

Synergy Vision™ Imaging System

Revolutionizing Surgical Imaging

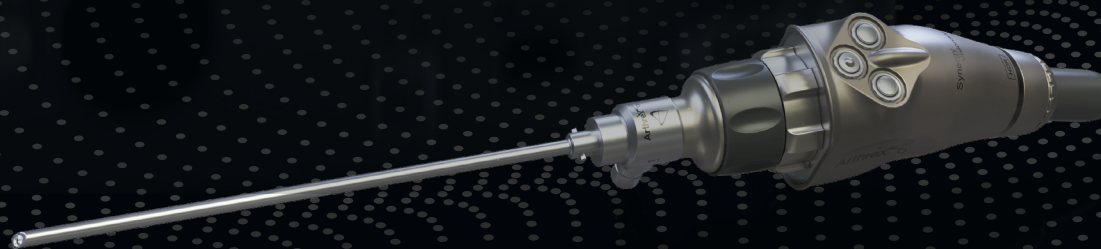


Arthrex®
Vet Systems





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The Future of Surgical Imaging Is Here

Experience the Synergy Vision™ imaging system, an all-in-one solution featuring high-dynamic-range 4K visualization with wide-view imaging and fluorescence, while also supporting the NanoNeedle™ scope and video integration.

Key Features and Benefits

The Synergy Vision imaging system was designed with the latest technology to deliver optimal, revolutionary results.

Pano™ Scope

Quickly and easily switch between traditional scope views and an ultrawide view (encompassing most of the 30° and 70° views) at the touch of a button for visualization of more anatomy on a single screen while reducing the need for additional portals or scopes.

NanoVision Functionality

The NanoNeedle scope integrates directly to the Synergy Vision console as either a primary or secondary view and offers simultaneous 4K and Nano visualization on the same screen.

Synergy Vision Connect™ Console

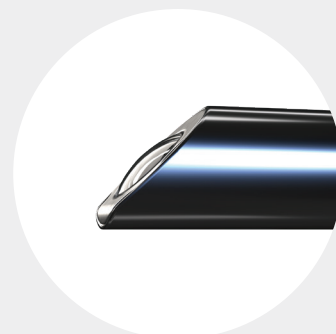
Allowing for 6 inputs and 4 outputs, the Synergy Vision Connect system offers built-in OR integration capabilities for in-room switching and routing.

High Dynamic Range

The Synergy Vision imaging system offers high dynamic range (HDR), allowing for enhanced contrast of surgical anatomy and ideal visualization.

Fluorescence Imaging

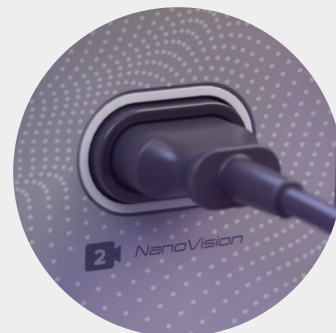
Switch to fluorescence 4K imaging with the touch of a button.



