

Synergy^{ID}™ Imaging

A Multispeciality Visualization Platform



■ 4K ■
Synergy^{ID}™

Arthrex® 

Recent Visualization and Integration Highlights

With more than 14,000 industry-leading surgical products on the market, we are passionate about medical innovation.

Our commitment to relentless ingenuity has been inspired by our mission: Helping Surgeons Treat Their Patients Better™.

As front-runners in surgical imaging, we designed the Synergy ecosystem to empower multispecialty clinicians and facilities with premier visualization technology, workflow efficiencies, and revolutionary instrumentation.

2012

- Release the world's first 3-in-1 camera system to free up OR space and simplify equipment setup
- Lead the industry with a breakthrough digital patient engagement app

2014

- Lead the industry with Synergy.net™ data integration software
- Release the Synergy SurgeonVault® cloud-based communication tool, providing surgeons with access to their data from any location at any time and allowing them to communicate directly with their patients

2016

- Release Synergy^{UHD4}™ system, the world's first 4K endoscopic camera system
- Synergy Matrix™ system becomes the first 4K video integration solution and the first uncompressed-video-over-IP integration solution



2019

NanoScope™ operative imaging system becomes the first medical-grade, 3-in-1, single-use camera system

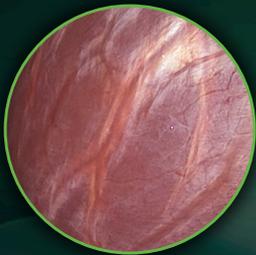
2020

Join us as we pioneer the next generation of leading-edge multispecialty visualization technology with the Synergy^{ID} imaging system.



Synergy^{ID}

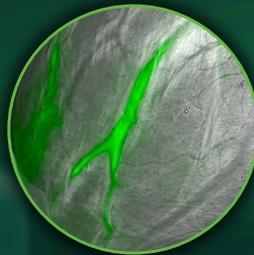
The Synergy^{ID} system combines state-of-the-art 4K visualization with superior augmented reality features, such as fluorescence imaging, to see more than ever before. Designed to offer a range of customizable surgeon preferences, the Synergy^{ID} system enables advanced visualization in virtually any surgical specialty.



