HS-5000 / HIS-5000

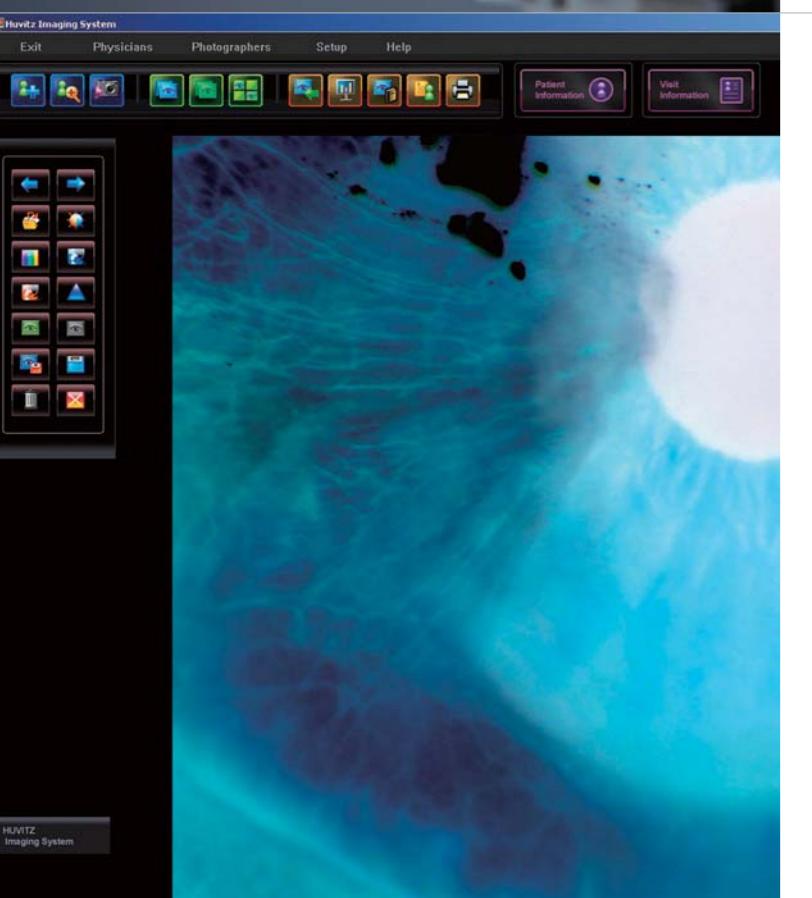## Huvitz Slit Lamp / Imaging System

Clear images and wide views!

HS-5000

Cutting-edge optic technology assures both clear images and wide views with the 5 step magnification control. Various filters tailored for the most common diagnostic scopes, and which assist with accurate diagnostic judgment.

Well-rounded applicable information!

HIS-5000

User-friendly interface and well-organized processes enable easy and fast management.
Digital image processing features present well-rounded applicable information.

SPECIFICATION

SLIT ILLUMINATION

Slit Length (mm)	0.3~12 continuous
Slit Width (mm)	0~12 continuous
Slit Projection	1x
Aperture Diaphragms	12.5x
Filters	Cobalt Blue, Red-Free, Grey and Heat Absorbing
Slit Rotation	0°~180° continuous
Angle of Incidence	0°, 5°, 10°, 15°, 20°
Patient's Eye / Prism Surface Working Distance	80mm

MICROSCOPE

Microscope	HS 5000 5x
Type	Galilean Converging Binocular
Magnification	5 Position Rotating Drum
Eyepieces	12.5x
Total Magnifications	6x, 10x, 16x, 25x, 40x
Real Fields of View (mm)	38.5, 22.2, 15.2, 10.5, 6.7
Interpupilary Adjustment	55mm~80mm

BASE

Vertical Movement	28mm
Longitudinal Movement	78mm
Lateral Movement	98mm
Fine Base	10mm
Power Supply	Free Voltage 100~240V AC
Voltage Frequency	50 / 60Hz
Power Consumption	70VA
Instrument Voltage	12V DC
Halogen Bulb	12V 30W
Fixation Point Bulb	3.4V 20mA