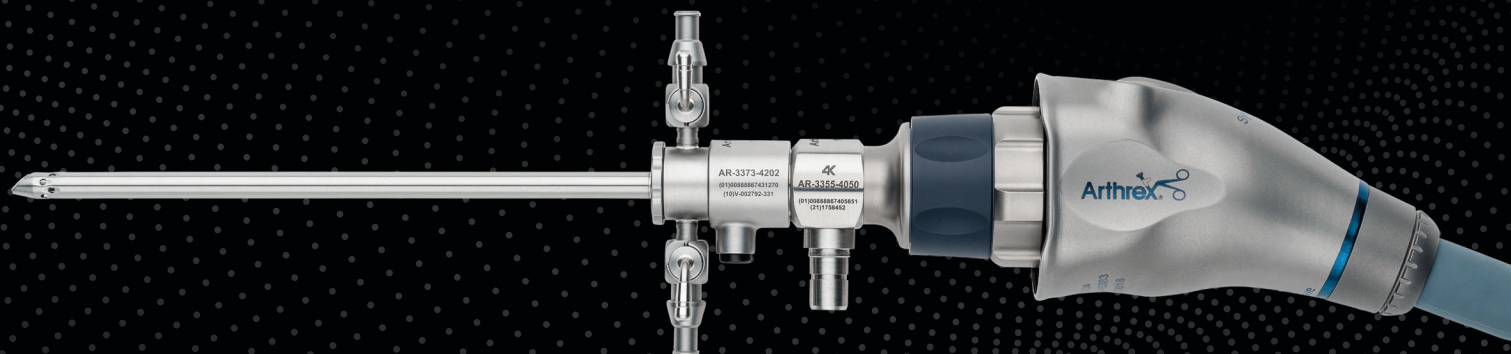
Pano scope



Fluorescence imaging



Nano Vision port



Pano™ Scope

Visualize anatomy like never before with the state-of-the-art Pano scope. Experience a range of clinical benefits, from reducing the need for additional portals to visualizing pathology with fewer movements, all made possible by the ability to change viewing direction at the push of a button.

Key Features and Benefits

The Pano™ scope is designed to work seamlessly with the Synergy Vision™ platform. When used together, they allow veterinarians to toggle between 30°, 70°, and 45° ultrawide views, providing an unprecedented field of view.

With a length of 161 mm, the Pano™ scope is optimized for a wide range of applications. Its dedicated hardware and accessories—including sheaths, cannulas, and bridges—are designed to accommodate the scope's unique length and offer the following benefits:

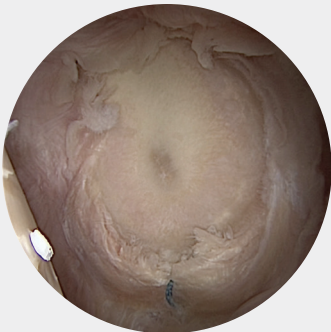
- › Potentially decreased risk of iatrogenic trauma associated with switching scopes or portals
 - › Reduced need for additional portals
- › Enhanced clinical decision-making ability
 - › Greater visualization variety of anatomical features



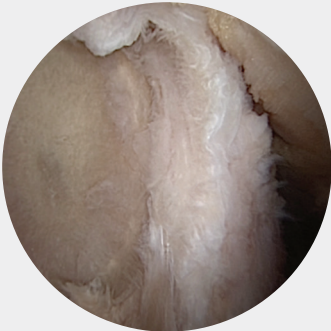
Pano scope	VAR-3355-4050
High-flow sheath for Pano scope, tapered, fenestrated, single stopcock	AR-3373-4201
High-flow sheath for Pano scope, tapered, fenestrated, double stopcock	AR-3373-4202
High-flow conical obturator for Pano scope sheath, tapered, fenestrated, w/ handle	AR-3375-4201



30°



Ultrawide view



70°



NanoVision™ Functionality

The Synergy Vision™ imaging system supports NanoVision functionality through a built-in port that connects to a NanoNeedle™ scope. This functionality enables the simultaneous use of 4K and Nano visualization, giving veterinarians access to additional views and allowing them to see more of the anatomy than with a traditional single-camera view.

