Topcon Slit Lamp Series





The Combined Result of **Optics and Technology** SL-D series Digital Slit Lamps

The blending of quality, versatility and ease of use make digital image capture smooth and effortless. The SL-D series meets in that way, the needs of demanding eye care specialists.



Optical Quality

With more than 85 years of experience in lens manufacturing, Topcon produces all the optics to outfit its instruments, providing excellent lens quality and a bright, clear view.



Ergonomics

Topcon Slit Lamps are ergonomically designed for comfortable use. The SL "D" Series employ sconverging binocular tubes with a comfortable parallel magnification.



Versatility

Variety of models in different configurations from basic clinical observation to sophisticated image capture. The Topcon series will satisfy any need and budget.



LED Illumination

As a leader in Ophthalmic Instrumentation, Topcon is incorporating LED as the main illumination in some models of its slit lamps. The lifetime of the LED is substantially longer than conventional halogen bulbs. LEDs don't need frequent replacement making Topcon slit lamps environmentally sound.

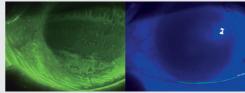
Filter System



Topcon Blue Free Filter™ System¹

The Blue Free Filter[™] observation can be performed by using the incorporated exciter filter and the optional barrier filter for slit lamp. Tear flow details and scars can be clearly viewed with less glare or pooling².

- Shizuka Koh et., "Diagnosing Dry Eye Using a Blue-free Barrier Filter' AMERICAN JOURNAL OF OPHTHALMOLOGY, 2013 September Images provided by Toru Noda, M.D, Department of Ophthalmology



Blue Free Filter³

Cobalt Blue Filter³



Amber Filter

The SL-D Series incorporates an amber filter, which can be easily inserted or removed.





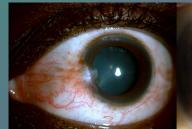
Non Amber

High quality digital images with the DC-4 Digital Photo Attachment*

The DC-4 Digital Camera can be easily mounted on any of the "D" series of Topcon Slit Lamps converting them into an ophthalmic imaging instrument.

The DC-4 captures color and monochrome images of the eye. When used in conjuction with the BG-5 background illuminator, the Infra-red capabilities allow viewing and documenting meibomian glands.









Optional

Features



Smart Capture Function five images captured in rapid sequence.



Live View see exactly what you are capturing on screen.



Still Image with Auto
Exposure (AE) Function
always the correct color and
brightness balance



Video Capability video clips are easily obtained and displayed



Meibomian Gland Observation view and document meibomian glands condition with infrared viewing

Meibomian Gland Observation

Meibomian gland observation can be performed and documented using the optional illumination system in selected models.*1*2

*1 The selected configuration is Digital Slit Lamp SL-D701 + Digital Camera DC-4 + background illuminator BG-5.
*2 Arita Reiko et., "Development of Definitive and Reliable Grading Scales for Meibomian Gland Dysfunction", AMERICAN JOURNAL OF OPHTHALMOLOGY SEPTEMBER 2016;169:125-137

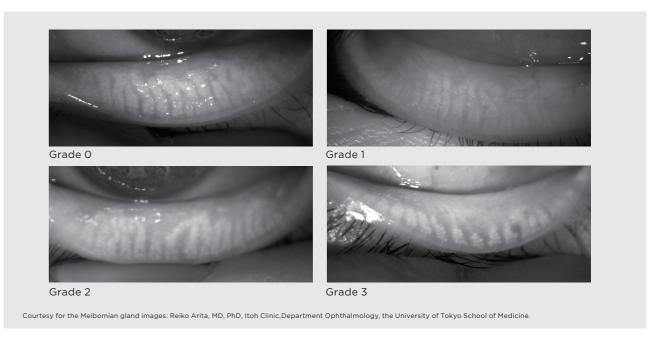
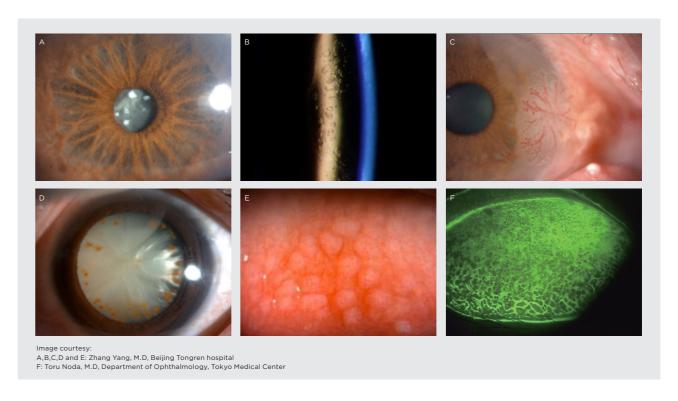


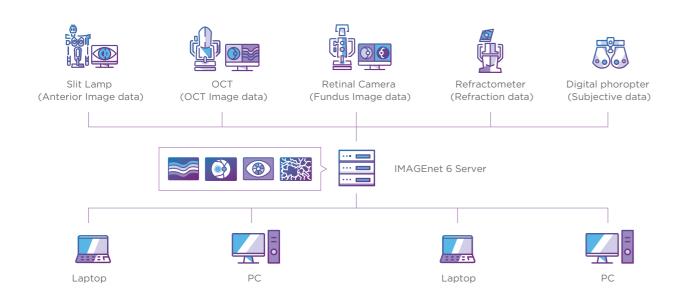
Image samples

The DC-4 digital sensor provides natural color and sharp, clear images.