DIGITAL CAMERA

Image Sensor	1/2" Interline CCD
Image Size	up to 1,388 x 1,036 pixels
Cell Size	$4.65\mu m$ x $4.65\mu m$
Resolution Depth	8bit or 12bit Raw RGB, YUV 4 : 2 : 2
Transmit Method	IEEE 1394 (6pin)
Transmit Speed	400Mbps
Frame Rate	15fps, 7.5fps, 3.75fps
Lens Mount	C-Mount
Photographing	External Trigger or Software Trigger
Dimension	44mm (W) x 29mm (H) x 63mm (D)
Power Consumption	less than 3W(12V DC, from IEEE 1394 Cable)

RECOMMENDED COMPUTER SYSTEM

CPU	Pentium IV, 2GHz
Memory	512MB (over 1GB recommended)
Video Card	ATI Radeon 9200 (128MB) or similar
System	Microsoft Windows NT (with Service Pack 6), Windows 2000 (with Service Pack 4), Windows XP Microsoft Internet Explorer 6 is need. (Explorer 7 recommended)
Transmit Method	Standard IEEE1394a Firewire Port OHCI 1.1 Compatible (with auxiliary 12Vpower connector if connected to a laptop computer)
Monitor	LCD or CRT (minimum resolution 1,280 x1,024 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.

Huvitz
Pacing Progress toward People

A perfect match - The integration of the high-end Slit Lamp HS-5000 & the Imaging System HIS-5000.
HS-5000 & HIS-5000 meet professional requirements for accurate diagnoses with the utmost
convenience of data recording and management. The integrated system provides a new solution,
satisfying multi-tasking performance for diagnosis, data recording and management.

HS-5000 / Slit Lamp

HS-5000 gives you the most precise observation.

Illumination system brings extremely bright and vivid vision.

As a light source, a 12V, 30W high luminance halogen lamp gives you the highest
vividness and the purist image.

Magnification Control System that can be used in various observations.

We use a drum style, five-step magnification control system.
You can get each field of the magnified clinical image, from low to high, very easily
by just rotating the drum.

The faster and more stable IEEE 1394 interface method applied digital camera.

HS-5000 can achieve a maximum resolution of 1.45 M pixel with the IEEE 1394
interface method, which conducts image data faster and with more stability
compared with the normal USB interface method.

Great convenience with various magnifications and wide observation range.

Microscope can be operated easily and accurately.

HS-5000 gives you vivid images and a wide observation range with the
global standard Galilean Converging Binocular optical system.
(6x : 38.5mm, 10x : 22.2mm, 16x : 15.2mm, 25x : 10.5mm, 40x : 6.7mm)

**Integrated control handle, easily operated one-handed.**

The integrated control handle is simple to control.
For finer movement there is a trigger button mounted on the joystick.
Images can be stored simultaneously if the HS-5000 is connected to imaging devices.
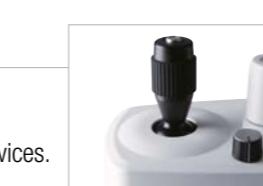
Enlargement of clinical field by using various filters.

Easily operated yellow filter for Fluoresceine

The Interior mounted yellow filter is easily operated by pushing a knob when you
use Fluoresceine solution.
(Filters : Cobalt Blue, Red-Free, Heat Absorption, Grey, Yellow Filters)
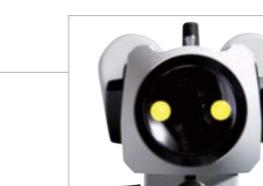
HIS-5000 / Imaging System

Intuitive and user-friendly information management and processing.

Easy and user-friendly patient information management.

MS Access Database-based system allows you to search and easily
manage diagnosed information, 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.

Real time quick image saving

High performance progressive scan CCD camera provides quick image
capture of diagnosed images in real time.

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
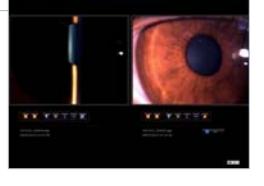channel, saturation, inversion, sharpness, red-free, etc.

Image manipulation for maximum 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 identify metastasis of symptoms.

[Slide Show]
All selected images can be shown in a slide show, which can be used for
presentations.
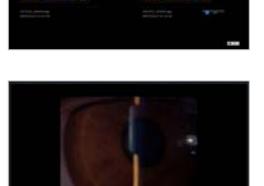
[Reference]
Images of same symptoms can be registered or searched for the further
reference.

[Report Generation]
Automatic patients' report export function in MS Words format.

[Print]
Easy single-click printing of current images.