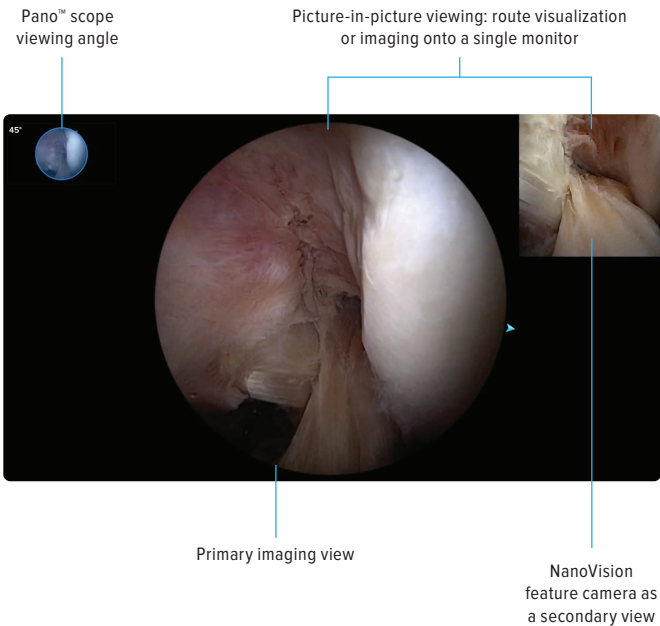
Key Features and Benefits

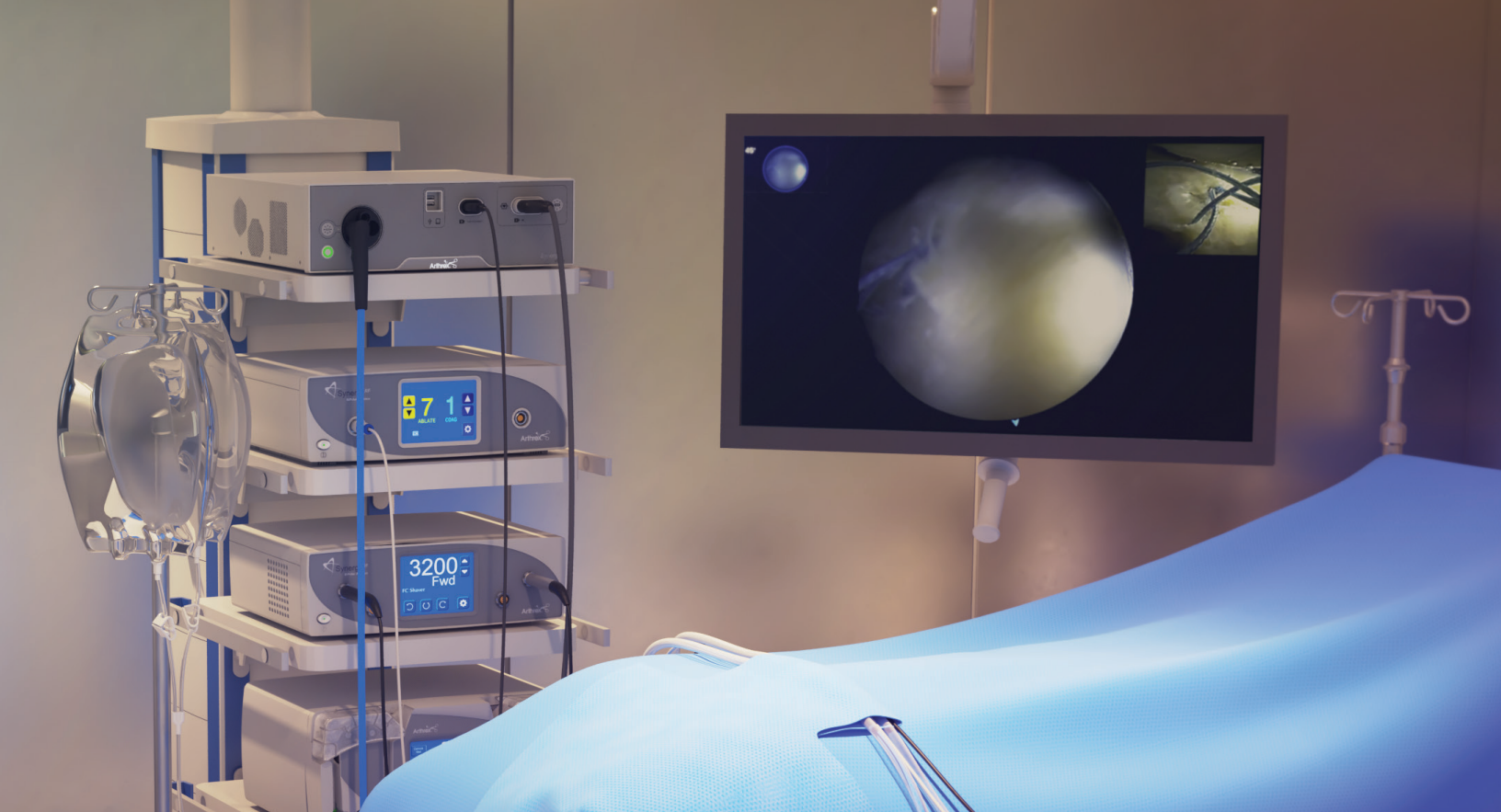
Nano arthroscopy offers a variety of benefits, including:

