

# HUVITZ SLIT LAMP SERIES & IMAGING SYSTEM





HUVITZ  
MICROSCOPE SLIT LAMP

40

20

6

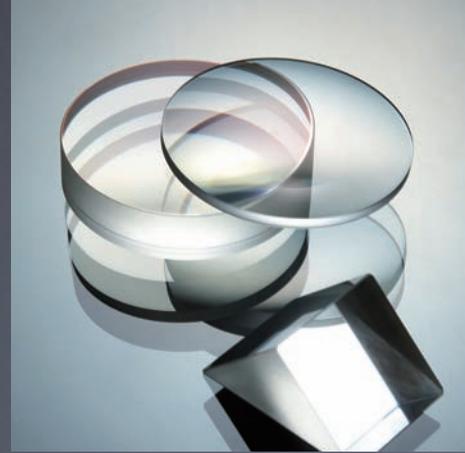
16

150 140 130 120 110 100 90 80 70 60 50

## Advanced optic system, a remarkable difference.

The industry-leading manufacturer, Huvitz, presents a high quality, world-class optic system applied slit lamp series manufactured based on information and experience within the market.

The slit lamp is manufactured beyond the industry standard.



# HUVITZ SLIT LAMP HS-7000 / HS-7500



# Ultra high end optic system chosen by the most experienced professionals in the industry: HS-7000 and HS-7500

## MICROSCOPE

With the global standard Galilean converging binocular type optic system, the Huvitz high end slit lamp series offers a wider angle, live image and increased accuracy. In conclusion, this slit lamp series offers a better and more successful diagnosis.

We invite you to compare our slit lamp series with the competitors analyzing color aberration; view angle and image color clarity.

- 12.5x eye pieces / 6x: 38.5mm, 10x: 22.2mm, 16x: 15.2mm, 25x: 10.5mm, 40x: 6.7mm
- 10x eye pieces(Optional) / 5x: 38.5mm, 8x: 24mm, 12x: 15mm, 20x: 9mm, 32x: 6mm



## ILLUMINATION

The 12-volt, 30-watt high luminance halogen lamp provides incredible clarity for both image and video.



## DESIGN

The slit lamps are offered in the Tower Illumination type (HS-7000) and the Integrated Illumination type (HS-7500) slit lamp models.

Both types are designed in the industry standard type models used for their proven accuracy and reliability.

## MAGNIFICATION CONTROL SYSTEM

The five-position drum-style magnification changer provides a wide range of magnification from 6x to 40x easily accessible by rotating the drum.

The design of this system and the uniquely designed Huvitz optic system allows you to offer a more accurate diagnosis and observation to patients without any image distortion in any magnification level.

## YELLOW FILTER

A yellow filter is conveniently located near the ocular for effortless insertion of the fluorescein pattern.

With a control lever, any filters are easily inserted.

(Options include cobalt blue, red free, heat absorption, grey, and yellow.)



## INTEGRATED CONTROL

The integrated omni style joystick is simple to control.

A trigger button is conveniently mounted on the joystick for easy image and video capture.

Images and videos can be stored simultaneously if the slit lamp is connected to image devices.



# HUVITZ SLIT LAMP HS-5500 / HS-5000



See the difference by looking through the Huvitz Slit Lamp chosen by opinion leaders in the industry: HS-5000 and HS-5500

### ILLUMINATION

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The light source is a 12-volt, 30-watt high luminance halogen lamp that provides incredible clarity in both the Tower Illumination and Integrated Illumination type slit lamps.



### MICROSCOPE

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HS-5000 and HS-5500 deliver crisp images and a wide field of view with the global standard Galilean Converging Binocular optical system.

(6x:38.5mm, 10x:22.2mm, 16x:15.2mm, 25x:10.5mm, 40x:6.7mm)



### DESIGN

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The slit lamps are offered in the Tower Illumination type (HS-5000) and the Integrated Illumination type (HS-5500) slit lamp models.

Both types are designed in the industry standard type models used for their proven accuracy and reliability.

### MAGNIFICATION CONTROL SYSTEM

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The five-position drum-style magnification changer provides a wide range of magnification from 6x to 40x easily accessible by rotating the drum.

The design of this system and the uniquely designed Huvitz optic system allows you to offer a more accurate diagnosis and observation to patients without any image distortion in any magnification level.



### YELLOW FILTER

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A yellow filter is conveniently located near the ocular for effortless insertion of the fluorescein pattern.

With a control lever, any filters are easily inserted.

(Options include cobalt blue, red free, heat absorption, grey, and yellow.)

### INTEGRATED CONTROL

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The integrated omni style joystick is simple to control.

