



Vantage Plus

Indirect ophthalmoscopy enhanced

Keeler
— A world without vision loss —

Vantage Plus

The Keeler Vantage Plus is designed to save time while providing balanced comfort for extended use in a range of clinical applications through the binocular optical view used in conjunction with a condensing lens.

An Indirect Ophthalmoscope is an AC or battery-powered device containing illumination and viewing optics; and it is intended to be used to examine the cornea, aqueous, lens, vitreous and retina of the eye. The device is intended for use by a trained healthcare professional, and is mounted on the user's head.



Key features

- Renowned Keeler binocular optics
- Save time during examination with the automated Intelligent Optical System
- Enhance your view by 1.6x with the Hi Mag Lens attachment

Superior optics without compromise on balance and comfort



High contrast optics

The compact and high contrast viewing optics use natural LED illumination that gives you brilliantly crisp, glare free, superior views of the retina every time.

Filters and Apertures

IR/UV filters are built into the optics of the Vantage Plus with optional filters and a choice of 3 apertures plus a soft light diffuser.

P D Range: 48 - 76mm



Vantage Plus filters

Part Numbers

Vantage Plus Indirect Ophthalmoscope

| | |
|-------------|--|
| 1205-P-1010 | Vantage Plus LED Corded |
| 1205-P-1011 | Vantage Plus LED Corded Kit A |
| 1205-P-1014 | Vantage Plus LED Wireless In Carton |
| 1205-P-1015 | Vantage Plus LED Standard Kit A |
| 1205-P-1016 | Vantage Plus LED Slimline Kit A |
| 1205-P-1019 | Vantage Plus LED Standard with Charger |
| 1205-P-1020 | Vantage Plus LED Slimline with Charger |
| 1205-P-1022 | Vantage Plus LED Wireless Student Kit |
| 1205-P-2007 | Vantage Plus LED Slimline Student Kit |

Accessories

| | |
|-------------|--|
| EP39-53748 | Eye Lens Plano (qty 2) |
| EP39-53799 | Rubber Eye Cap (qty 2) |
| 1012-P-5241 | Bulb |
| 1201-P-6067 | Large Depressor |
| 1201-P-6075 | Small Depressor |
| 1202-P-7192 | Hi Mag Lens |
| 1205-P-7034 | Binocular Indirect Face Shield |
| 1919-P-1013 | Standard Battery Pack |
| 1919-P-5338 | Slimline Battery for wireless Vantage Plus |
| 1941-P-5335 | Standard Charger |
| 1945-P-5019 | Slimline Charger for wireless Vantage Plus |
| 2105-K-1159 | Volk 20D Black Condensing Lens |
| 2199-P-7136 | Lens Cloth |
| 2415-P-7001 | Instructions for Use |
| 3412-P-7000 | Indirect Carrying Case |



High contrast Keeler optics

Unique benefits

Bright white LED illumination for a superior retinal view

The natural LED cooler colour provides brighter, whiter illumination, longer battery life, freedom from purchasing bulbs and a life expectancy of up to 10,000 hours.

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 BIO's.



Vantage Plus LED light source



Intelligent Optical System (IOS) (Patented No. US8132915B)

At last - now when you change the aperture, the optics and mirrors automatically adjust for you, without the need to flip another lever!

Keeler has designed this unique one step movement to make your examinations easier and faster.

The (IOS) mechanism (patented) means that when you select the small, medium or large aperture the optics automatically adjust, providing 3 dimensional stereoscopic views of the retina through all pupil sizes.

Large Pupil

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



Intermediate Pupil

The viewing optics and light sources are in a 'mid position' for maximum stereopsis.



Small Pupil

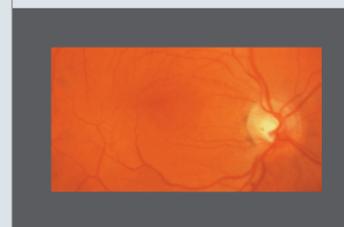
When looking through a small pupil the viewing optics and light source are converged to allow you to view the retina through the smallest pupils stereoscopically.