- › Customized anesthetic options (eg, light sedation vs general anesthetic)
- › Same-day diagnostic and surgical treatment options
- › Potential to reduce facility costs
- › Opportunity to redirect or increase cases in underused treatment and procedure rooms
- › Ability to reduce the extent of medical workup, monitoring, and general anesthetic complications
- › Ancillary surgical views not seen with a single 4K camera

NanoNeedle scope, 125 mm	AR-3210-0043
NanoNeedle scope, 180 mm	AR-3210-0044
NanoNeedle scope, 250 mm	AR-3210-0045
NanoNeedle scope 2.0, 125 mm	VAR-3210-0070
NanoNeedle scope 2.0, 180 mm	VAR-3210-0071
NanoNeedle scope 2.0, 250 mm	VAR-3210-0072

*Please refer to vLB1-000011-en-US for additional Nano arthroscopy item numbers.





Synergy Vision Connect™ Console

Explore the world's first imaging console with built-in video integration. A pioneer in visualization, Arthrex designed the Synergy Vision Connect system with a variety of capabilities, including:

- › Six video inputs and 4 unique video outputs that enable in-room surgical video routing to displays, allow compositing to create new surgical views, and support video capture
- › Generation of multiple distinctive views, including picture-in-picture (PIP), picture-by-picture (PBP), and quad-view layouts for routing and capture
- › Live visual thumbnail views of all video inputs and outputs to support streamlined and informed routing

Synergy Vision Connect console

VAR-3200-0027

Synergy Vision Connect integration software license

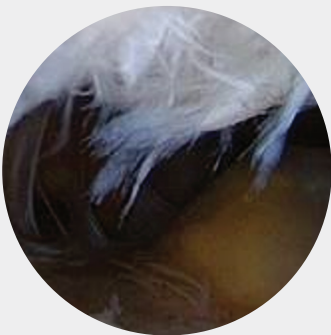
VAR-3200-1088

High Dynamic Range

The Synergy Vision™ imaging system offers the latest in imaging quality, including high dynamic range (HDR). HDR optimizes the way in which light is processed, producing images with greater detail and improved contrast compared to non-HDR imaging, ultimately providing enhanced surgical imaging.

A 32 in 4K IPS LCD surgical display supports HDR10 with backlight output stabilization and continuous, even brightness, ensuring the stability of the LCD backlight and providing clear, consistent image viewing over long periods of time. The display also supports the PIP and PBP capabilities of the Synergy systems, allowing for the display of 4 simultaneous inputs.

