

SL-D701

Digital Slit Lamp

SL-D701 with LED Light Source

DC-4 Digital Camera



 **TOPCON**
YOUR VISION. OUR FOCUS.

SL-D701

with LED Light Source

Sharp, Bright and Homogeneous Illumination



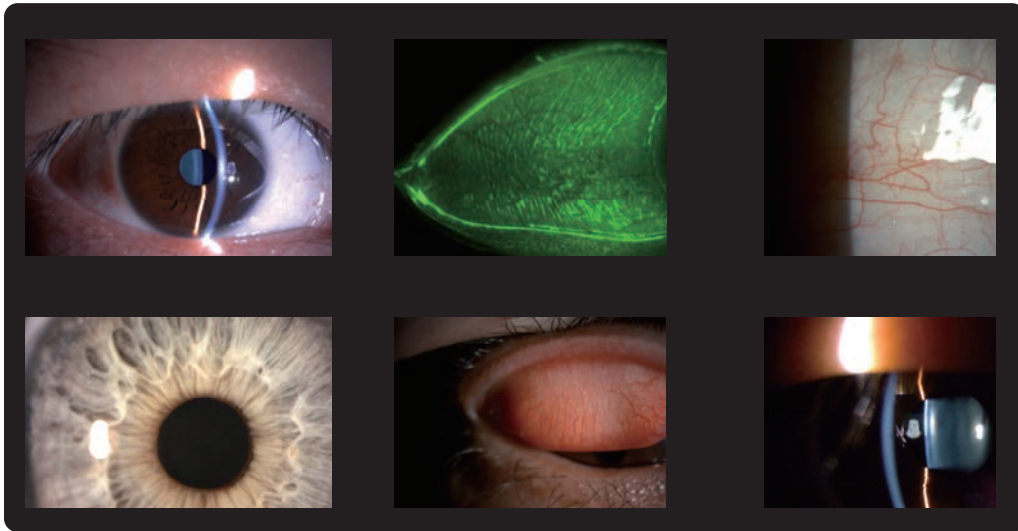
Features

- » LED Illumination Source
- » Apochromatic Optics with Protective Coating
- » Selectable Amber Filter for Color Correction
- » Five Magnifications Selectable by Rotating Drum

Optional DC-4 Digital Camera

- » High Resolution
- » Smart Capture Function
- » Video Capability
- » Auto Exposure

Advantages and Benefits of LED



LED Illumination Source

The new LED illumination source allows observation under a brighter and more homogeneous light condition compared to the conventional halogen bulb source. Color temperature remains uniform when adjusting light intensity insuring consistent viewing results. The short wavelength of the LED spectrum allows for the observation of minute details.

Advantages of LED Illumination

- » Brighter illumination enhances observation of the eye structures
- » Wavelength characteristics allow for easy visualization of subtle details
- » Consistent color temperature throughout the entire intensity adjustment
- » Substantial reduction in bulb replacement
- » Energy and cost savings





DC-4

Digital Camera

Exclusively from Topcon

Smart Capture Function

With a simple push of the joystick trigger the operator can obtain a rapid series of images that are quickly saved for later revision and selection. The Smart Capture function minimizes failed images or blurry pictures, especially in children and non-cooperative patients.

Still Image with Auto Exposure (AE) Function

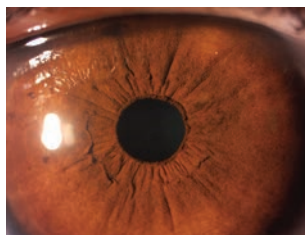
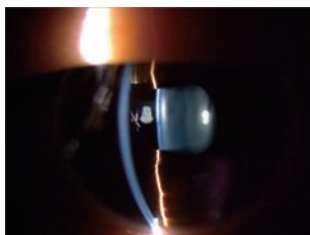
By automatically adjusting the shutter speed and sensor gain, the brightness of the image will be automatically compensated. As a result, the live image used for alignment and the final picture will have the same color balance.

Live View

When using the EZ Capture® or IMAGEnet® software in conjunction with the DC-4, a real time live image will be seen on the monitor to facilitate centering and focusing. The live image can be used to show the eye condition to third party individuals for teaching and education. Sensitivity, shutter speed and white balance can be adjusted from the computer.

Video Capability

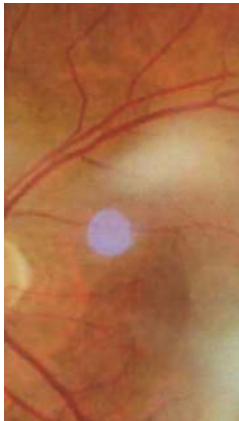
The DC-4 allows for easy acquisition of video clips of the eye movements without interfering with the examination.



Additional Filters

Amber Filter

A warmer, more pleasant tone of skin and eye structures can be obtained by inserting the amber filter. This color correction filter produces a pleasant coloration that is especially useful in slit lamp imaging.