Connectivity When used in combination with the DC-4 Digital Attachment, all SL "D" Series Slit Lamps can capture and transfer images to the IMAGEnet 6 ophthalmic data system. IMAGEnet 6 is Topcon's proprietary data management software capable of capture, store, display and enhance digital images obtained with Topcon devices.

Topcon IMAGEnet 6 Data Management System



The balanced combination of LED and halogen illumination models plus a selection of optional accessories provide versatility and convenience.

Slit Lamp halogen type



SL-D2/D4

Digital Slit Lamp

SL-D2: A basic slit lamp with three magnifications, halogen illumination and digitally ready for use with the DC-4 attachment.

SL-D4: Five magnifications, halogen illumination and digitally ready for use with the DC-4 attachment.



SL-D301

Digital Slit Lamp

Basic three magnification slit lamp with halogen tower illumination system and digitally ready for use with the DC-4 attachment.



SL-D701

Digital Slit Lamp

Halogen illumination, five magnification and digitally ready for use with the DC-4 attachment.

Accepts the BG-5 background illuminator with infra-red capability for meibography capture and the blue-free filter system for fluorescent observation.

Slit Lamp LED type



SL-2G

LED Slit Lamp

Basic, economical and environmentally friendly with three magnifications and LED illumination.



SL-D4 (Type: LED)

Digital Slit Lamp

Five magnifications, LED illumination and digitally ready for use with the DC-4 attachment. Includes exciter filter for use with optional blue-free observation system.

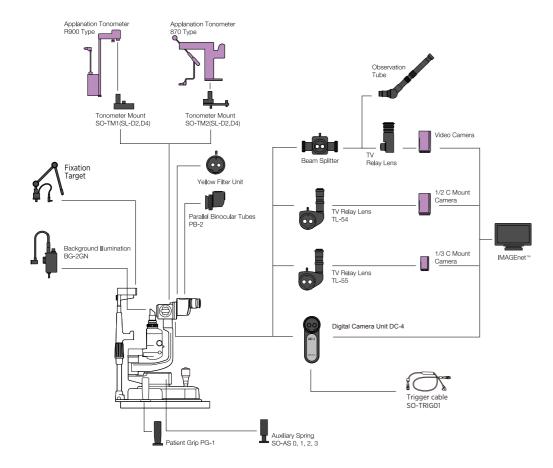


SL-D701

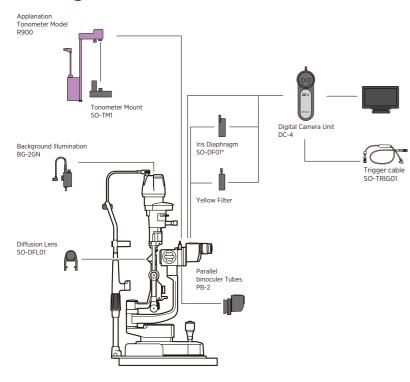
Digital Slit Lamp

LED illumination, five magnification and digitally ready for use with the DC-4 attachment. Accepts the BG-5 background illuminator with infra-red capability for meibography capture and the blue-free filter system for fluorescent observation.

System Configuration: SL-D2/D4 (Type:LED)

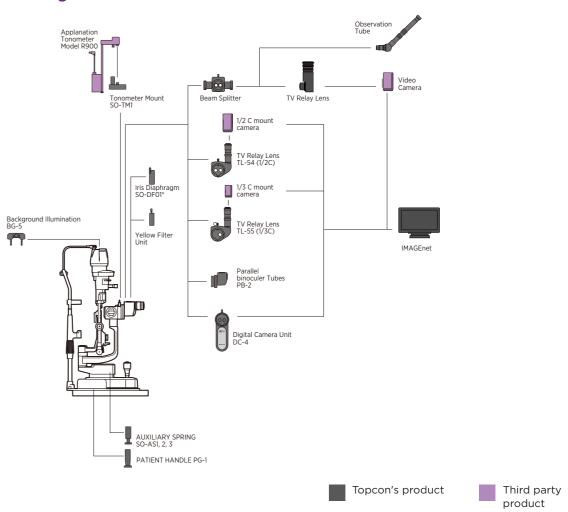


System Configuration: SL-D301



 $^{^{\}ast}$ Not available for all countries. Please check with distributor in your region for availability.