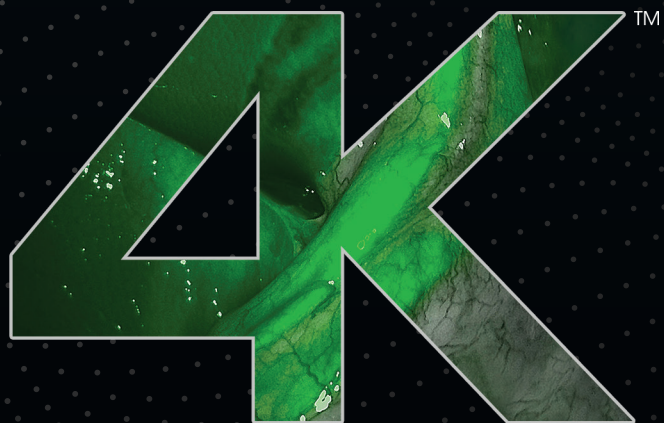
32 in HDR surgical display	VAR-3250-3212
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Visualization without HDR



Visualization with HDR



HDR ULTRA HD

Fluorescence Imaging

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

Fully integrated near-infrared (NIR) fluorescence imaging allows veterinarians to use different modes in all procedures and at any time.

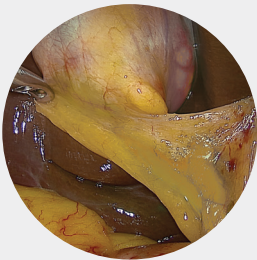
Fluorescence imaging supports multiple modes: fluorescence overlay on a full 4K visible-light image, fluorescence overlay on a grayscale 4K image, and fluorescence-only imaging. All of these modes can be easily accessed with a press of the camera-head button.

Laser light source	VAR-3200-1018
4K laparoscope, 0°, 10 mm × 330 mm, NIR	VAR-3351-1001
4K laparoscope, 30°, 10 mm × 330 mm, NIR	VAR-3351-1031
4K laparoscope, 45°, 10 mm × 333 mm, NIR	VAR-3351-1046
4K laparoscope, 0°, 5.5 mm × 300 mm, high magnification, NIR	VAR-3352-5501
4K laparoscope, 30°, 5.5 mm × 300 mm, high magnification, NIR	VAR-3352-5531
4K laparoscope, 45°, 5.5 mm × 302 mm, high magnification, NIR	VAR-3352-5546
4K open NIR scope, 0°, 10 mm × 90 mm	VAR-3352-0050

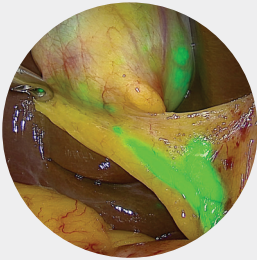
Synergy Vision™ Tablet

The Synergy Vision imaging system is a unique and innovative medical-grade tablet with an advanced touch interface that allows users to remotely and efficiently enter patient information, adjust veterinarian preferences, route video inputs, and adjust image management settings during surgical cases. The Synergy tablet controller helps reduce costs, shorten OR times, and increase overall efficiency.

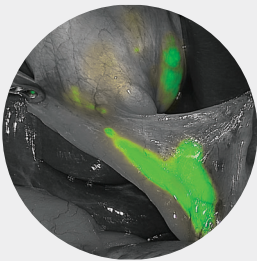
Synergy Vision tablet	VAR-3200-1016
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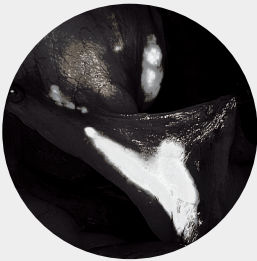
Standard visible light