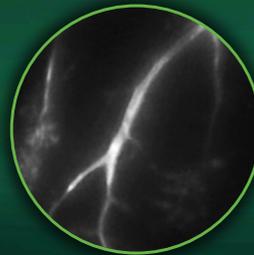
Standard visible light



Standard visible light + near-infrared (NIR) overlay



Grayscale visible light + NIR overlay



NIR only

4 Chips. 4 Modes.



ULTRA HD

Reveal the Power of Visualization

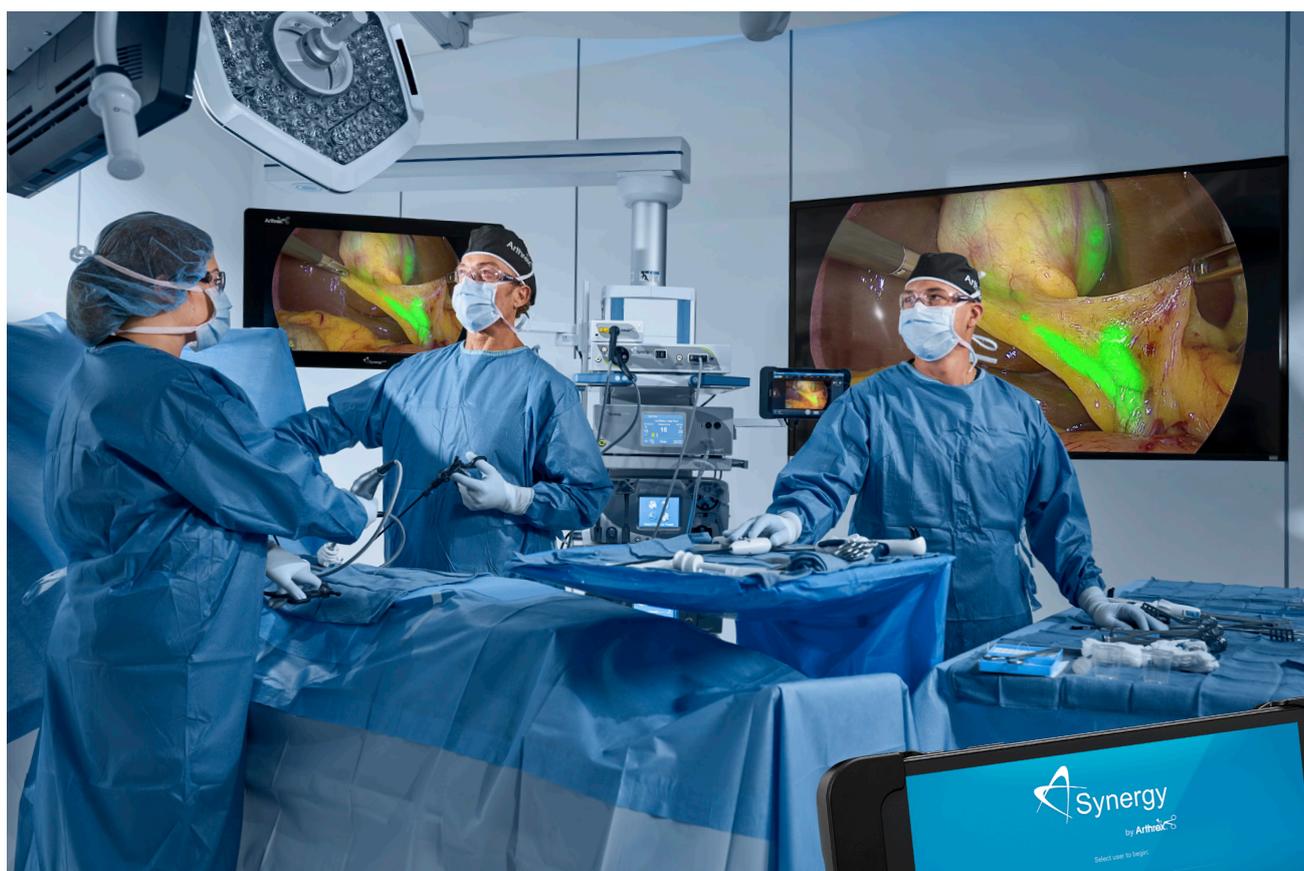
The Synergy^{HD} console contains state-of-the-art visualization, fluorescence imaging, LED lighting, image management, and integration in a small footprint. Producing outstanding 4K video for surgeons, the Synergy^{HD} system allows staff to focus on patients instead of equipment through a simple-to-use tablet-based user interface. Designed to offer a range of customizable surgeon preferences, the Synergy^{HD} system enables advanced visualization in virtually any surgical specialty.

Fully integrated near-infrared fluorescence imaging provides the ability to use different modes, in all procedures and at any time, right when you need it.

The latest generation Synergy^{HD} camera head is the world's first 4-chip camera head. Three sensors provide full 4K visible light imaging while the fourth sensor is specifically designed to support fluorescence imaging.

In addition, the system offers unparalleled 4K white light visualization featuring:

- Increased dynamic range and depth of light for unrivaled contrast and even distribution of light
- Unsurpassed depth of field for optimal sharpness from the front to the back of the image
- Brand-new imaging modes for white light color augmentation
- 4 times the number of pixels as HD and a multi-sensor camera design lead to increased resolution and a stunning depth perception
- 10-bit color for precise color reproduction
- Direct LED integration with the 4K visualization system for maximum performance



The Synergy^{ID}™ system also features the comprehensive Synergy toolbox, including:

- Secure video live streaming to any authorized remote viewer
- The Synergy Surgeon App™ application for iPad to review, edit, and annotate images and videos as well as to create reports for improved surgeon-patient communication
- The option to capture and export surgical media to USB and network locations such as PACS (DICOM) or to a network folder or EHR
- Software-based solution allows easy addition of new functionality over the life of the system

The Synergy^{ID} system offers:

- Full autoclavability, providing significant cost savings for facilities
- Programmable camera head buttons provide customized functionality to surgeons at their fingertips
- Integrated and C-mount configurations to meet customer preferences
- Portfolio of different camera heads offers customers a variety of resolutions and options at price points that meet their budgets

See more than ever before with Synergy^{ID}



One System, Multiple Specialties

Our innovative 4-in-1 console maximizes performance and minimizes hardware, meeting the needs of any surgical area.



