

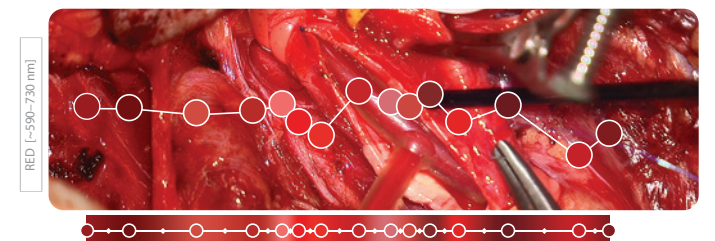


Mitaka HawkSight

8-Sensor
2x 4K Camera

Red is Finally Red

The HawkSight camera is a spectroscopic, multi-prism system that precisely separates wavelengths onto individual sensors. Subtle overlapping prevents the loss of visually important information. We paid extra attention in addressing the common red color issue. A dedicated prism enables the sensor to precisely pick up the dynamic range of red, thus visualising all the primary and secondary steps of red. This results in realistic anatomy imaging without the loss of clinically relevant details.



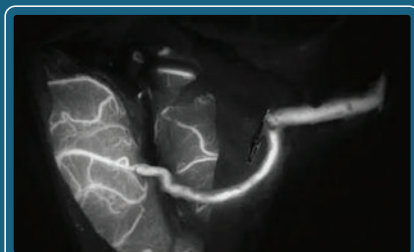
The HawkSight features two 4-sensor cameras. Three sensors are dedicated to red, blue and green visible wavelengths for exceptional color reproduction and dynamic range possible. One sensor is specially tuned for NIR fluorescence and features deep-diode technology for high sensitivity and excellent signal-to-noise ratio as well as a bright, high-contrast, and clear image.

Latency Free Display

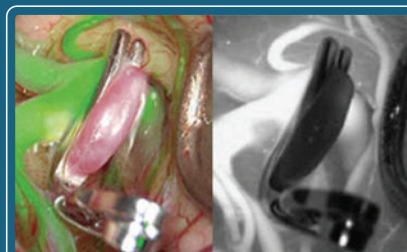
Surgeons have to make split-second decisions and even the slightest latency can be stressful. With HawkSight, there is no recognizable delay between the surgeon operating and the images being displayed on the monitor.

This microscope system is the first in the world to enable the simultaneous observation of visible and NIR light with one 8-sensor camera system. Invisible light wavelengths reaching the ultra-sensitive sensors are precisely filtered by dedicated prisms and amplified, so that a low-noise NIR image can be presented or superimposed over the visible light image. Bright 4K3D images are available for all modes.

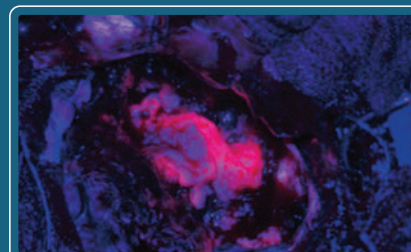
ICG Fluorescence



ICG / Visible Overlay

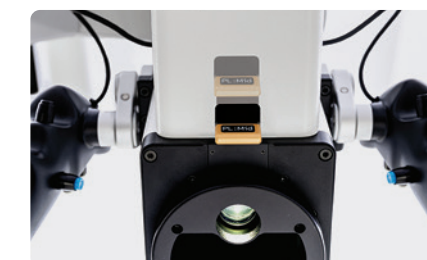


5-ALA Fluorescence



Focal Depth Adjustment

As the magnification and resolution increase, it may be necessary to widen the depth of focus. With one button push, you can narrow the light iris to increase the focal depth.



Polarization Filter

In addition to the anti-flicker algorithm, the camera incorporates a manual switchover polarizing filter to quickly get rid of light reflections from instruments or other solid or liquid structures.



Hands-Free Micromovements

Motorized XY-tilting of the microscope head is available via a hand grip and foot switch. Foot control allows for remote micromovements of the image axis and fine adjustment of the field of view.