“Overall it is the best binocular indirect ophthalmoscope I have ever used”

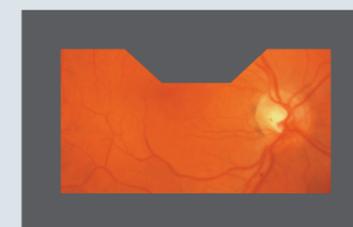
Mr J McAllister FRCS, FRCOph,
Consultant Ophthalmic Surgeon, Windsor

Exclusive - IOS Optics allows Small Pupil Imaging without any obstructions



View through Vantage Plus with IOS Optics.

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



View through NON IOS Optical Systems.

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

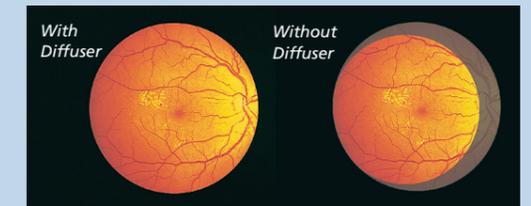


Teaching Mirror

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

Wide angle diffuser

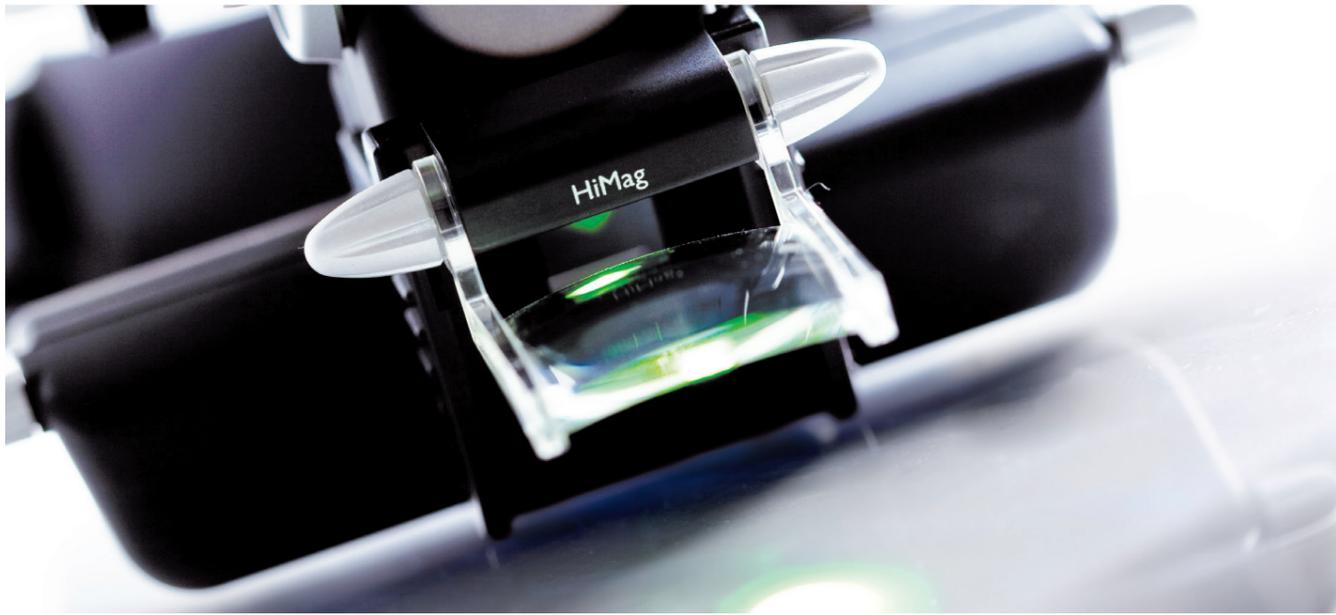
The Keeler wide angle diffuser eliminates shadows on the edge of the condensing lens expanding the field of view significantly, particularly useful during difficult and peripheral examinations. There is also less discomfort for the patient because the light is softer.