With Amber Filter



Standard LED Illumination

Right / Left Eye Indicator

When in photography mode, the SL-D701 automatically recognizes the eye being photographed and identifies right eye or left eye in the capture software.

More Than Just the Basic Functions

Advanced lens coatings including a protective layer plus the use of apochromatic optics enhance the observation, reduce fatigue and minimize maintenance.

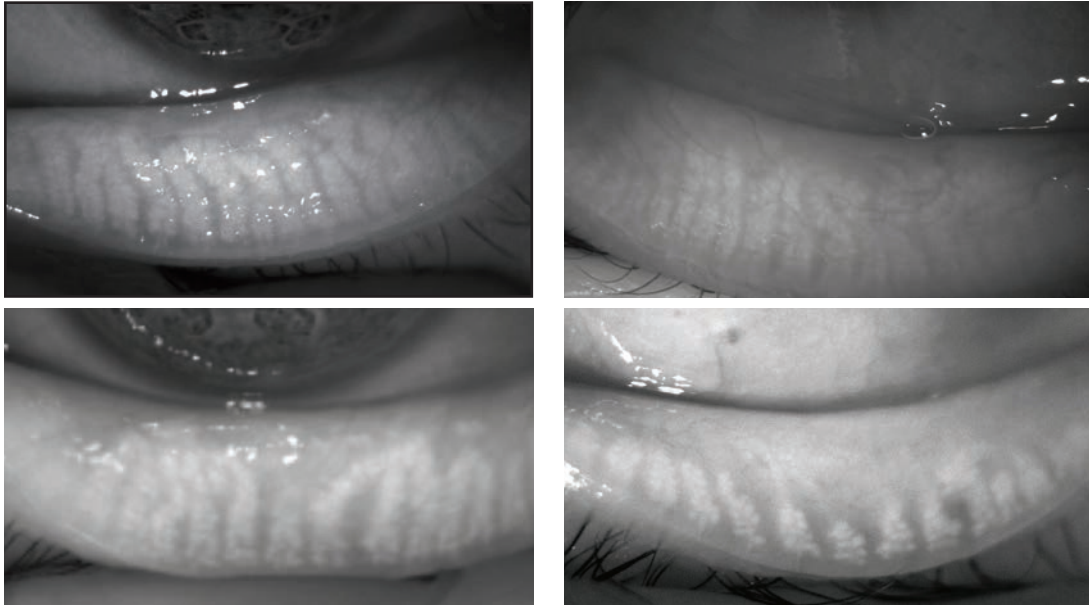
In addition to the standard Cobalt Blue, ND and Red-free filters, the SL-D701 features a color correction Amber Filter.



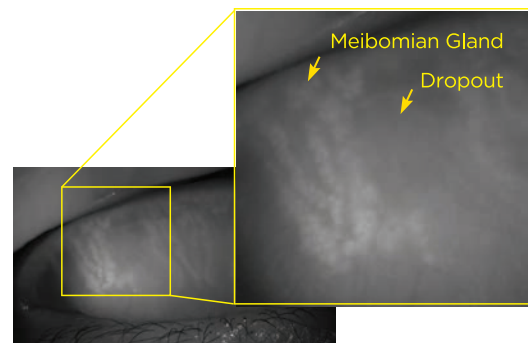
Meibomian Gland Observation

Meibomian gland observation and documentation is possible when using the optional DC-4, BG-5 digital photo attachment and background illuminator.