A trigger button is conveniently mounted on the joystick for easy image and video capture.

Images and videos can be stored simultaneously if the slit lamp is connected to image devices.



# HUVITZ IMAGING SYSTEM HIS-5000



# From diagnosis and patient data management to presentation and image processing: The complete kit of user-friendly image management system

## PATIENT INFORMATION MANAGEMENT

MS Access Database system allows you to search symptoms, diagnosed information, and related contents. You can also easily manage data and history of patients.



## INTUITIVE USER INTERFACE

Intuitive tree-structured user interface allows easy access to and updates of patient information without any complicated clicking.



## DIGITAL CAMERA

The IEEE 1394 interface in the Huvitz camera system offers you a high mega pixel resolution images with increased speed and a more stable data transmission than a conventional USB port transmission.



## QUICK IMAGE & VIDEO SAVING

High performance progressive scan CCD camera provides quick image capture of diagnosed images and videos in real time with a simple click on joystick button.



## POWERFUL IMAGE PROCESSING

With Live Tool graphic library, all the images such as JPG, TIFF, RAW and many more formats can be adjusted for brightness, contrast, color channel, saturation, inversion, sharpness, red-free, etc.

## IMAGE MANIPULATION FOR THE BEST DIAGNOSIS

**Compare** / The selected images can be magnified, reduced and rotated with various graphic effects for accurate comparison and diagnosis.

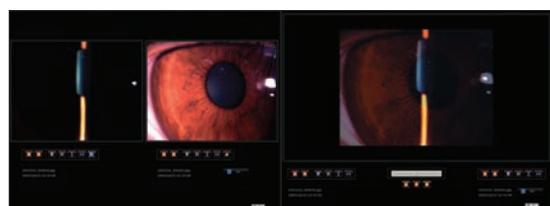
**Overlay** / Correlative animation of images captured in different time frames allows you to identify metastasis of symptoms.

**Slide Show** / All selected images can be shown in a slide show, which can be used for presentations.

**Reference** / Images of same symptoms can be registered or searched for further reference.

**Report Generation** / Automatic patients report export function in MS Word format.

**Print** / Easy single-click printing of current images.



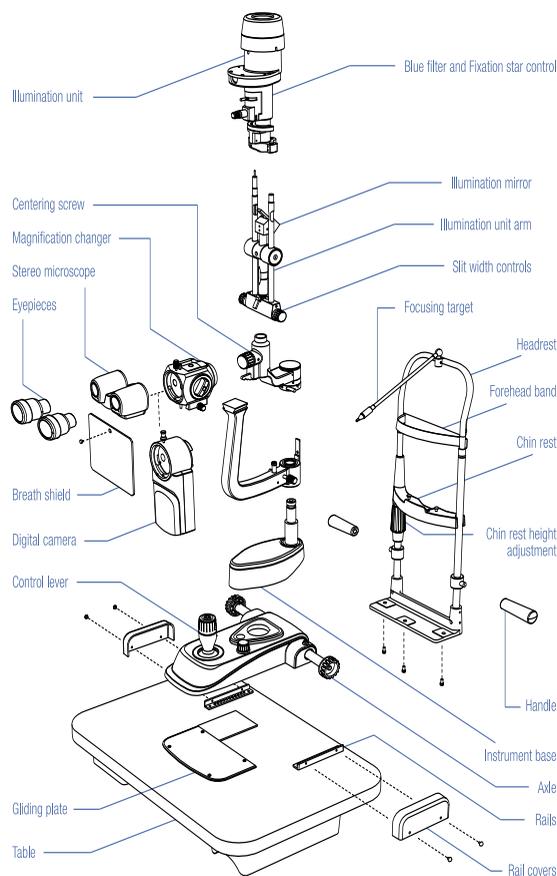
HUVITZ QUALITY, HUVITZ STANDARD



Tens of thousands of repeated electro-mechanical tests and highest international standards ensure Huvitz slit lamps' quality and durability.

### HIGH QUALITY STANDARDS

From the design and production process, all Huvitz product goals are made to be durable in extreme conditions.

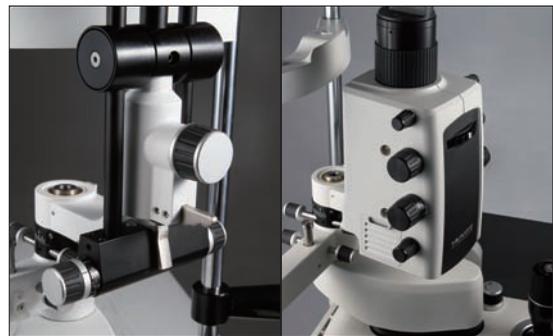


### DURABILITY ACHIEVED AFTER EXTREME TESTS

All the Huvitz slit lamps' modules and joints are designed after tens of thousands of repeated operation tests to ensure long life time usage.

