













Sun ChongQing Sunkingdom Medical Instrument Co., Ltd.

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SLIT LAMP SERIES

Ophthalmic Slit Lamp Microscope
Diagnostic Unit / Digital Unit

LS-7 SLIT LAMP

EXCELLENT OPTICAL PERFORMANCE

Excellent optical performance

1.4 times resolution better than traditional one

Details like anterior chamber flare and corneal endothelial cells
can also be displayed in the extreme



PROFESSIONAL LIGHT SOURCE SYSTEM DESIGN

Warm LED Light Source

The most suitable warm yellow light source to ensure excellent color reproduction LED can work for up to 20,000 hours, without replacement wihthin 10 years

PWM Brightness Control

Use PWM to control the brightness of light source Keep the color of light always stable no matter the degree of brightness

Continuous Illumination Control

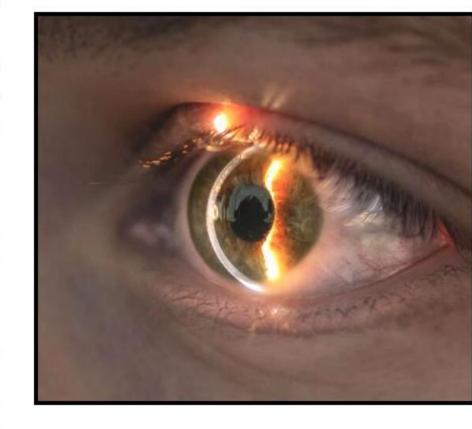
A button for continuously controlling illumination on the base Easier to operate

Filtering Infrared and Ultraviolet Light

Filtering infrared and ultraviolet light through optical lens Reduce damage to eyes of examiners and examinees

FINE MECHANICAL DESIGN

Flexible Joystick
With unique separated design
Effectively counteract reaction force when sliding

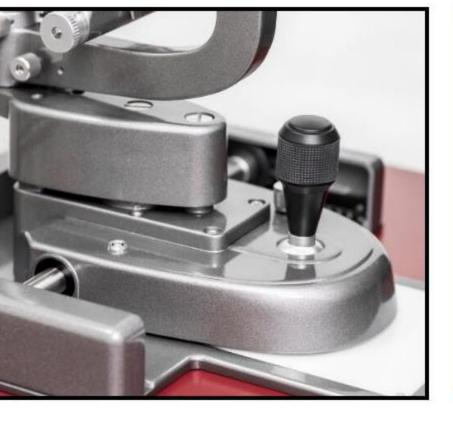












SOFT



100% BEAM SPLITTER

※ Only for LS-7DE

Eyepiece observation: 100% beam splitter
1.7 times resolution better than
traditional 4/6 beam splitter
Photo capture: 100% beam splitter
2.5 times performance of image captured
better than traditional 4/6 beam splitter

FRONT DIAPHRAGM

5-Step Diaphragms

5 Different aperture sizes
Can effectively expand the depth of field

Preliminary Design

With the design of front aperture of light path

Consistency between eyepiece and screen

LS-7DS/LS-7DE DIGITAL SLIT LAMP

ULTIMATE EXPERIENCE OF OBSERVATION AND PHOTOGRAPHING

Perfect combination of high performance and premium experience Wise choice for the world's top experts, laboratories and scientific research

LIGHT COMPENSATION SYSTEM DESIGN

※ Only for LS-7DE

Confocal Flash Compensation

Observation light source and flash compensation light source adopt the same optical path design, imaging on the same observation focal plane together Can use a very weak light source to carefully check focus
Light compensation is provided to obtain high-quality images
Comfort of the examinee is greatly improved

Flash Independent + Coaxial Background Light

Realize panoramic observation before taking photos

Provide independent angle and bright supplementary light source for taking photos

More comfortable and easier to cooperate

UPGRADED OPTICAL

Better optical effect
1.15 times optical transparency better than
traditional one

CONVERGING EYEPIECE

With angle of 6°

Better convergence and fusion effect of binocular image

Improve the comfort of long-time use of slit lamp extremely suitable for medical clinics and optometrist

FILTER INFRARED FILTER ULTRAVIOLET

Filtering infrared and ultraviolet light through optical lens to reduce damage to eyes

LIGHT SOURCE SYSTEM

Warm LED light source, suitable for observation of eye tissue

can work for up to 20,000 hours

Use PWM to ensure the brightness of light source stable all the time

Continuous illumination control to make it more convenient to operate, brightness can be adjusted as needed