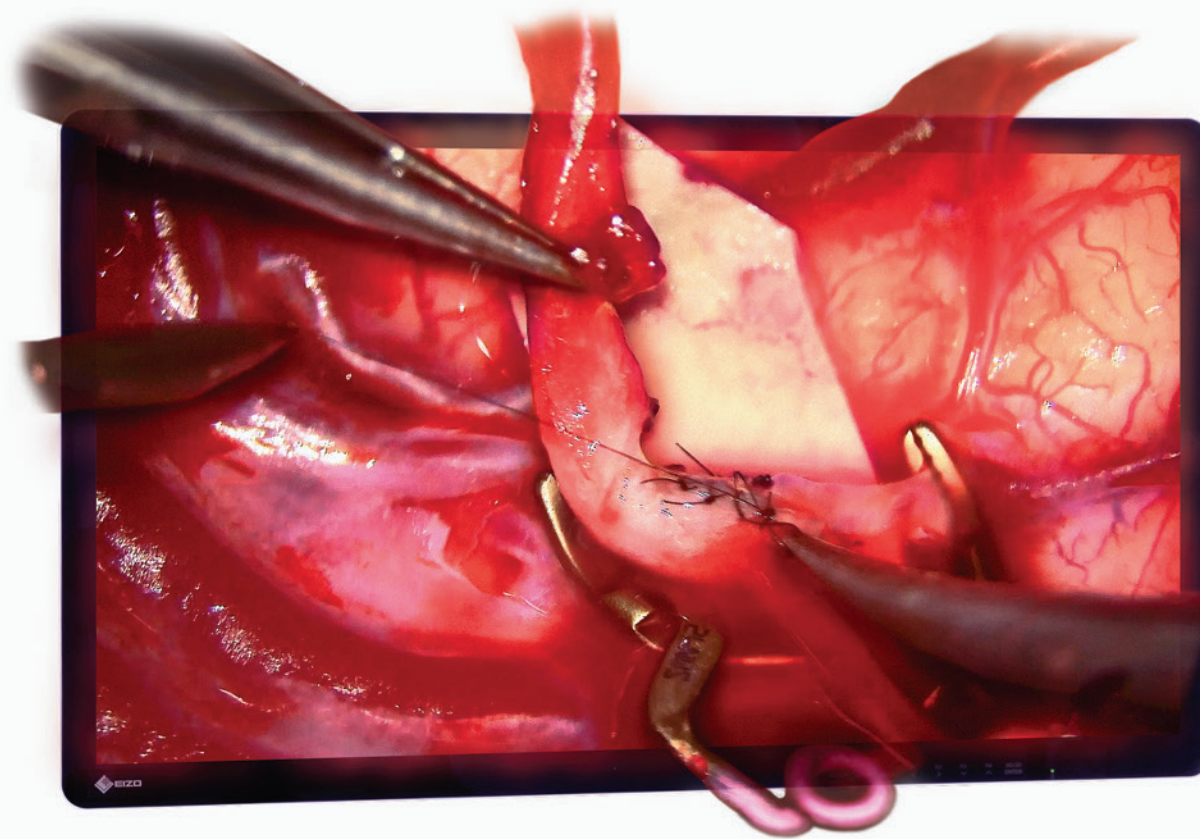
Mitaka HawkSight

Unparalleled Working Distance Range 200mm - 1000mm

Comprehensively supports surgeons from any angle

With a specially designed optical platform the HawkSight's 4K3D cameras provides extremely bright and high-resolution 3D images.

The unique design provides an unparalleled working distance range of as little as 200mm and as much as 1000mm. This setup offers a high degree of flexibility and increases intraoperative ergonomics and comfort thus enabling more efficient workflow and preserving dexterity.



8:1
Zoom Ratio

Versatile Zoom Ratio

HawkSight has a motorized 8:1 zoom, giving a versatile range of magnification of a specific area without changing the working distance or causing disorientation.

**OFFSET
ARM**

Unobstructed View

When working in deep cavities, the exoscope head can be moved to achieve more resolution and magnification. The unique offset arm prevents the optical head from disrupting view of the 3D monitor.

AF
Autofocus-Capable

WD Setup Made Easy

Due to the incomparably wide range of focal lengths, HawkSight has an autofocus function that quickly adapts the working distance needed by the surgeon.



"Zero-weight" Balancing

The superb quality of Mitaka's precision mechanics - starting through our work for the space industry - means positioning a Mitaka HawkSight has a "zero-weight" feeling. All movements are in perfect counter-balance and are thus extremely smooth and accurate.



Vibration Absorption

The stand has the unique Mitaka shock-absorbing system, which was developed for astronomical telescopes. Vibrations caused by external forces are eliminated as well as those generated while maneuvering. This system has been perfected for microscopes and proven in action for decades.