



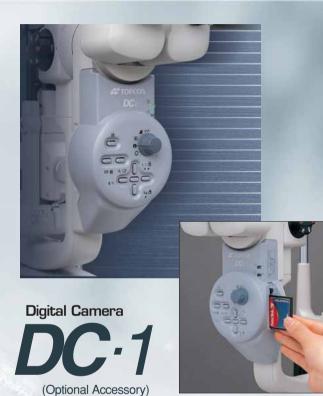
Unsurpassed Optical Quality in The First "True" Digital Slit

Ready for Digital Imaging

The Topcon SL-D Series is the first "true" digital slit lamp series that combines high optical performance with versatile digital capability. The SL-D Series incorporates excellent optics that assure optimal visualization of all structures of the eye. The instruments also incorporate unique filters to further enhance their clinical efficiency. The concept of the "true" digital slit lamp is based on the extensive range of optional digital capture devices that can be mounted on these outstanding clinical instruments. Paramount among these is the dedicated DC-1 Digital Camera that provides easy-to-capture, high quality digital images. To further advance their "digital-ready" attractiveness, an auto left/right eye detection function is incorporated into the slit lamps. These premier diagnostic instruments offer superior clinical performance with unmatched digital capability.



Lamp Series

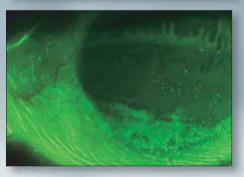


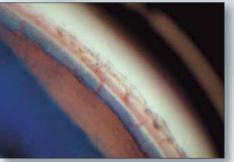
The DC-1 Digital Camera is built exclusively for the SL-D Series to provide superb digital documentation. A variety of image capture modes can be taken including still or video images. The DC-1 integrates the beam splitter, PC card storage and the high-resolution digital camera into one unobtrusive and compact system. The images captured by the DC-1 can be quickly downloaded to any PC imaging software package from a compact flash card or be directly transmitted via a USB cable. For more efficient patient database management, all of the SL-D Digital Slit Lamps can be connected to Topcon's IMAGEnet ™ Imaging Systems.

- Easy-capture with joystick button on slit lamp
- Still images and digital video recording
- 2X and 4X zoom function
- Download JPEG images via compact flash card or USB cable
- Compact and user-friendly design
- Low-flash requirement for patient comfort
- Multi language menu selection













ERIES FEATURES

Photo Attachment

SL-D7 and SL-D8Z Models (Optional Accessory)

The Topcon Photographic Attachment is specially designed for the SL-D7 and SL-D8Z to allow various DSC/CCD cameras to be used with the unique FD-21 Flash Device. The entire illumination used for image capturing is produced by a high-intensity flash tube with very short exposure time to provide superb images and additional details. Superior clarity, color-balance, resolution and depth-of-field, assist in accurate examinations. The Photographic Attachment accepts and supports an extensive range of DSC/CCD cameras, such as:

- Topcon Digital Camera DC-1
- F-mount Digital Camera Back
- Sony CCD Camera DXC-990P/390P
- Other 1/2" and 1/3" Mount CCD Cameras



IMAGEnet TM Systems (Option)

The Topcon SL-D Series is capable of inputting images and data into the Topcon IMAGEnet™ family of software products for versatile diagnostic processing and interpretation. The digital images generated can be captured for use in research, education, and clinical applications. IMAGEnet[™] 2000 is a full-function, state-of-the-art digital imaging system for faster, more efficient acquisition, storage, retrieval and analysis of all types of ophthalmic images.

Fluorescein Observation of the Anterior Segment SL-D7 and SL-D8Z Models (Factory Option)

When requested at the time of order, a special combination of optional filters can be incorporate to provide the eye care specialist with excellent fluorescein images of the anterior segment.

These efficient filters aid the practitioner in detecting abnormalities of the corneal and conjuntival epithelium while permitting the use of lower levels of light intensity for greater patient comfort.



The SL-D Series incorporates an amber filter, which can be easily inserted or removed and improves the contrast and color depth of the images.





