

See through a different lens

Smith-Nephew

LENS 4K Surgical Imaging System

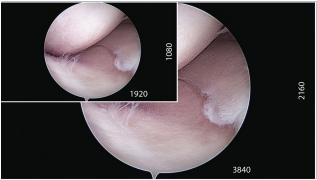
Value you've been waiting for

Excellent 4K UHD image quality¹ and network connectivity in a 3-in-1 console for multispecialty environments

You want the very best image quality and intuitive operation to help minimize unnecessary procedure time with minimal equipment. The LENS 4K Surgical Imaging System is a surgical video platform with the latest 4K technology designed for sports medicine and multispecialty centers for use in arthroscopic and endoscopic procedures to maximize your overall investment.

With native 3840 x 2160 resolution, the LENS 4K system provides detailed images with four times as many pixels as HD and over 1 billion colors (10 bit) creating impressive color reproduction, image clarity and enhanced depth of field.^{1,2}





Benefits of LENS 4K

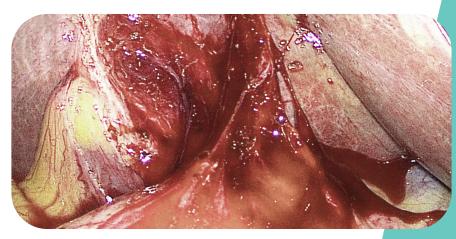
- Four times the pixel resolution of HD and over 1 billion colors create vivid images and color reproduction²
- Newly designed, ergonomic 4K camera head
- 4K UHD native Smith+Nephew's proprietary 3-CMOS (complementary metal oxide semiconductor) sensor designed to reduce artifacts and optimize resolution
- Improved Smith+Nephew proprietary 4K real-time image processing designed to reduce flare and enhanced depth of field
- Control camera functions and image management outside the sterile field with the LENS Connected Tower Application
- Flexible integration and connectivity options to support your unique workflow

Not all 4K is alike

The LENS 4K system combines the latest in 4K (UHD) 3-CMOS sensor technology with our proprietary image and light processing algorithms maximized for surgical applications. This combination results in clarity and realistic colors.

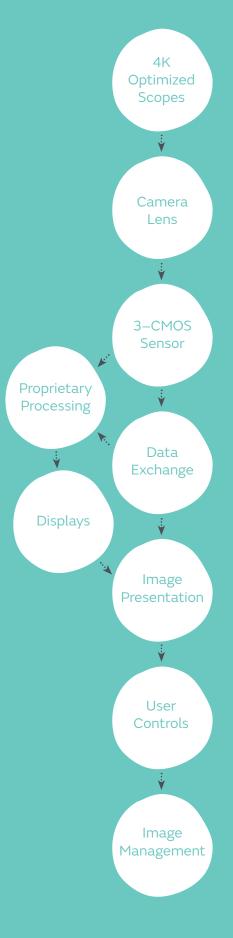
CMOS camera designs require precision when aligning each of the three sensors to optimize processing for red, green and blue (RGB) pixels. LENS 4K uses proprietary processing to align the red, green & blue images from the 3 sensors designed to produce rich color depth and image sharpness even when zooming into a region of interest.

Unlike single-sensor surgical camera solutions, which may lead to inaccurate colors or resolution degradation, the LENS 4K system uses native 4K processing, retaining full RGB pixels to capture subtle color differences. For example, visualize a bright white condyle or hue variations in the anatomy in the foreground, while maintaining a crisp view of the darker background.