UPGRADED OPTICAL

Better optical effect

1.15 times optical transparency better than traditional one

CONVERGING EYEPIECE

With angle of 6°

Better convergence and fusion effect of binocular image

Improve the comfort of long-time use of slit lamp Extremely suitable for medical clinics and optometrist

DELICATE VOLUME

Zeiss type with small size

LIGHT SOURCE SYSTEM

Warm LED light source, suitable for observation of eye tissue, can work for up to 20,000 hours
Use PWM to ensure the brightness of light source stable all the time

Continuous illumination control to make it more convenient to operate, brightness can be adjusted as needed



LS-3/4
SLIT LAMP

LS-5 DIGITAL SLIT LAMP



PARALLEL TYPE, GALILEAN SYSTEM

Stereoscopic binocular fusion

Can upgrade to teaching slit lamp and digital slit lamp

MAGNIFICATION CHANGER: REVOLVING DRUM

LS-3: 10x, 16x, 25X, 3-step magnification LS-4: 6x, 10x, 16x, 25X, 40X, 5-step magnification

LIGHT SOURCE SYSTEM UPGRADE

Warm LED light source, suitable for eye tissue for 20,000 hours

Use PWM to ensure the brightness of light source stable

Continuous illumination control makes it more convenient to operate

ADAPTIVE PARAMETERS

One key shooting can easily obtain high-quality image without heavy training of exposure, ISO, shutter speed and other parameters

MANAGEMENT SOFTWARE

More clear and direct to manage patients' information One key export is supported, making it easier to transfer data

DATA SHARING

With abundant image processing functions to meet various clinical needs DICOM, HIS/PACS is supported

OPTOMAL



YELLOW FILTER I. MODE

Special Coating Technology Excellent Dyeing Effect For LS-7 / 7DS / 7DE



YELLOW FILTER II. MODE

Special Coating Technology Excellent Dyeing Effect For LS-3 / 4 / 5



STEREO VARIATOR

For Fundus Observation
Binocular Observation Angle from 13° to 4.5°
Twice stereoscopic field Increased
Maintaining depth information
For LS-7

SPECIFICATION

ITEM	LS-3	LS-4	LS-5	LS-8	LS-9	LS-7	LS-7DS	LS-7DE	
Microscope Type	Galilean Dystem								
Magnification Changer	Revolving Drum								
Eyepiece Magnification	12.5X								
Slit Width	0mm~14mm Continuously Adjustable								
Slit Length	1mm∼14mm Continuously Adjustable								
Slit Angle	0∼180°Continuously Adjustable								
Filter	Heat Aborption, Grey, Redfree (Green), Cobalt Blue								
Light Control	PWM: Pulse Width Modulation								
Light Source	Warm LED								
Optical Effect	Basic Series			Upgrade Series		Ultimate Series			
Magnification	10X, 16X, 25X 6X, 10X, 16X, 25X, 40X			6.25X, 10X, 16X, 25X, 40X		6.3X, 10X, 16X, 25X, 40X			
Diopter	±7D			±8D		±7D			
Pupil Range	52mm-85mm			45mm-82mm		48mm-78mm			
Visual Field Diameter	6X:33mm; 10X:22mm; 16X:14mm; 25X:8.5mm; 40X:5.5mm			6.25X:33mm; 10X:22mm; 16X:14mm; 25X:8.6mm; 40X:5.6mm		6.3X:31mm; 10X:22mm; 16X:14mm; 25X:8.5mm; 40X:5.5mm			
Illumination Type	Haag-Streit Type			Zeiss type		Haag-Streit Type			
Illumination Tilting	5°,10°,15°,20°			/		5°,10°,15°,20°			
Slit Aperture Size	φ0.2, φ1, φ3, φ5, φ10, φ14 (mm)			φ0.2, φ1, φ2, φ5, φ10, φ14 (mm)					
Filter	None			Filter Infrared,Filter Ultraviolet					
Handle Operation	None			Slider Flexible Design					
Aperture Position	/	/	None	/	/	/	Beam Sp	litter Design	
Eyepiece Luminous Rate	/	/	60%	/	/	/	60%	100%	
Camera Luminous Rate	/	/	40%	/	/	/	40%	100%	
Flash System	/	/	None	/	/	/	None	Synchronous Flash System	
Background Illumination	/	/	Co-Axial	/	/	/	Co-Axial	Co-Axial + Independent	