Different Conditions of Meibomian Glands



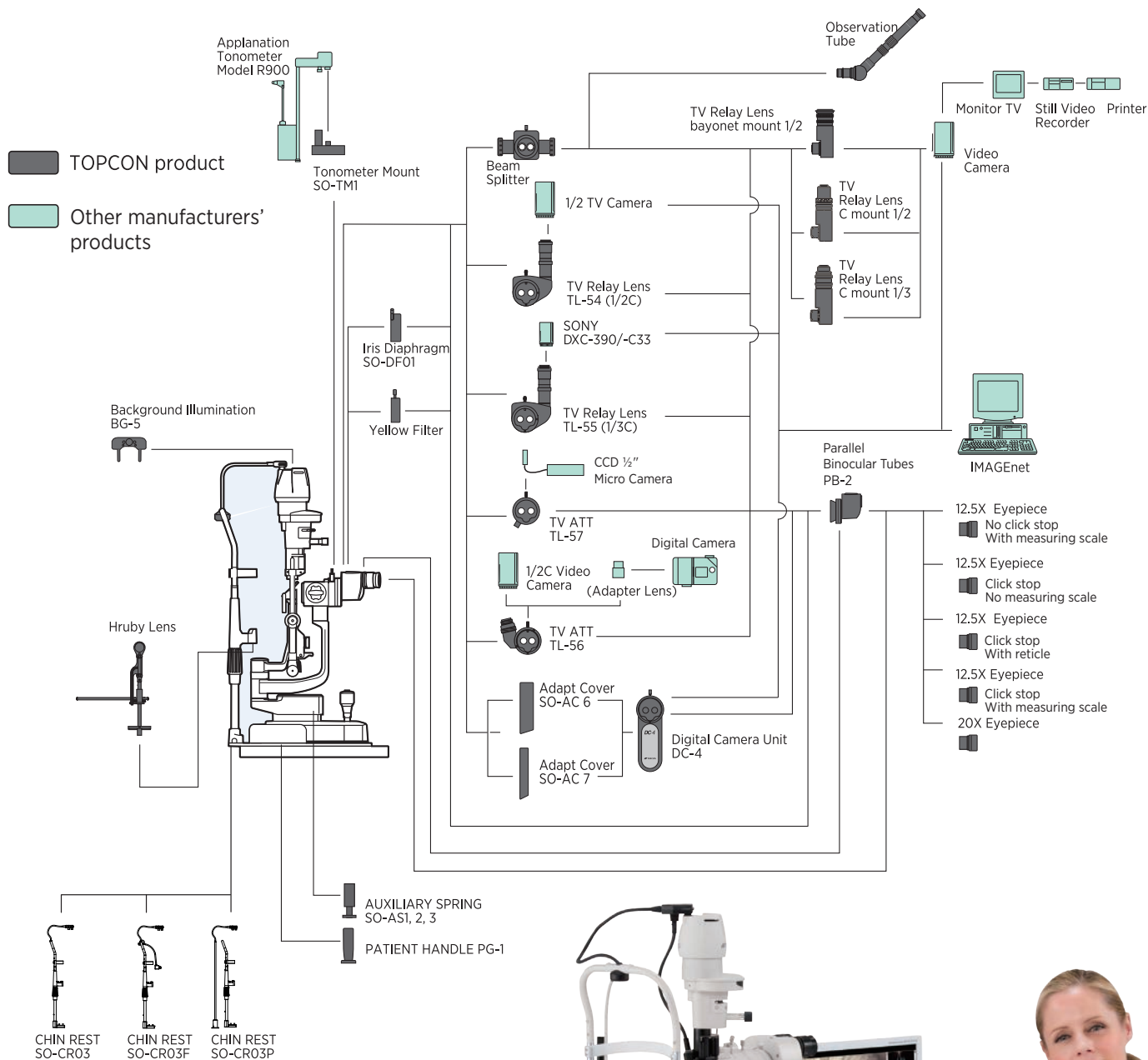
Meibomian Gland Close-up



*Images courtesy of Reiko Arita, MD, PhD.
Itoh Clinic, Department of Ophthalmology,
University of Tokyo School of Medicine*



System Chart



SL-D701

with LED Light Source

Shown with optional DC-4 Digital Attachment and BG-5 Background Illuminator, optional handle bars and optional instrument table.

NOTE: Optional instrument table not available in all markets.



Specifications

Microscope unit

Type		Galileo type
Magnification		Drum, 5-step magnification
Magnification steps		6/10/16/25/40
Overall magnification (actual vision field)		6.37 (ϕ 35.1mm) 9.94 (ϕ 22.5mm) 15.87 (ϕ 14.1mm) 25.37 (ϕ 8.8mm) 39.62 (ϕ 5.6mm)
Eyepiece lens	Magnification	12.5x
	Dioptr adjustment range	-5D to +5D
Binocular tubes		PD adjustment: 55 to 78mm

Illumination unit

Illumination field	Slit width	0 to 14mm, adjustable (14mm=circle)
	Slit length	14mm to 1mm, adjustable (14mm=circle)
	Aperture diameter	ϕ 14, 10, 5, 2, 1, 0.2 mm
Slit direction	Vertical to horizontal, adjustable Inclination: 5°/10°/15°/20° Side swing	
Filter	Blue filter, red-free filter, amber filter, UV cut filter (normal use) ND filter (13% transmission)	
Illumination lamp	LED type	3A, 10W

Base unit

Forward-backward movement	90mm
Right-left movement	100mm
Vertical movement	30mm
Amount of movement in all directions	12mm

Chinrest unit

Amount of vertical movement of chinrest	80mm
Fixation target	Fixation target with diopter adjustment Luminous fixation target
Fixation lamp	LED (Red)

Other Specifications

Dimensions	w/Table	550mm(W) x 420mm(D) x 752 to 782mm(H)
	w/ Unit Table	440mm(W) x 397mm(D) x 752 to 782mm(H)
	w/o Table	329mm(W) x 396mm(D) x 652 to 682mm(H)
	w/o Table and Chinrest	329mm(W) x 331(304)mm(D) x 652 to 682mm(H)
	Weight: w/Table	19kg
	w/ Unit Table	18kg
	w/o Table	13kg
	w/o Table and Chinrest	11.5kg
	Table size	550mm x 370mm
	Unit Table size	440mm x 350mm
Power Supply	Height from the top to patient's eye	375mm
		100-240V AC, 50-60Hz, 110VA



*Subject to change in design and/or specifications without advanced notice.

IMPORTANT

In order to obtain the best results with this instrument, please be sure to review all user instructions prior to operation.



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