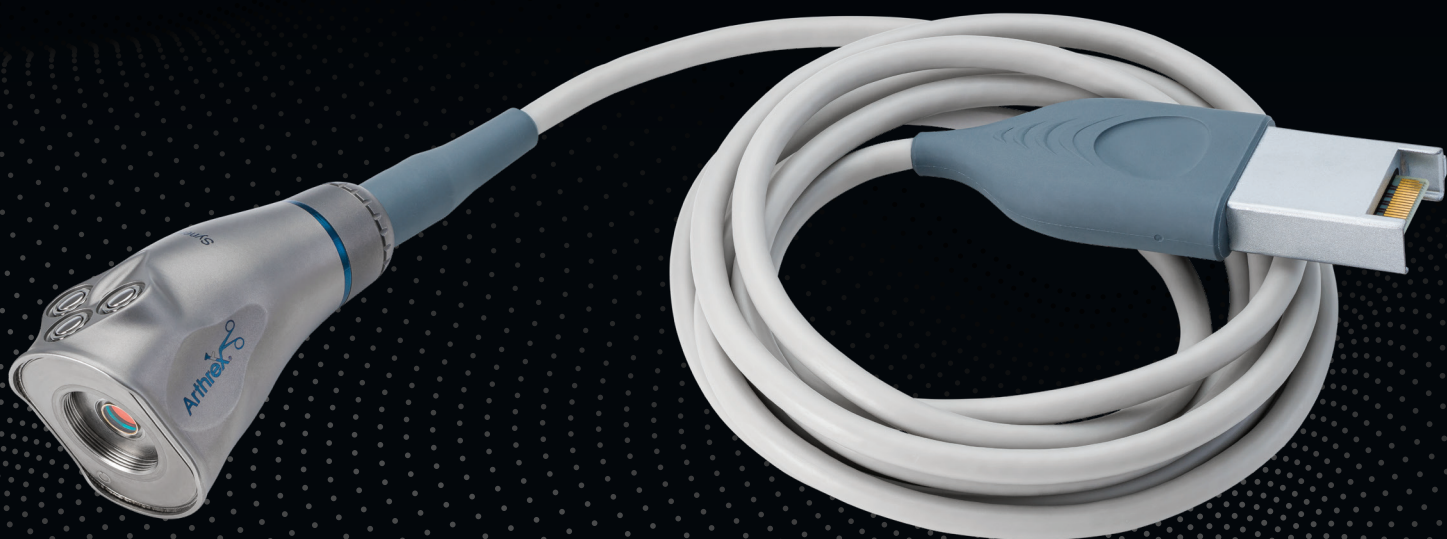
Standard visible light +
NIR overlay



Grayscale visible light +
NIR overlay



NIR only



Camera Heads

The Synergy Vision™ imaging system supports two distinct camera head options: the Synergy Visionary™ camera head and the Synergy Vision camera head. With unique features and benefits for each style, these camera heads are designed for both orthopedic and endoscopic procedures while meeting the needs of veterinarians.



Key Features and Benefits

Ultrawide View*

Both the Synergy Visionary camera head and the Synergy Vision camera head can toggle between 30°, 70°, and 45° ultrawide views at the touch of a button. Veterinarians will recognize the ergonomics of the traditional camera heads with the addition of a third programmable button to toggle between views.

High Dynamic Range**

The Synergy Vision imaging system features HDR, providing exceptional contrast of surgical anatomy and ideal visualization. The Synergy Visionary camera option offers a unique design that produces optimal resolution. With one chip capturing all low-light information and another processing it, the two chips work together to enhance surgical images by eliminating dark spots and shadows.

Synergy Visionary camera head	VAR-3210-0034
Synergy Vision camera head	VAR-3210-0035
4K C-mount coupler	VAR-3210-0012

*Feature available on both the Synergy Vision and Synergy Visionary camera heads

**Feature available only on the Synergy Visionary camera head

Fluorescence Technology**

The Synergy Vision imaging system with the Synergy Visionary camera head enables advanced visualization in virtually any surgical specialty by combining state-of-the-art 4K visualization with unique augmented reality features, such as near-infrared (NIR) fluorescence imaging, to see more than ever before. A dedicated NIR sensor in the Synergy Visionary camera ensures that fluorescence imaging capabilities are never compromised.





Additional System Features and Benefits

The Synergy Vision™ console delivers state-of-the-art visualization, fluorescence imaging, LED lighting, image management, and integration in a compact footprint. Producing outstanding 4K video for veterinarians, this system allows staff to focus on patients instead of equipment through a simple-to-use, tablet-based user interface. With a range of customizable veterinarian preferences, this system enables advanced visualization in virtually any surgical specialty.