### SMOOTH AND EASY PRECISION MOVEMENT

Smooth and precise movements of all operation knobs and joystick factor into making diagnostic procedures even easier.



### INTERNATIONAL QUALITY ASSURANCE

All Huvitz slit lamps are certified by the international quality assurance system as symbols below indicate.



E 237839  
 UL60601-1  
 CAN/GSA C22.2  
 NO 601-1



# SPECIFICATION

	HS-7500	HS-7000	HS-5500	HS-5000
<b>SLIT ILLUMINATION</b>	Slit length(mm)	0.3~14	0.3~12	0.3~14
	Slit width(mm)	0~14continuous	0~12 continuous	0~14 continuous
	Slit projection	1.167x	1x	1.167x
	Aperture diaphragms	HS-5000, HS-7000 : 0.3/1/3/5/9/12, HS-5500, HS-7500 : 0.3/2.5/3.5/7/10/14		
	Filters	Cobalt blue, Red-free, Grey, Heat absorption and Yellow		
	Slit rotation	0°~180° continuous		
<b>PATIENT'S EYE / PRISM</b>	Angle of incidence	0°~20° continuous	0°, 5°, 10°, 15°, 20°	0°~20° continuous
	Surface working distance	66mm	80mm	66mm
<b>MICROSCOPE</b>	Type	Galilean converging binocular		
	Magnification	5 position rotating drum		5 position rotating drum [HS-5000] 3 position rotating drum [HS-5000(X3)] 2 position rotating drum [HS-5000(X2)]
	Eyepieces	12.5x(10x)	12.5x	
	Total magnifications	6x, 10x, 16x, 25x, 40x		6x, 10x, 16x, 25x, 40x [HS-5000] 10x, 16x, 25x [HS-5000(X3)] 10x, 16x [HS-5000(X2)]
	Real fields of view (mm)	38.5, 24, 15, 9, 6	38.5, 22.2, 15.2, 10.5, 6.1	38.5, 22.5, 15.2, 10.5, 6.1 [HS-5000] 22.2, 15.2, 10.5 [HS-5000(X3)] 22.2, 15.2 [HS-5000(X2)]
	Interpupillary adjustment	55mm~80mm		
<b>BASE</b>	Vertical movement	28mm		
	Longitudinal movement	78mm		
	Lateral movement	98mm		
	Fine base	10mm		
	Voltage frequency	50 / 60Hz		
	Power consumption	70VA		
	Instrument voltage	12V DC		
	Halogen bulb	12V 30W		
	Fixation point bulb	3.4V 20mA		
<b>DIGITAL CAMERA HIS-5000</b>		HDC 1.4C	HDC 2.0C	
	Image sensor	1/2" interline CCD		1/1.8" interline CCD
	Image size	up to 1,388 x 1,036 pixels		up to 1,600 x 1,200 pixels
	Cell size	4.65μm x 4.65μm		4.40μm x 4.40μm
	Resolution depth	8bit or 12bit Raw RGB, YUV 4:2:2		8,12,16 and 24bit digital data
	Transmit method	IEEE 1394A (6pin)		IEEE 1394B (9pin)
	Transmit speed	400Mbps		up to 800Mbps
	Frame rate	15fps, 7.5fps, 3.75fps		Maximum 30fps
	Lens mount	C-Mount		C-Mount
	Photographing	External trigger or Software trigger		External trigger or Software trigger
	Dimension	44mm (W) x 29mm (H) x 63mm (D)		44mm (W) x 29mm (H) x 58mm (D)
Power consumption	3W (12V DC, from IEEE 1394 cable)		3.4W	
<b>RECOMMENDED COMPUTER SYSTEM</b>	CPU	Pentium IV, 3GHz or Higher		
	Memory	512 MB (over 1GB recommended)		
	Video card	ATI Radeon 9200 (128MB) or similar		
	System	Microsoft Windows XP (with servicepack 3), Windows Vista, Windows 7 (32bit, 64bit)		
	Camera Interface card	Standard IEEE 1394A or 1394B interface Firewire port OHCI 1.1 compatible		
	Monitor	LCD or CRT (minimum resolution 1,280 x 1,024 pixels, over 1,600 x 1,200 pixels recommended)		

OPTION : PC, Table Designs and details can be changed without prior notice for the purposes of improvement.



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