No Ambei



 ${\it A}$ complete range of digital-ready slit lamps is SL-D7/D8Zphotographic slit lamps, the SL-D Series

 \emph{A} ll SL-D Digital Slit Lamps allow the DC-1 Digital The SL-D Series employs 12.5x hi-eyepoint eyepieces observation. A wide assortment of optional accessories

SL-D2

Three Magnification Digital Slit Lamp

The SL-D2 incorporates a parallel drum magnification changer that allows for quick and easy selection among three convenient magnifications of 10X, 16X and 25X. The SL-D2 offers the most costeffective digital imaging solution with optimal clarity, color resolution and depth-of-field.

SL-D7

Five Magnification Digital Slit Lamp

The SL-D7 incorporates a parallel drum magnification changer that allows for quick selection among five convenient magnifications of 6X, 10X, 16X, 25X and 40X. When the optional FD-21 Flash Device is incorporated, the SL-D7 converts to a 'true' digital photographic slit lamp providing exceptional images of the cornea, endothelium and fundus to enhance accurate documentation.



available to meet the clinical needs of every eye-care specialist. From the versatile SL-D2/D4 to the premier provides unprecedented image clarity, color fidelity, image definition and light transmission.

Camera to be easily attached at any time and all models incorporate a new amber filter for clear and high-contrast fundus observation. and Topcon's converging binocular tubes with a parallel magnification body for remarkably sharp and comfortable stereoscopic further expands the clinical efficiencies of the D'series.

SL-D4

Five Magnification Digital Slit Lamp

The SL-D4 incorporates a parallel drum magnification changer that allows for quick selection among five convenient magnifications of 6X, 10X, 16X, 25X and 40X. The 40X magnification is especially useful for Corneal Endothelium observation.

Encompassing a variety of ophthalmic applications, the demanding eye care specialist can produce excellent images of both the anterior and posterior structures of the eye.

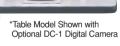
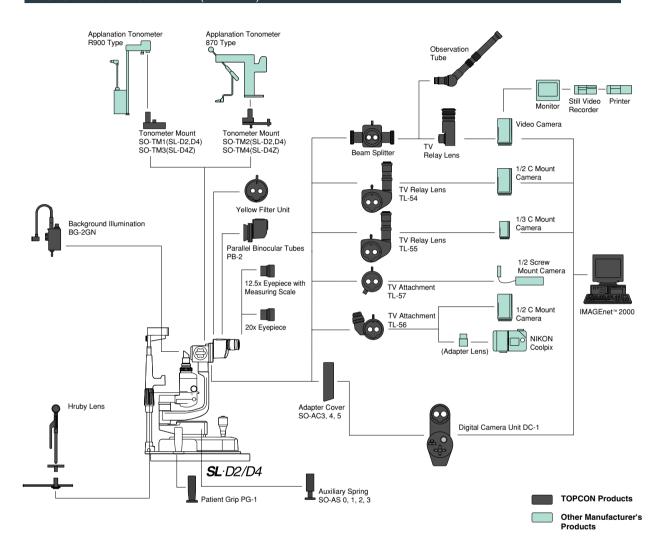




Table Model Shown with Optional F-mount Digital Camera Back

SL-D SERIES ACCESSORIES

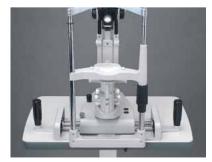
SYSTEM CONFIGURATION (SL-D2/D4)



OPTIONAL ACCESSORIES



Background Illumination **BG-2GN**

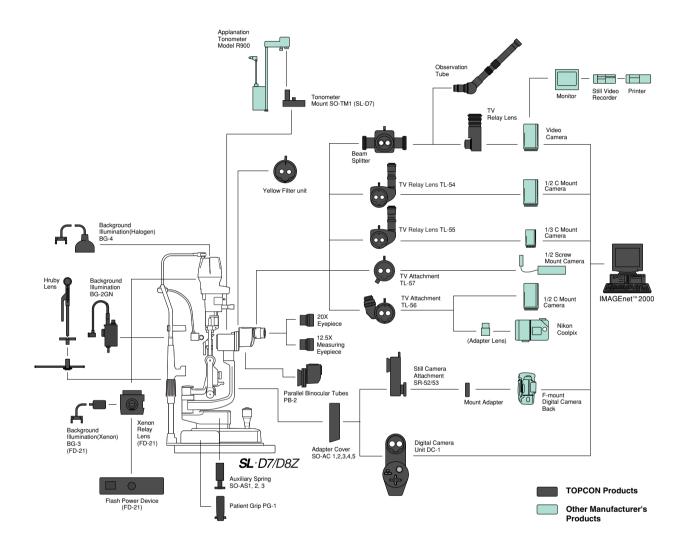


Patient Grip PG-1



TV Relay Lens TL-55

SYSTEM CONFIGURATION (SL-D7/D8Z)