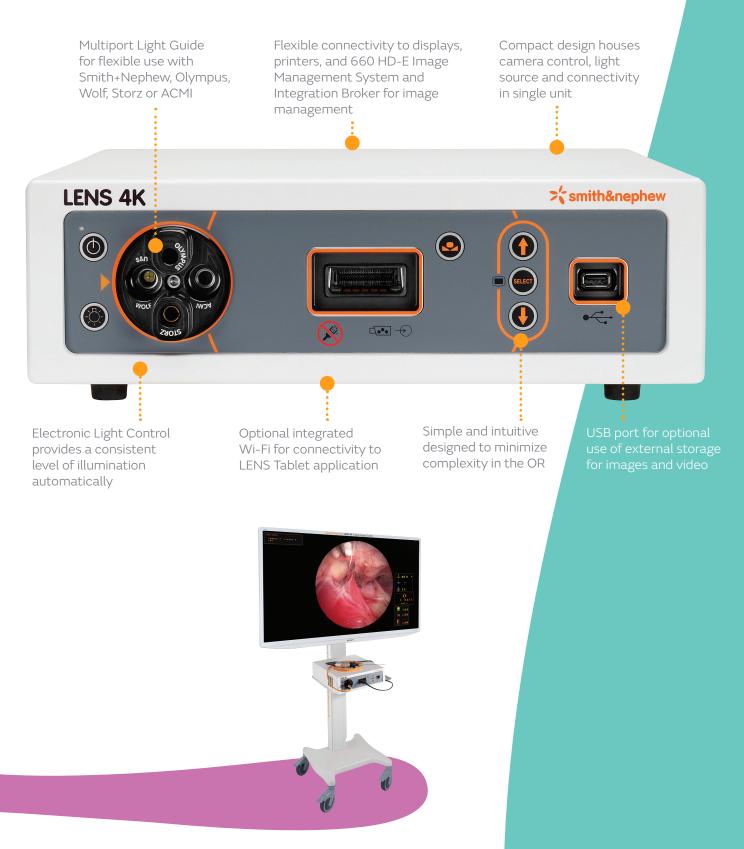
LENS 4K resolution With more than 35 years of experience in surgical video technology, Smith+Nephew developed the LENS 4K system with you in mind.

LENS 4K Image Technology Chain



LENS 4K Camera Control Unit (CCU)

Minimize equipment without compromising on the deployment options you need.



LENS 4K Camera Head

Ergonomics and balance in your hand for arthroscopy, and endoscopic surgeries

Button turret provides orientation to button placement during surgical use

Autoclavable to withstand a minimum of 300 cycles³, also compatible with Sterrad and Steris

> 4K UHD 3-CMOS sensor combines Smith+Nephew's proprietary image processing technology

> > C-mount compatible with a range of direct-view scopes, couplers and videoarthroscopes available from Smith+Nephew or third-party providers

Three programmable buttons support up to six camera functions

Soft, durable button design Features tactile feedback to help confirm selection

> Matte finish helps provide additional friction for better grip

> > Welded smooth to minimize seams for ease of cleaning

> > > CF rated to protect against electrical shock

Ergonomically shaped and • balanced to fit comfortably in the surgeon's hand

> 12' cable with durable connection to minimize wear and accommodate placement of LENS 4K CCU near the surgical field

