times with two AA batteries (not included)

Level 2 SMS Gowns

- Medical level 2 SMS gowns
- Single-use
- Made from 3- layer SMS fabric.

AX17489	Small
AX17490	Medium
AX17491	Large
AX17492	X-Large

For more information, please contact us at 800.523.5620.

For more medical supply products and pharmaceutical products, please visit our website at www.KeelerUSA.com or give us a call at 800-523-5620!

Product Icon Guide

Throughout this catalog, you will find these icons underneath or beside specific products to showcase the different features of each. Here is a guide to what each one means for you to reference.

Semi -circle – Provides a combination of depth perception and field of view.

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.

Neutral Density (0.8) – Reduces the amount of light patients receive equally across the spectrum, which is perfect for light-sensitive patients.

Large aperture – Ideal when examining fully dilated pupils.

Intermediate aperture – Permits easier access through an undilated pupil and in peripheral examination. Particularly useful in pediatric examinations.

Small aperture – Ideal for undilated pupils.

Adjustable aperture – Ideal for all pupil sizes.

Diffuser – Softer light patch to be used with patients uncomfortable with a concentrated light. Perfect for pediatric examinations.

Pupillary Distance – Distance between users pupils.

Diopter range – Single-step diopter changes to compensate for patient and examiner refractive error.

Portable – Convenient for transportation.

Long-lasting – LED and lithium polymer battery can provide up to six hours of use on a single charge.

Lightweight – Stronger and lighter materials allow for comfort without sacrificing quality.

Clear filter – Allows user to view the eye in crystal clear detail.

Red-free – 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 with fluorescein dye for angiography.

Bright – 25% brighter than standard bulbs.

LED – Long-lasting white illumination that is bright and allows you to see better details.

Keeler
3222 Phoenixville Pike
Building 50
Malvern, PA 19355 USA
Toll Free: 1-800-523-5620
Tel: 610-353-4350
Fax: 610-353-7814
Email: customerservice@keelerusa.com
Website: www.keelerusa.com

Keeler Ltd.
Clewer Hill Road, Windsor
Berkshire, SL4 4AA, UK
Tel: +44 (0) 1753 857177
Fax: +44 (0) 1753 827145
Email: info@keeler.co.uk
Website: www.keeler.co.uk

Keeler
– A world without vision loss –

A Halma company

Rev: 03082021