Building on the features detailed in this brochure, the Synergy Vision system delivers the following added benefits:

- › Ability to capture and automatically export 4K stills and video to multiple destinations, such as a network share, PACS, the Synergy Surgeon™ app, Synergy.net™ software, and SurgeonVault® system
- › Live, secure video streaming to authorized users with intraoperative messaging
- › Built-in wired and wireless network connectivity
- › Heads-up display to keep the surgeon informed of imaging, shaver, pump, insufflator, and RF settings throughout the procedure
- › Easy addition of new functionality through the software-based solution
- › Built-in LED light source with a 30,000-hour warranty
- › Unique augmented reality features and image enhancement functionality, which help to optimize visualization
- › System control provided via easy-to-learn user interface on tablet
- › Programmable individual veterinarian/procedure preferences, which reduce system setup time and ensure surgeons have a consistent experience from case to case
- › On-screen guided surgical timeout

This revolutionary system also offers unparalleled 4K white-light visualization, including:

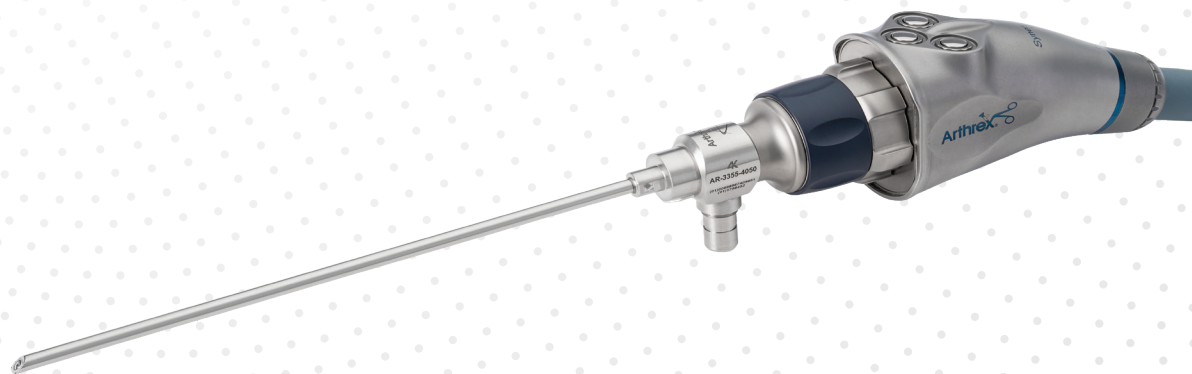
- › Increased dynamic range and depth of light for unrivaled contrast and even light distribution
- › Unsurpassed depth of field for optimal sharpness, from the front to the back of the image
- › Brand-new imaging modes for white-light color augmentation
- › Four times the pixel count of HD, combined with a multisensor camera design for higher resolution and enhanced depth perception
- › Precise color reproduction with 10-bit color
- › Direct LED integration with the 4K visualization system for maximum performance

In addition, the next-generation Synergy video cart was designed and developed with the latest ergonomics in mind to outfit even the largest operating rooms. This next-generation cart features a number of customizable configurations, including dual-monitor capabilities to optimally support the Synergy Vision system outputs.

