

# BASIC, ECONOMICAL, ENVIRONMENTALLY FRIENDLY, SL-2G LED SLIT LAMP

3.1.P. Tipas stacionarus, zeiss tipo-apšvietimo modulis žemiau mikroskopo

Long life LED illumination saves power, helps the environment and reduces bulb replacement.



## Features

- » Compact and practical, ergonomic design
- » Three magnifications (10x; 16x; 25x)
- » Long life and power saving LED illumination

## Specifications

<b>Microscope</b>		
Type	3.2.P. Mikroskopas Galileo tipo, konvergencinis	Galileo convergence
Magnification selection		3 steps by rotation drum
Magnification	3.3.P. Padidinimai 3 perjungimai: 10x, 16x 25x	10x, 16x, 25x
Eyeiece	3.5.P. Okuliarai 12,5x	12.5x
Diopter adjustment	3.6.P. Okuliarų dioptrijų reguliavimas -5,0 -+3,0D	-5D ~ +3D
Total magnification (field of view)		10x (φ 22.5 mm)      15.98x (φ 14.1 mm)      25.53x (φ 8.8 mm)
<b>Illumination</b>		
Slit width	3.7.P. Plyšio plotis 0-14mm	Continuous from 0 to 14 mm
Slit length	3.8.P. Plyšio ilgis 1-14 mm	Continuous from 1 to 14 mm
Aperture	3.9.P. Plyšio diametras 1-14 mm, keičiamas žingsniukais 0,3mm, 1mm, 5mm, 10mm, 14mm	Continuous from 1 to 14 mm, φ 0.3, 1, 5, 10, 14 mm
Slit angle	3.10.P. 0-180 laipsnių su horizontalia skenavimo galimybe	0° to 180°
Filter	3.13.P. Filtrai: mėlynas ir beraudis	Blue, red-free
Light source	3.11.P. Šviesos šaltinis LED	LED
<b>Power</b>		
Input (Primary)	AC 100-240V	50-60Hz
Power consumption	40VA	
<b>Dimension &amp; weight</b>		
Standard (with table top and chinrest)	550 mm (W) x 399 mm (D) x 520 mm (H), 15,2 kg	

## Optional Accessories



External Fixation Target (SO-FT02)



Fundus Viewer FV-1L



Yellow Filter



Tonometer Mount for R900 (SO-TM1)



Tonometer Mount for R870 (SO-TM2)

- » 12.5x Measuring Eyepiece
- » 20x Eyepiece
- » Parallel Binocular Tubes (PB-2)
- » Diaphragm unit

### 3.12.P. Priedėlis binokulių pakreipimui 20° kampu horizontalaus pamišiaus atžvilgiu

The viewing into the microscope is inclined at 20° to the horizontal - thus enabling the examiner to keep his head in a fatigue free position.



This adapter can be ordered at:

Medical Workshop BV  
Rijksstraatweg 40  
3454 JC De Meern  
The Netherlands  
Telnr: +31 306665522  
Faxnr: +31 6663536

## 3. DV-1, Digital video relaylens n

### Remark:

The following information is written with reservations. Please be aware that the final product is still under development and can be different from the information explained in this part of the TEAM06 file.

Topcon could not offer until now an imaging solution which CSO introduced, a digital fire wire video camera which produces a good quality of live image. The live image of the DC-1 does not have that high resolution as the digital camera from CSO. Focusing on a live image or for teaching purposes, it can be of great help to have a good quality live image. There was a request from the market to come up with such a digital solution to cover the gap in our digital solutions.

In cooperation with an external manufacturer TEM has found a digital relaylens which fits on our digital slitlamp series which has extended specs.

**no image available**

The DV-1 is a digital camera designed for high-resolution image acquisition. A progressive-scan interline CCD sensor gives a resolution of 1.4 million pixels in a 12-bit digital output. High-speed, low-noise electronics provide linear digital data at frame rates up to 10 fps at full resolution. The IEEE 1394 FireWire digital interface allows ease of use and installation with a single wire and no frame grabber card is required in the computer. "A powerful and user friendly software interface is provided for a real time image preview and for the image and movie capture". DV-1 mounts some important components for improving the quality of the captured images:

- A special filter mounted on the CCD improve the dynamic of colours, increase the resolution in the visible spectrum and eliminate the effects of near infrared light incident upon the CCD
- A moveable yellow filter gives a high contrast and quality image in fluorescein analysis
- A variable diaphragm increase the depth of focus specially at the low magnifications

3<sup>rd</sup> Generation...