> > Standard 2-year warranty 🔸



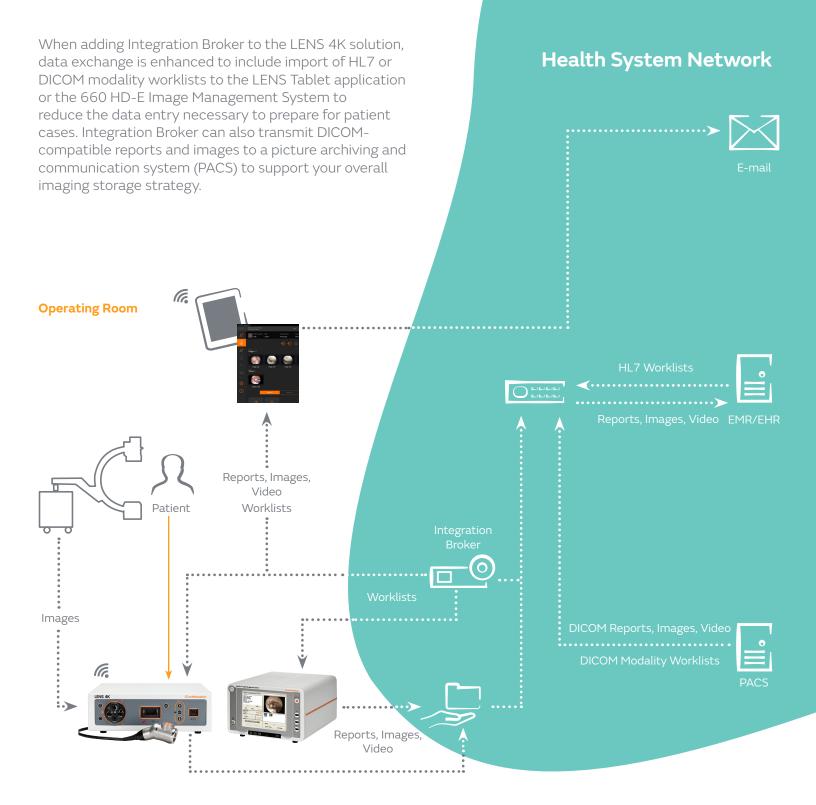
4K Optimized Scopes

Available in your choice of C-mount couplers or video arthroscopes, Smith+Nephew scopes are available in a range of diameters and lengths, providing a focus ring design that allows for single-handed light-post rotation. Autoclavable to withstand greater than 100 cycles⁴, scopes are durable and provide superb brightness and illumination.

Extend your reach beyond the surgical field

The LENS Connected Tower Application brings camera control and image management outside of the sterile field for optimal flexibility, providing staff control over camera settings, image captures, video and audio during procedures. Navigation is designed to be intuitive using the well known Apple iOS user interface and customer-supplied tablet with the LENS Connected Tower application. Post surgery, you can create customized reports to facilitate patient communication using your existing e-mail server or AirPrint.





LENS 4K: CLEAR value and connectivity across your enterprise

Ordering information

Network Enabled Camera Control Unit Kits		
Reference #	Description	
72205211	LENS 4K CCU, US	
72205212	LENS 4K CCU, German	
72205213	LENS 4K CCU, Spanish	
72205214	LENS 4K CCU, French	
72205215	LENS 4K CCU, Swedish	
72205216	LENS 4K CCU, Portuguese	
72205217	LENS 4K CCU, Danish	
72205218	LENS 4K CCU, Norwegian	
72205219	LENS 4K CCU, Dutch	
72205220	LENS 4K CCU, Korean	
72205221	LENS 4K CCU, Italian	
72205222	LENS 4K CCU, International	
72205224	LENS 4K CCU, UK (Wi-Fi Version)	

Camera Kits		
Description		
LENS 4K Camera Head, USA		
LENS 4K Camera Head, International		

Accessories		
72200315	LENS Coupler, 19.5mm	
72200422	LENS Coupler, 26.5mm	

Contact your Smith+Nephew representative for a full list of accessories.

Non-Network Camera Control Unit Kits		
72205239	LENS 4K CCU, US	
72205240	LENS 4K CCU, German	
72205241	LENS 4K CCU, Spanish	
72205242	LENS 4K CCU, French	
72205243	LENS 4K CCU, Italian	
72205244	LENS 4K CCU, Swedish	
72205245	LENS 4K CCU, Portuguese	
72205246	LENS 4K CCU, Danish	
72205247	LENS 4K CCU, Norwegian	
72205248	LENS 4K CCU, Dutch	
72205249	LENS 4K CCU, Korean	
72205250	LENS 4K CCU, International (Non-Wi-Fi)	
72205252	LENS 4K CCU, UK, (Non-Wi-Fi)	

Learn more at **smith-nephew.com**

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References

1. Smith & Nephew 2019. Lens 4K user needs design validation. 15008697 B. 2. Smith & Nephew 2019. Lens 4K image quality test. 15007295 A. 3. Smith & Nephew 2019. Lens 4K camera head functionality post sterilization and mechanical stress design verification. 15006059 A. 4. Smith & Nephew 2019. Validation report 15000975 Rev A.