

CR3 WEARABLE MONITOR

Purpose-built for surgery



DESIGNED FOR:

- Robotic Surgery
- Minimally Invasive Surgery
- Microscopic Surgery
- Interventional Procedures

Seeing minimally invasive surgery like never before – Headmounted Display right in front of your eyes.

Immersed in surgical details.

Seeing what you need to see, when and where you need to see. Viewing the surgery right in front of your eyes, with clarity and precision. In real time and with meaningful information to guide your surgical decisions.



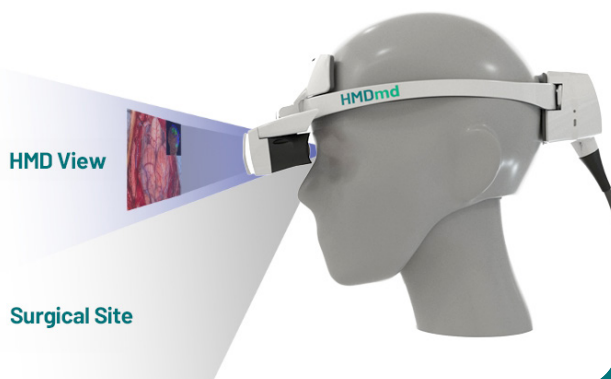
3D and 2D with high acuity

Natural 3D. The left video feed is delivered to the left eye, the right feed to the right eye. No need for polarizing filters that may degrade image quality. Optical resolution so high we are approaching the limits of visual acuity. Even in 2D.

High color fidelity

When you're operating on anatomical structures, color differentiation makes a big difference. Small color variations can mean the difference between tumorous and healthy tissue. Small differences in color matter and these differences are now visible in high fidelity.

HMDmd



Situational awareness.

Staying immersed in your surgery. But with the flexibility to look around and participate in your Operating Room environment.

Being able to see an instrument being passed to you. Not having to look away from the site, not having to look up or down. Just putting your hand out, seeing your hand, seeing the instrument, and then going back to your task.

Lightweight and comfortable.

Our wearable monitor is very lightweight, 260 grams, and optimally balanced for comfort. Our wearable monitor is designed specifically to be worn during surgery with critical feedback from surgeons. Optimally designed for ergonomics, without compromising optical quality and visual acuity. Your proficiency and wellbeing are important.

You don't compromise, and neither does HMDmd.



The problem & our solution.

Ergonomic Strain & Visualization Limitations in Surgery.

Traditional surgical monitors and microscopes require surgeons to adopt awkward postures, leading to fatigue, discomfort, and long-term musculoskeletal injuries. 82%+ of surgeons report pain while operating, which affects performance and can shorten their careers.



After a few minutes, you might
forget that you are wearing one.

82%

of surgeons report
pain and fatigue while
operating.

69%

of surgeons experience
significant discomfort,
and many are forced into
early retirement

*Annals of Medicine and Surgery,
Volume 27, March 2018, pages 1-8

problem

Technical Data

PROPERTY	DESCRIPTION / VALUE
Display Type	OLED
Field-of-View	Horizontal 35° Vertical 20° Diagonal 40°
Video Input Format	3840x2160p @50, 59.94 and 60Hz, 1920x1080p @50, 59.94 and 60Hz (Native 1920x1080p @60Hz)
Video Interface	Dual Channel SDI (BNC)
Power Interface	USB-C (or USB-C to USB-A adapter)
Perceived Weight	260g (as worn, headset portion only) 350g (as worn, headset plus 1 meter of cable)*
Cable length	~4.5m (15 feet)
Operating Conditions	+50°F to +95°F (+10°C to +35°C)
Storage, transport and shipping conditions	-5°F to +140°F (-20°C to +60°C)

* Where cable clips to the surgical gown.

Specifications are subject to change without notice.



Connect to your favorite imaging platform.

Plug-and-play connection via standard video connection.

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Made in USA

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