



Symphony by Keeler ph Keeler





Painstakingly crafted Slit Lamps

Introducing Symphony from Keeler – quality design and leading technology Slit Lamps with a contemporary design. It's very simple. We set ourselves the task of designing a slit lamp to exceed performance expectations. Our exemplary attention to detail has helped us to achieve just this. The result is Keeler Symphony, combining intricate performance with practical elegance.



"A symphony is like the world. It must contain everything"

Gustav Mahler

Elegant design



Keeler is known for exceptional design ability. We have combined classic beauty with modern technology, resulting in the perfect blend of style and substance.

Keeler Symphony provides the functionality and performance you want, need and expect from a Slit Lamp.

The controls are perfectly placed for ease of use, without compromising the clean and elegant lines of the product. Our design flair gives the product a sleek, beautiful profile.



"The world never needed Beethoven's Fifth Symphony until he created it. Now we could not live without it."

Louis I Kahn

Exceptional optics

Keeler is renowned for market-leading optics and has been dedicated to optical design and manufacture for nearly 100 years. Our customers have absolute confidence in the quality, accuracy and reliability our optical design delivers.

Our advanced design and manufacturing techniques give Keeler Symphony the advantage of quite simply stunning optical performance.





Outstanding reliability

We understand how important the Slit Lamp is to your practice. You rely on it to provide accurate diagnostic and examination results day in, day out. Failure is simply not an option.

With Keeler Symphony, you can rest assured that our exceptional attention to detail, on every single component, will ensure optimum performance and reliability time after time. You also benefit from the added confidence of knowing your Keeler Symphony is backed by our 3 year guarantee.



Peace of mind with our 3 year warranty

Your new Keeler Slit Lamp comes with the piece of mind of a 3 year warranty. You will have access to our comprehensive online help pages and our global telephone and email technical assistance team.



With Keeler, it's all about the optics



Refraction and Combi-unit ready

Attaching the Symphony Slit Lamp to your unit couldn't be easier. We've kept the technician front of mind when developing the fitting mechanics to ensure you can be up and running in no time.

Our unique Slit Lamp power management system allows input from both DC (direct current) and AC (alternating current) sources to give a 6V DC, 12V DC or a constant current (CC) output.

INPUT	OUTPUT
12v DC	6V DC, or CC
24V DC	6V DC, 12V DC or CC
12V > 16V AC	6V DC, 12V DC or CC



Integrated Yellow Filter

Ease of use is key to Keeler's product development. This is why our designers have integrated the allimportant yellow filter into the optical body. You simply need to 'drop it in' when you are looking to detect subtle corneal staining - no more fumbling around with hand held wratten filters.



Built in diffuser

The Symphony Slit Lamp has been built with an integrated diffuser in the filter wheel. Another nice design touch - instant access to a diffuse light which gives an improved general overview of the eye under examination.

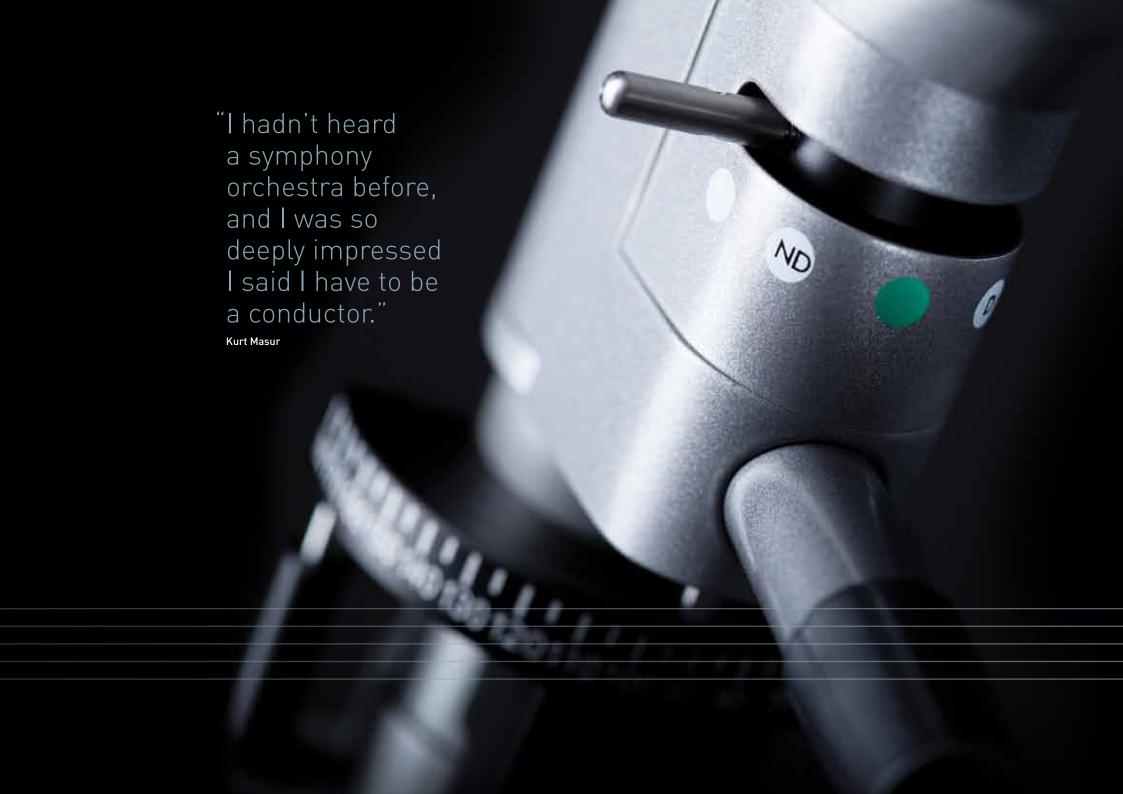


On board illumination control

The illumination control panel has been placed close to the joystick, giving you convenient and constant access to this vital control.