Ordering Information

Synergy Vision™ console	VAR-3200-0026
Synergy Vision Connect™ console	VAR-3200-0027
Synergy Visionary™ camera head	VAR-3210-0034
Synergy Vision camera head	VAR-3210-0035
Pano™ scope	VAR-3355-4050
Synergy Vision Connect integration software license	AR-3200-1088
NanoNeedle™ scope, 125 mm	AR-3210-0043
NanoNeedle scope, 180 mm	AR-3210-0044
NanoNeedle scope, 250 mm	AR-3210-0045
NanoNeedle scope 2.0, 125 mm	VAR-3210-0070
NanoNeedle scope 2.0, 180 mm	VAR-3210-0071
NanoNeedle scope 2.0, 250 mm	VAR-3210-0072
Laser light source	VAR-3200-1018
32 in Synergy Vision HDR surgical display	VAR-3250-3212
Synergy Vision tablet	VAR-3200-1016
Synergy video cart w/ boom, 120 V	AR-3260-0001
4K C-mount coupler	VAR-3210-0012
High-flow conical obturator for Pano scope sheath, tapered, fenestrated, w/ handle	AR-3373-4202
Conical obturator w/ handle for Pano scope sheath, HF, Tap/Fen	AR-3375-4201
High-flow sheath for Pano scope, tapered, fenestrated, single stopcock	AR-3373-4201
Trocar for high-flow Pano scope sheath, tapered, fenestrated, w/ handle	AR-3375-4202
Cannulated obturator for high-flow Pano scope sheath, tapered, fenestrated, w/ handle	AR-3375-4203
Blunt obturator for high-flow Pano scope sheath, tapered, fenestrated, w/ handle	AR-3375-4204
Conical obturator for high-flow Pano scope sheath, tapered, fenestrated	AR-3375-4207
High-flow Pano scope sheath, double stopcock	AR-3372-4202
High-flow Pano scope sheath, single stopcock	AR-3372-4201
Conical obturator for high-flow Pano scope sheath, w/ handle	AR-3375-4211
Trocar for high-flow Pano scope sheath, w/ handle	AR-3375-4212
Cannulated obturator for high-flow Pano scope sheath, w/ handle	AR-3375-4213

Blunt obturator for high-flow Pano scope sheath, w/ handle	AR-3375-4214
Conical obturator for high-flow Pano scope sheath	AR-3375-4217
Inflow/outflow sheath set for Pano scope	AR-3370-4203
Inner sheath for Pano scope, part A	AR-3370-4203A
Outer sheath for Pano scope, part B	AR-3370-4203B
Conical obturator for inflow/outflow Pano scope sheath	AR-3375-4201A
Trocar for inflow/outflow Pano scope sheath	AR-3375-4202A
Bridge for Pano scope, double stopcock	AR-3380-4202
Bridge for Pano scope, single stopcock	AR-3380-4201
Bridge for Pano scope sealed cannula, single stopcock	AR-3380-0421
Bride for Pano scope sealed cannula, double stopcock	AR-3380-0422
Pano scope metal cannula, 4.75 mm, fenestrated	AR-3525-4.75
Pano scope metal cannula, 5 mm, fenestrated	AR-3525-5.0
Pano scope metal cannula, 5.5 mm, fenestrated	AR-3525-5.5
Pano scope metal cannula, 6.5 mm, fenestrated	AR-3525-6.5
Pano scope metal cannula, 4.75 mm, w/ dam	AR-3515-4.75
Pano scope metal cannula, 5 mm, w/ dam	AR-3515-5.0
Pano scope metal cannula, 5.5 mm, w/ dam	AR-3515-5.5
Blunt obturator for 4.75 mm Pano scope metal cannula, w/ dam	AR-3516-4.75
Quick-connect bridge for FlushFit cannula, Pano scope, double stopcock	AR-3380-4056H
Switching stick, 4.2 mm × 15 in	AR-3020-10
Switching stick, cannulated, 4.2 mm × 15 in	AR-3020-11



This is not veterinary advice and Arthrex recommends that veterinarians be trained in the use of any particular product before using it in surgery. A veterinarian must always rely on his or her own professional clinical judgment when deciding whether to use a particular product. A veterinarian must always refer to the package insert, product label and/or instructions for use before using any Arthrex product. Products may not be available in all markets because product availability is subject to the regulatory and/or veterinary practices in individual markets. Please contact your Arthrex representative if you have questions about availability of products in your area.



Arthrex manufacturer, authorized
representative, and importer
information (Arthrex eIFUS)



US patent
information