



FUJITRON

Nothing is Invisible.....

SLIT LAMP MICROSCOPE : FSL-355H



DIGITAL PHOTO SLIT LAMP

- FSL – 355H (STUDIO - DSLR)
- FSL – 355H (STUDIO - Digi-Pro)



Digi-Pro
Imaging System



FSL 355H

★ Table, Computer, DSLR Camera / Video attachment & Monitor etc. shown in the picture are not the standard parts & may vary depending on customer's choice.

FUJITRON SLIT LAMP MICROSCOPE

FSL – 355H / STUDIO-DSLR / STUDIO-Digi-Pro

The all new innovative Fujitron FSL : 355H series of Slit Lamps are beautifully crafted out of best available technology and experienced engineering hands. Upgraded illumination system through easy focus Halogen Bulb or natural coloured high-luminance LED combined with high grade multi-coating swiss vergin-optics and apochromatic objective classify the FSL – 355H series of Slit Lamps into an outstanding class and category. An honest effort of Fujitron to prove "Nothing is Invisible".

Fujitron Studio series of Digital Photo Slit Lamps (STUDIO - DSLR) can adapt to fit many of the top digital SLR, HD cameras including **Canon & Nikon** with integrated synchronized Flash systems.

Digi-Pro a modular digital built-in imaging system incorporated with unique CMOS, CCD device and image analysis software can convert FSL – 355H to an outstanding Digital Photo Slit Lamp required by a Professional Ophthalmic Photographer.

CLASSIC FEATURES :

- Newly designed widefield optics with high Eye Point Eye Piece & apochromatic objective.
- Higher depth perception with 40x magnification can help to observe Corneal Endothelial Cells.
- High grade multi-coated swiss optics ensures prolonged quality performance with sharp & bright image without any flare and ghost.
- Improved working distance allows easy-retinal exams with diagnostic lenses.
- Five Step smooth Rotating Drum-Magnification System.
- Co-axial back ground illumination (optional) with diffuser helps in perfect anterior imaging.
- Easy Future Upgradation to "STUDIO – DSLR" or "STUDIO – Digi-Pro" Photo Slit Lamp system.
- Easy Interfacing with any posterior laser delivery adapters and Goldman Applanation Tonometers.

TECHNICAL SPECIFICATION :



MICROSCOPE	FSL : 355H	FSL : 355H STUDIO-DSLR	FSL : 355H STUDIO -Digi-Pro
Type	Galilean-Type Converging Binocular Microscope	Professional HD DSLR Camera 10 - 24 MP with image analyzing & processing software	* Professional Digital imaging Slit Lamp with Digi-Pro System. Camera attachment (2 MP, CCD)
Magnification Changer	5-Step Drum Rotation	* Integrated Flash Synchronized with Slit, Background illumination & Shutter release	* Camera : 1/2-inch CMOS CCD Resolution : 1360 x 1040 Frames : 34 FPS (Frames per Second) (Make : HTC, JAPAN)
Eye Piece	12.5x High -Eye-point		
Dioptic Adjustment	± 5D	* Flexible Co - axial background illumination and built in diffuser helps while shooting.	
Total Magnification	6x, 10x, 16x, 25x, 40x	* Since mounted over Microscope Head, it provides easy access to patient, while imaging with diagnostic lens.	* Digi-Pro a perfect built-in modular system with almost no maintenance & requires no special training to operate.
Field of View	Ø34, Ø21, Ø14, Ø8.5, Ø5.5 mm		
Objective Lens / Focal Distance	Apochromatic / F = 103 mm	* Auto image storing in computer for future study & sharing with Professional image analyzing and processing software.	
Inter Pupillary Distance	52 mm - 90 mm	* Dynamic 1080P HD video recording function (Optional)	
SLIT ILLUMINATION SYSTEM			
Slit Width & Height	0 - 14 mm continuous	FUJITRON DIGITAL SLIT LAMP IMAGE PROCESSING SOFTWARE	
Slit Rotation	0 - 180° Adjustable	1. RGB adjust 2. Brightness, contrast adjust 3. Filter: sharp, Blur, Gamma adjust 4. Trim: Arrange the pictures with big size 7. Cascade: overlap the pictures 8. Arrange: arrange the image with small size 9. Delete: delete the image that do not want 10. Local: Local amplification image 11. Zoom in/Zoom out 12. Undo: cancel previous operate 13. Redo: recover previous operate 14. Gray: change color to gray image 15. Rect: Mark the image with the box 16. Ellip: Mark the image with circle 17. Range: Mark the image with irregular 18. Arrow: Mark the image with arrow 19. Note: note content on the image 20. Dist: measure the image size 21. Area: measure the image area 22. Dicom 3.0 (optional)	
Aperture Size (in mm)	0.2 / 1 / 2 / 5 / 10 / 14 mm	RECOMMENDED PC SPECIFICATION	
Filters	Heat absorption, green (Red Free), Cobalt Blue & Grey (10%), Diffuser, Yellow (Optional)	* Window XP - 32 bits or Window 7 / 8 - 64 bits * Processor - Intel Core i3 / i7 recommended * Ram - 4 GB or more * HDD - 500 GB or more * Ports - Min - 2 nos. USB - 2 * Back Up Drive - External HD - LAN / DVD RW * Monitor - 1600 x 900 * Keyboard & Mouse	
Illumination / Lamp	12V/50W Halogen or Natural Colored high-luminance LED (Optional)		
Illumination Control	4 Steps or Stepless (Optional)		
Intensity of Illumination	Halogen : 1,50,000 Lux & LED : 1,00,000 Lux		
Fixation Lamp	Red LED		
CHIN REST HEIGHT SHIFT	± 40 mm		
BASE (JOY STICK) SHIFT			
BASE Movement	X Axis - 10mm Y Axis - 78mm Z Axis - 33mm		
Joy Stick Movement	Height Shift by Joystick ± 16.5 mm		
ELECTRICAL			
Power Supply / Consumption	(12V / 50W) LAMP TYPE HALOGEN 110V / 220V AC, 50-60 Hz / 60W		
Power Supply / Consumption	High Luminance LED (10W), 12V DC / (Natural Coloured) LED 700 mA through 220V AC/50-60Hz / 15W		
PACKING			
Size / Weight (w/o Mot. Table)	700 mm (L) x 545 mm (W) x 500mm (H) / GWT - 25 Kg / NWT - 20 Kg	895 mm (L) x 530 mm (W) x 500 mm (H) / GWT - 27 Kg / NWT - 21 Kg	
GENERAL			
Standard Accessories	Power Cable, Dust Cover, Halogen Lamp, Mirror, Test Bar, Operation Manual		
Optional Accessories	Applanation Tonometer, Photography Attachment, Observation Tube, Laser Interface, Retinal Viewing Yellow Filter & Motorized Table		

Note : * Normal FSL : 355H Slit Lamp features are common except addition of DSLR camera or Digi-Pro Imaging System in case of Studio Modes
* All Fujitron Slit Lamps are compatible with Posterior Segment Laser delivery adapters.

Manufactured for Fujitron Ophthalmic Inc by CKRS&T Co. Ltd., PRC

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