Slim professional carrying case

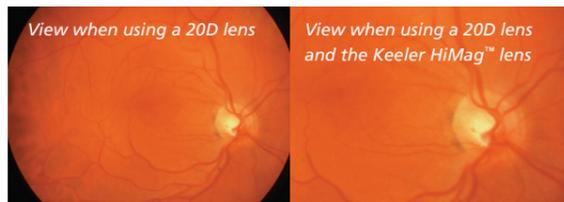


Transport your instrument in style and choose if you want to use your wheels or carry it on your shoulder.

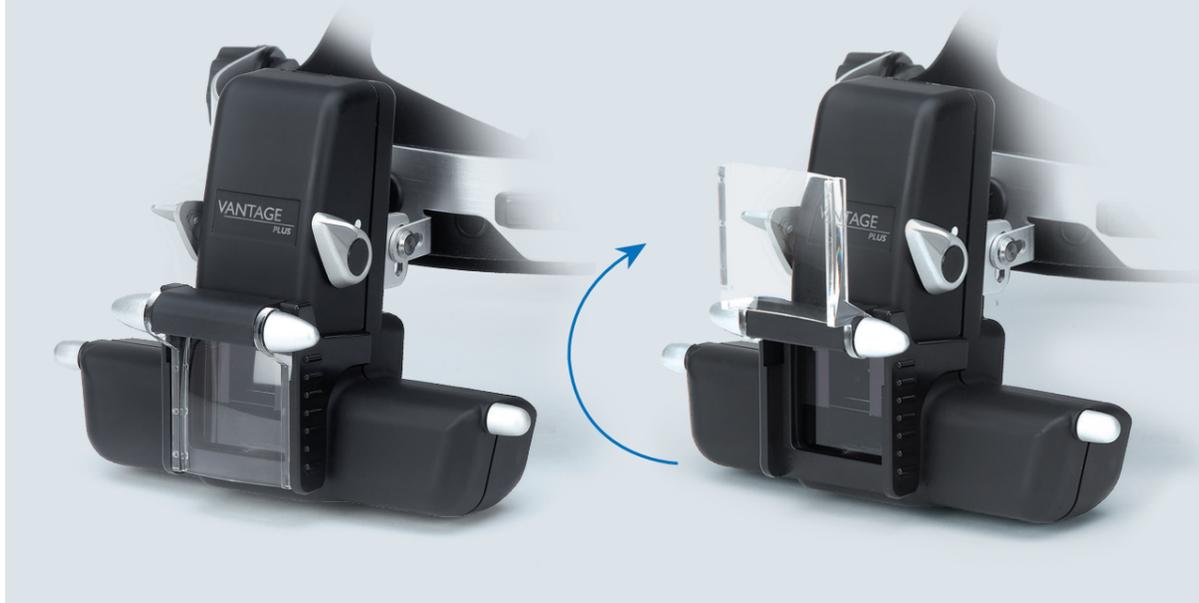


The HiMag™ lens slides on and off with ease

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



Wireless Power Supplies

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



Slimline Lithium Polymer Battery (paper clip shows scale)

Slimline Lithium Polymer Battery

The New Slimline Lithium Polymer battery can give you up to 6 hours of use, weighs only 53 grams, and is nearly 70% lighter than the standard battery. It is also much smaller and can fit nicely into the palm of your hand.

Slimline Wireless Charger

The new wall mountable charger remains as durable as the Standard Wireless battery charger with the facility to store your extra battery in the top compartment. The charger has an easy release button to remove your extra battery.



Slimline Wireless Charger

Slimline Lithium Polymer Battery



Slimline Lithium Polymer Battery

Standard Lithium Battery

Our original lithium battery lasts up to 11 hours of use and fits neatly into the charging unit.



Standard Wireless Charger

The Standard Wireless Charger can be wall or desk mounted with space for a spare battery, which means you will always have a back up. An LED indicates when the battery needs charging.