Handy additions

Choose from a range of diagnostic accessories that will perfectly complement your Keeler Slit Lamp.



Volk Digital lenses

The Digital Series of lenses is Volk's 3rd generation of patented double aspheric optic lenses. These are an evolution of the Classic Slit Lamp (eg. 90D) and Super Series lenses, with features to deliver the highest resolution retinal imaging of any non-contact lenses. The shape of the lenses, and a coating optimized for visible light, reduce the incidence of glare and reflections and maximise traditional examination and digital slit lamp photography results.

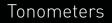
LENS	OUTPUT	IMAGE MAG.	LASER SPOT SIZE	PRIMARY APPLICATION
Digital High Mag Lens	57° / 70°	1.30x	0.77×	Highest resolution, high magnification imaging of the central retina
Digital Wide Field Lens	103º / 124º	0.72x	1.39x	Highest resolution pan retinal examination
Digital 1.0x Imaging Lens	60° / 72°	1.0x	1.0x	Highest resolution, diagnosis of the posterior pole and reduced glare and reflections

Motorised Instrument Table

The Keeler table comes with castors as standard and a virtually silent motor. Two IEC female power outlets and a switch mode power input make the Keeler table the perfect partner for your new Keeler Symphony Slit Lamp.







Choose from the T type or R type KAT (Keeler Applanation Tonometer).

The T type is removable and conveniently fits into a shaped guide plate that, in turn, fits in the test bar locating hole.

The R type is fitted to a mounting post, located on the optics block, and can be swung in and out for use, as required.







Keeler Lenses and Optics

As you'd expect from Keeler, brilliant stereoscopic imagery, high chromatic correction and crisp clarity come as standard with the Symphony Slit Lamp. We use high anomalous dispersion glass within the 15 element optical system to achieve this.

Combining top quality materials with our superior optical design enables us to achieve remarkably low field curvature and low optical distortion levels.

And to further enhance the optical performance, all glass to air surfaces are multi-layer coated to improve light transmission.



Slit Lamp Specification

OPTICAL SYSTEM

Туре	Galilean converging binoculars @ 8°
Magnification	Rotating drum change x6, x10, x16, x25 & x40
Eyepiece	x12.5
Field of view	34, 22, 14, 8.5 and 5.5 mm
Interpupillary distance	49.0 to 77mm
Objective lens focal distance	107mm
Objective lens convergence angle	13°

SLIT PROJECTION SYSTEM & BASE

Slit Width	0-12mm continuously variable	
Slit Length	12mm (1mm – 12mm continuously variable)	
Aperture diameters	0.2, 1mm square, 2, 3, 5, 9 and 12mm	
Filters	Clear; red free; neutral density; diffuser; blue; IR heat absorbing filter permanently installed	
Slit angle	+/- 90° continuous	
Slit rotation	+/- 180° with reference scale	
Slit vertical Tilt	0°, 5°, 10°, 15° & 20°	
Base travel	25mm Z-axis, 107mm X-axis, 110mm Y-axis	
Horizontal fine adjustment	12mm	
Table top dimensions	405 x 500mm	
Fixation lamp	LED	
Light source	LED / 6V 20W Halogen lamp	
• • • • • • • • • • • • • • • • • • • •		

WEIGHT, PACKED (APPROX.)

Slit Lamp with chinrest	20.0Kg, 75 x 54 x 45cm W x D x H
•	5.2Kg, 51 x 42 x 15cm W x D x H

SYSTEM COMPONENTS	Part number
Slit Lamp Symphony 40H, Standard Set complete with Table Top	3020-P-2000
Slit Lamp	3020-P-5032
PSU	3020-P-5040
Slit Lamp Symphony 40H, Refraction Unit Set	3020-P-2003
Slit Lamp	3020-P-5032
Power Supply and Socket Kit	3020-P-7017
Slit Lamp Symphony 40H LED, Standard Set complete with Table Top	3020-P-2007
LED Slit Lamp	3020-P-5056
PSU	3020-P-5040
Slit Lamp Symphony 40H LED, Refraction Unit set	3020-P-2006
LED Slit Lamp	3020-P-5056
Power Supply and Socket Kit	3020-P-7017
The power supply forms part of the ME Equipment	

PROTECTION AGAINST INGRESS IPx0

CLASS II ME EQUIPMENT

Insulation between mains parts and the functional earth provide at least two means of protection.

POWER SUPPLY		Part number
Power supply unit	Switch mode, (110V – 240V input) +/- 10% multi plug compliant to EN60601-1 EN 61000-6-2, EN 61000-6-3	3020-P-5040/ 3020-P-7017
Power supply output	12V DC: 2.5 amps must be IEC/EN 60601 compliant	
Complies with	Electrical Safety (Medical) BS EN 60601-1	
	Electromagnetic compatibility EN 60601-1-2	
	Ophthalmic instruments - Fundamental requirements and test methods ISO 15004-1	
	Ophthalmic instruments - Optical radiation hazard ISO 15004-2	

ENVIRONMENTAL

	Temperature	Humidity	Pressure
Use	+10°C to +35°C	30% to 90%	800 hpa to 1060 hpa
Storage	-10°C to +55°C	10% to 95%	700 hpa to 1060 hpa
Transport	-40°C to +70°C	10% to 95%	500 hpa to 1060 hpa

Symphony
by Keeler
ph Keeler