LED Light Source

- 7-year warranty
- Light guide turret



Documentation

- Photo and video
- USB, DICOM, iPad
- SSD (128 GB)



Camera Controller

- 4K/HD
- Fluorescence (optional)



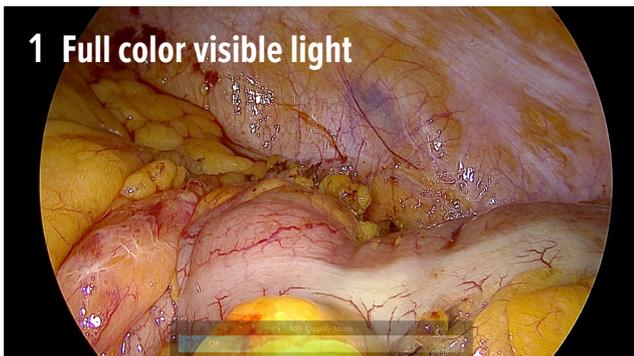
Integration

- Remote access
- Video stream



The Power of Choice

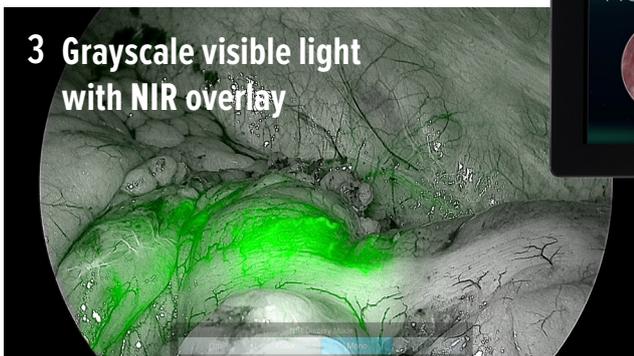
1 Full color visible light



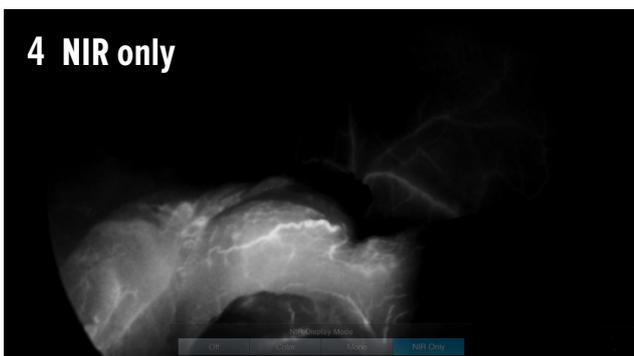
2 Full color visible light with NIR overlay



3 Grayscale visible light with NIR overlay



4 NIR only



The Synergy^{ID} system ultra-high-definition 4K camera and display show crystal-clear patient anatomy by using 4 imaging sensors to display 8 million pixels, more than 1 billion colors, fluorescence imaging, and augmented reality.

The Synergy^{ID} system was designed to prioritize surgeon preferences, streamline workflows, and maximize outcomes. Depending on the specific fluorescence application, multiple mode and color options are available, offering premier customized visualization support.

The system also offers valuable modularity, allowing critical access to the features needed today and the flexibility to scale the investment in the system based on customer needs over time.



Ordering Information

Component	Item #
4K Synergy ^{DP} Camera Head, autoclavable	AR-3210-0033
CCU, Synergy ^{DP} system	AR-3200-0025
Synergy Laser Light Source	AR-3200-1018
Fused Light Cable, bifurcated, grey	AR-3240-5045
Light Cable, bifurcated, 90°	AR-3240-5090
4K Laparoscope, 0°, 5.5 × 300 mm, HI-MAG, NIR	AR-3352-5501
4K Laparoscope, 30°, 5.5 × 300 mm, HI-MAG, NIR	AR-3352-5531
4K Laparoscope, 45°, 5.5 × 302 mm, HI-MAG, NIR	AR-3352-5546
4K Laparoscope, 0°, 10 × 330 mm, NIR	AR-3351-1001
4K Laparoscope, 30°, 10 × 330 mm, NIR	AR-3351-1031
4K Laparoscope, 45°, 10 × 333 mm, NIR	AR-3351-1046



This description of technique is provided as an educational tool and clinical aid to assist properly licensed medical professionals in the usage of specific Arthrex products. As part of this professional usage, the medical professional must use their professional judgment in making any final determinations in product usage and technique. In doing so, the medical professional should rely on their own training and experience and should conduct a thorough review of pertinent medical literature and the product's directions for use. Postoperative management is patient-specific and dependent on the treating professional's assessment. Individual results will vary and not all patients will experience the same postoperative activity level or outcomes.

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