Standard Lithium Battery

Wired Power Supplies

SmartPack

SmartPack is a stylish power supply system that combines 3 options in one product.

No longer will you need to purchase a portable system for domiciliary use, another system for mounting on your wall and another for tabletop use.

WallPack

Alternatively, if your power supply needs to be stationary you can purchase the WallPack which fits neatly on the wall. Your indirect can be mounted on the bracket it comes with.



WallPack



SmartPack

Which system is right for you?

| Vantage Plus Usable Life | |
|--------------------------|-------------|
| Power Source | Natural LED |
| Slimline Battery | 6 hours* |
| Standard Battery | 11 hours* |
| SmartPack | 17 hours* |

* This measurement is based upon the illumination being used at normal examination power

“I used the Plus almost daily for four months before I had to recharge the battery”

Todd J. Purkiss, M.D., Ph.D., Chief Resident, Ophthalmology & Visual Sciences, University of Louisville

The Keeler Binocular Indirect Face Shield

Helping doctors stay safe

Providing a barrier between both patients and user to reduce potential transmission of harmful virus, designed with a simple pop on and off attachment mechanism.



What's in the box?

Vantage Plus Indirect Ophthalmoscope

- 1205-P-1010
VANTAGE PLUS LED
CORDED**
- Vantage Plus Indirect Ophthalmoscope
 - Corded assembly
 - Keeler BIO face shield
 - Hi-mag lens attachment
 - Lens cloth
 - +2D and plano ocular lenses
 - Instructions for use

- 1205-P-1011
VANTAGE PLUS LED
CORDED WITH
ACCESSORIES KIT**
- Vantage Plus Indirect Ophthalmoscope
 - Smartpack power supply
 - Keeler BIO face shield
 - Hi-mag lens attachment
 - Carry case
 - Teaching mirror
 - Blue Volk 20D condensing lens
 - Small thimble
 - Large thimble
 - FBO charts pad of 50
 - Set of 12 coloured pencils
 - Lens cloth
 - +2D and plano ocular lenses
 - Instructions for use

- 1205-P-1014
VANTAGE PLUS LED
WIRELESS IN CARTON**
- Vantage Plus Indirect Ophthalmoscope
 - Keeler BIO face shield
 - Hi-mag lens attachment
 - Slimline battery pack x2
 - Charger
 - Transformer
 - Lens cloth
 - +2D and plano ocular lenses
 - Instructions for use

- 1205-P-1015
VANTAGE PLUS LED
STANDARD WITH
ACCESSORIES KIT**
- Vantage Plus Indirect Ophthalmoscope
 - Keeler BIO face shield
 - Hi-mag lens attachment
 - Standard battery pack
 - Charger
 - Carry case
 - Teaching mirror
 - Blue Volk 20D condensing lens
 - Small thimble
 - Large thimble
 - FBO charts pad of 50
 - Set of 12 coloured pencils
 - Lens cloth
 - +2D and plano ocular lenses
 - Instructions for use

- 1205-P-1016
VANTAGE PLUS LED
SLIMLINE WITH
ACCESSORIES KIT**
- Vantage Plus Indirect Ophthalmoscope
 - Keeler BIO face shield
 - Hi-mag lens attachment
 - Slimline battery pack
 - Charger
 - Carry case
 - Teaching mirror
 - Blue Volk 20D condensing lens
 - Small thimble
 - Large thimble
 - FBO charts pad of 50
 - Set of 12 coloured pencils
 - Lens cloth
 - +2D and plano ocular lenses
 - Instructions for use

- 1205-P-1019
VANTAGE PLUS LED
STANDARD WITH
WALL-MOUNTED
CHARGER**
- Vantage Plus Indirect Ophthalmoscope
 - Keeler BIO face shield
 - Hi-mag lens attachment
 - Standard battery pack
 - Wall-mounted charging unit
 - Transformer
 - Lens cloth
 - +2D and plano ocular lenses
 - Instructions for use