Background Illumination **BG-4**



Observation Tube



Yellow Filter Unit

SL-D SERIES SPECIFICATIONS

SPECIFICATION FOR SL-D SERIES

Microscope	SL-D2	SL-D4	SL-D7
Туре	Galilean magnification changer with converging binocular tubes		
Magnification Selection	3 steps by drum rotation	5 steps by drum rotation	5 steps by drum rotation
Eyepiece	12.5x		
Magnification Ratio (Field of View)	10x (22.5mm) 16x (14.1mm) 25x (8.8mm)	6x (35.1mm) 10x (22.5mm) 16x (14.1mm) 25x (8.8mm) 40x (5.6mm)	6x (35.1mm) 10x (22.5mm) 16x (14.1mm) 25x (8.8mm) 40x (5.6mm)
Slit Illumination			
Slit Width	Continuous from 14mm to 0mm (at 14mm, slit becomes a circle)		
Slit Length	Continuous from 14mm to 1mm (at 14mm, slit becomes a circle)		
Slit Angle		0 to 180 degree with hori	zontal scanning capability
Filters	Blue, Red-F UV Cut (Normal Use)		Blue, Red-Fi UV Cut (Normal Use), ND (13% Transmissi Exciter / Barrier (
Illumination Lamp	6V , 20W ha	alogen lamp	12V , 30W ha
Base			
Longitudinal Movement	90mm		
Lateral Movement	100mm		
Fine Base Movement	15mm		
Vertical Movement		30	mm
Chinrest			
Vertical Movement	80mm		
Fixation Target	Red-	·LED	Red-LED or
Power			
Input (Primary)	100-120V, 220-240V AC		
Frequency	50/60Hz		
Power Consumption	160VA		
Dimensions			
w/ Table	550mm x 399mm x 558mm		550mm x 399mr
w/ Unit Table	440mm x 379mm x 558mm		440mm x 399mr
w/o Table and Chinrest	329mm x 306mm x 415-445mm		329mm x 306mr
Weight			
w/ Table	17kg		19kg
w/ Unit Table	16	ikg	18kg
w/o Table and Chinrest	9.5	5kg	11.5kg

SL-D8Z		
Variable via continuous zoom (Click 10X, 16X, 25X)		
Continuous from 6X~32X (35.2mm~7mm)		
ee, Amber IR Cut (Normal Use) n), Heat Insulation Factory Option)		
logen lamp		
Albita Dulla		
White-Bulb		
x 760-790mm		
x 760-790mm x 652-682mm		
19.5kg 18.5kg		
12kg		

Image Quality of CCD	3.24 million pixel images	
Exposure Mode	Auto/Manual (Shutter Speed 1-1/1000s)	
Sensitivity	Auto/ISO 100/200/400/800 (Equivalent to ISO)	
Resolution	2048x1536 (Fuji size) 1024x768,640x480	
File Type & Image Compression	Bitmap/TIFF/YUV JPEG (1/8,1/16,1/32)	
File Format	DPOF Compliant (Name of File/Date/Time/Index)	
	Exif 2.1 Compliant	
Movie Image	Motion JPEG QVGA (15fps) Maximum 60s	
Digital Zoom	1x, 2x,4x (not for movie image)	

SPECIFICATION FOR DC-1 (Optional Accessory)

NTSC/PAL

0.92kg

DC 12V

12W

USB2.0, Output the signal of

Microdrive™ Maximum 512MB

TWAIN/Mass Storage Class

224(H)x90(W)x82(D)mm

Compact Flash™ Card (Type I/II Maximum 512MB)

external trigger, R/L auto detection

Video Out

Interface

Recording

PC Interface

Dimensions

Power Source

Power Consumption

Weight

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

IMPORTANT

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