System Configuration: SL-D701





Microscope	SL-2G	SL-D2	SL-D4/ SL-D4(Type:LED)	SL-D301	SL-D701
Туре	Galilean type	Galilean type Galilean type		Galilean type	Galilean type
Magnification Selection	3 steps	3 steps	5 steps	3 steps	5 steps
	by drum rotation	by drum rotation	by drum rotation	by drum rotation	by drum rotation
Eyepiece	12.5x	12.5x	12.5x	12.5x	12.5x
Magnification Ratio	10x(22.5mm)	10x(22.5mm)	6x(35.1mm)	10x(22.5mm)	6x(35.1mm)
(Field of View)	16x(14.1mm)	16x(14.1mm)	10x(22.5mm)	16x(14.1mm)	10x(22.5mm)
	25x(8.8mm)	25x(8.8mm)	16x(14.1mm)	25x(8.8mm)	16x(14.1mm)
	, ,		25x(8.8mm)		25x(8.8mm)
			40x(5.6mm)		40x(5.6mm)
					· · ·
Slit Illumination	0 -14mm, can be altered gradually(14mm=circle)	0 -14mm, can bo	altored gradually/14mm-circle)	0 - 9mm, can be altered gradually (9mm=circle)	0 -14mm, can be altered gradually(14mm=circle)
Slit Length	1-14mm, can be altered gradually(14mm=circle)	0 -14mm, can be altered gradually(14mm=circle)		1-8mm, can be altered gradually	1-14mm, can be altered gradually(14mm=circle)
Filters	Blue, Red-Free	1-14mm, can be altered gradually(14mm=circle) Blue, Red-Free, Amber		Blue, Red-Free	Blue filter, Red-Free filter, Amber filter,
i incolo	Diue, Rea-Free			UV Cut (Normal Use), IR Cut (Normal Use)	UV Cut (normal use), IR Cut (normal use),
		UV Cut (Normal Use), IR Cut (Normal Use)		ND filter (13% transmission)	ND filter (13% transmission), exciter filter for slit lamp*,
				No litter (1576 transmission)	barrier filter for slit lamp*
					barrier filter for sitt lamp
Illumination Lamp	LED	SL-D2/D4: Halogen		Halogen	Halogen
	SL-D2/D4. Hallogen				LED
			Д., уролаго, сего		
Base					
Longitudinal Movement	90mm	90mm		90mm	90mm
Lateral Movement	100mm	100mm		100mm	100mm
Fine Base Movement	12mm	SL-D2/D4: 15mm, SL-D4LED: 12mm		12mm	12mm
Vertical Movement	30mm	30mm		30mm	30mm
Chinrest					
Vertical Movement	80mm	80mm		80mm	80mm
Power					
Input (Primary)	100-240V	100-240V		100-240V	100-240V
Frequency	50/60Hz	50/60Hz		50/60Hz	50/60Hz
Power Consumption	40VA	SL-D2/D4:160VA, SL-D4(Type:LED):110VA		80VA	110VA
,	1017.	-			
Dimensions					
w/ Table	550mm(W) x 399mm(D) x 520mm(H)	550mm x 399mm x 558mm		550mm x 430mm x 760-790mm	550mm(W) x 420mm(D) x 752 to 782mm(H)
w/ Unit Table	440mm(W) x 379mm x 558mm(H)	440mm x 379mm x 558mm		440mm x 410mm x 760-790mm	440mm(W) x 397mm(D) x 752 to 782mm(H)
w/o Table and Chinrest	329mm(W) x 293mm(D) x 414-444mm(H)	SL-D2/D4: 329mm x 306mm x 415-445mm,	SL-D4(Type:LED) 329mm(W) x 331mm(D) x 426 to 456mm(H)	312mm x 296mm x 646-676mm	329mm(W) x 331(304)mm(D) x 652 to 682mm(H)
Weight					
w/ Table	15.2 Kg	17kg		17.5kg	19kg
w/ Unit Table	14.8 Kg	16kg		17kg	18kg
w/o Table and Chinrest	8.0 Kg	9.5kg		12kg	11.5kg

$^*\,\text{A model with standard cobalt blue filter instead of the exciter/barrier filter combination is also available.}$

DC-4 Digital Camera Unit (Option)

System	Beam flux division by beam splitter		
Beam splitter division ratio	Operator side: 50%; Camera side: 50%		
Focus distance	35.7mm		
Sensor type	1/2.5 type CMOS; Effective pixel number: 5.04 M pixels		
Dimensions	76mm(W) x 163mm(D) x 304mm(H)		
Weight	430g		



Digital Camera Unit



SL-2G Slit Lamp

SL-D2

Slit Lamp



SL-D4/D4(Type:LED)
Slit Lamp



SL-D301 Slit Lamp



SL-D701 Slit Lamp

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

Not all products, services, or offers are available in all markets. Contact your local distributor for country-specific information and availability.





■ TOPCON CORPORATION

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