- 1205-P-1020
VANTAGE PLUS LED
SLIMLINE WITH
WALL-MOUNTED
CHARGER**
- Vantage Plus Indirect Ophthalmoscope
 - Keeler BIO face shield
 - Hi-mag lens attachment
 - Slimline battery pack
 - Wall-mounted charging unit
 - Transformer
 - Lens cloth
 - +2D and plano ocular lenses
 - Instructions for use

Vantage Plus Student Sets

- 1205-P-1022
VANTAGE PLUS LED
STANDARD WIRELESS
STUDENT KIT**
- Vantage Plus Indirect Ophthalmoscope
 - Keeler BIO face shield
 - Hi-mag lens attachment
 - Standard battery pack
 - Charger
 - Carry case
 - Teaching mirror
 - Transformer
 - Lens cloth
 - +2D and plano ocular lenses
 - Halogen bulb insert
 - Instructions for use

- 1205-P-2007
VANTAGE PLUS LED
SLIMLINE WIRELESS
STUDENT KIT**
- Vantage Plus Indirect Ophthalmoscope
 - Keeler BIO face shield
 - Hi-mag lens attachment
 - Slimline battery pack
 - Charger
 - Carry case
 - Teaching mirror
 - Transformer
 - Lens cloth
 - +2D and plano ocular lenses
 - Halogen bulb insert
 - Instructions for use

Specifications

Vantage Plus System

| | |
|---|--|
| OCULAR EYE LENSES | +2D as standard (plano optional) |
| LIGHT OUTPUT | 1000 Lux |
| COLOUR TEMPERATURE OF LED | 3800K |
| ILLUMINATION MIRROR ADJUSTMENT ABOUT CENTRE AXIS | 84mm up, 53 mm down |
| ADJUSTMENT RANGE OF OPTICS | +/- 4 degrees |
| WORKING DISTANCE | Nominal 440mm |
| PUPIL SIZE | 1-10mm |
| PD RANGE | 48-76mm |
| BATTERY | Up to 2 hours continuous on a single charge |
| CLEANING | Wipe with water / isopropyl alcohol solution (70% IPA by volume) |
| FILTERS |  Cobalt Blue  Red-free  Diffuser |
| PATCH DIAMETER | 20mm, 40mm, 60mm |
| APERTURE |  Large  Intermediate  Small |
| TEMPERATURE LIMITS | Operation +10°C to +35°C Storage -10°C to +55°C Transport -40°C to +70°C |
| HUMIDITY LIMITS | Operation 30% to 75% Storage 10% to 95% Transport 10% to 95% |

Electrical Ratings

| | |
|--------------------------------------|--|
| INPUT MAINS DATA | 100-240V - 50/60Hz |
| POWER SUPPLY RATING | 12V : 2.5amps |
| PHOTOCHEMICAL SOURCE RADIANCE | 1mm aperture (mW cm ⁻² sr ⁻¹) |
| APHAKIC, LA (305-700nm) | 1.32 |
| PHAKIC, LB (380-700nm) | 1.16 |

Dimensions and Weight

| | |
|-------------------|---------------------------|
| DIMENSIONS | 150 x 230 x 310mm (HxWxD) |
| WEIGHT | 596g |

Classification and Safety Standards

| | |
|-----------------------|---|
| CLASSIFICATION | Class II Equipment. Type B protection against shock |
|-----------------------|---|



Vantage Plus Overview

The Keeler Vantage plus is a head-mounted indirect ophthalmoscope, designed to save time while providing balanced comfort for extended use in a range of clinical applications through the illuminated binocular optical view.

This is intended to be used in conjunction with a condensing lens as prescribed through indirect ophthalmoscopy techniques to illuminate and examine the fundus.

This equipment is to be used only by a healthcare professional.

More Keeler Instruments

With over 100 years of industry experience, Keeler has become a household name among optometrists and ophthalmologists worldwide.

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Keeler
— A world without vision loss —



A **Halma** company

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