# Digital Series Slit Lamp Lenses

The Digital Series are our 3rd generation, double aspheric, non-contact slit lamp lenses. Building on the 'Super Series' lenses with high grade glass, we enhanced our double aspheric designs further with advanced computer modeling. Also, gains in the quality of our A/R coating provided a noticeable reduction in glare and reflections. We found that this helped improve slit lamp photographic imaging. However, photography is not their sole purpose. The Digital Series lenses provide the finest views for all examinations and imaging, enabling discernment of details previously unattainable at the slit lamp.

3.14.P. Pagaminta iš mineralinės medžiagos, padengtos daugiasluoksniemis dangomis, pagerinančiomis vaizdo ryškumą ir sumažinančiomis šviesos atspindžius

	View	Image Mag.	Laser Spot	Working Distance	Primary Application
60D Classic	68° / 81°	1.15x	.87x	13mm	High magnification views of the posterior pole
78D Classic	81° / 97°	.93x	1.08x	8mm	General diagnosis and treatment
90D Classic	74° / 89°	.76x	1.32x	7mm	General diagnosis / small pupil examinations
Super Series	Field of View	Image Mag.	Laser Spot	Working Distance	Primary Application
Super 66®	80° / 96°	1.0x	1.0x	11mm	High Resolution viewing of the posterior pole
SuperField®	95° / 116°	.76x	1.3x	7mm	General retinal scanning situations
Super VitreoFundus®	103° / 124°	.57x	1.75x	4-5mm	Wide field retinal scanning and small pupil exams (3-4 mm)
SuperPupil® XL	103° / 124°	.45x	2.2x	4mm	Examination through small pupils (2-3mm)
Digital Series	Field of View	Image Mag.	Laser Spot	Working Distance	Primary Application
Digital High Mag®	57° / 70°	1.30x	.77x	13mm	Highest resolution and magnification imaging of the posterior pole with reduced glare and reflections.
Digital 1.0x Imaging Lens	60° / 72°	1.0x	1.0x	12mm	High resolution 1.0x imaging with reduced glare ideal for optic disc measurements and slit lamp photography.
Digital Wide Field®	103° / 124°	.72x	1.39x	4-5mm	High resolution, wide field retinal scanning and reduced glare and reflections.

# Classic Slit Lamp Lenses

In 1956, aspheric ophthalmic lenses for subnormal vision were developed by Dr. David Volk. He found that an aspheric surface corrected the aberrations present in more common spherical lenses.

Several developments occurred through the years, leading up to 1982 when all Volk lenses for indirect ophthalmoscopy were redesigned with both surfaces aspheric, providing a substantial improvement in image quality.

A series of indirect ophthalmoscopy lenses was developed, resulting in the choice of the 90 Diopter lens as the most practical for indirect ophthalmoscopy with the slit lamp. The Volk 60D and 90D lenses were commercialized providing a variety of characteristics; magnification, field of view and undilated pupil examination.

The 60D and 90D lenses have been known as the industry standard for decades, having revolutionized the slit lamp examination in the 1970s.

3.14.P. Statinis žiūros laukas 81 laipsnis, dinaminis žiūros laukas 97 laipsniai, didinimas 0.93x

Classic	Field of View	Image Mag.	Laser Spot	Working Distance	Primary Application
60D Classic	68° / 81°	1.15x	.87x	13mm	High magnification views of the posterior pole
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3.14.P. Lazerinio taško dydis 1,08x

3.14.P. Darbinis atstumas 8 mm

# AIT-16

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The Topcon AIT-16 is a basic stable ophthalmic table designed for Topcon instruments. With a maximum load capacity of 50kg, even a complete retinal camera can be accommodated. The up-down switch is conveniently located on the column of the table. The compact style allows placing instruments on a small footprint. Two auxiliary power outlets are provided. The motorized height elevation can be adjusted with a stroke of 220mm. The AIT-16 is equipped with smooth castor movement with locking mechanism.

## Features

- » Small footprint
- » Large stroke of 220mm
- » Smooth castors with lock
- » Two auxiliary power outlets
- » Load capacity of 50kg

### 3.15.P. Staliukas su 4 ratukais ir stabdžiais

