

# Synergy<sup>UHD4™</sup> Endoscopy

4K Vision. LED. Image Management. Integration.



**Arthrex®** 

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## Helping Surgeons Treat Their Patients Better™

Since its inception, Arthrex has been committed to one mission: Helping Surgeons Treat Their Patients Better™. We are strategically focused on constant product innovation through scientific research, surgeon collaboration and medical education to make less invasive surgical procedures simple, safe and reproducible. Each year, we develop more than 1,000 new innovative products and procedures to advance minimally invasive orthopedics worldwide.

Arthrex has always remained a privately-held company, which allows for the rapid evaluation of new technologies and ideas. Our economic strength enables us to develop products and techniques that truly make a difference without compromising on quality. Our experienced team of dedicated professionals represents a shared passion and commitment to delivering uncompromising quality to the health care providers who use our products and the millions of patients whose lives we impact.

The medical significance of our contributions serves as our primary benchmark of success and will continue into the future as the legacy of Arthrex.



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# Revolutionizing Endoscopy

## Synergy<sup>UHD4™</sup> 4K Imaging Platform



(a)

The Synergy<sup>UHD4</sup> imaging platform was the first endoscopic 4K camera system on the market. The console integrates 4 pieces into 1 and revolutionizes endoscopic visualization and image management. The Synergy<sup>UHD4</sup> camera system combines the latest technology, true 4K camera heads, LED lighting, image management, and integration with an intuitive tablet controller. One console and 1 unique tablet interface simplify use, and programmable individual surgeon/procedure preferences enhance the user experience. The 4K image displayed on the monitor has 4 times the resolution of standard HD.

### Synergy<sup>UHD4</sup> Tablet Controller

Our unique and innovative remote “tablet” interface allows users to remotely and efficiently enter patient information, surgeon preferences, and image management settings only once. The Synergy<sup>UHD4</sup> tablet controller may help reduce costs and OR times and increase efficiency.

#### Synergy Consoles

Product Description	Item Number
Synergy <sup>UHD4</sup> Digital Documentation Tablet	AR-3200-1013

#### Synergy Consoles

Product Description	Item Number
Synergy <sup>UHD4</sup> Console with Matrix	AR-3200-0020
Synergy <sup>UHD4</sup> Console (a)	AR-3200-0021

## 4K and HD Camera Heads



Synergy<sup>UHD4™</sup> camera heads provide true 4K or 1080p HD resolution. The 4K camera heads have 4 times the pixels compared to 1080p for unprecedented resolution and wider color gamut for precise color reproduction. The newly designed, smaller heads still carry the industry-leading standard autoclavable warranty while maintaining the comfortable, ergonomic design started with the Synergy<sup>HD3™</sup> heads. With multiple configurations, the Synergy<sup>UHD4</sup> heads are adaptable to multispecialty accounts and continue to lead the market in arthroscopy.

### Camera Heads

Product Description	Item Number
HD Synergy <sup>UHD4</sup> Camera Head, autoclavable	AR-3210-0018
HD Synergy <sup>UHD4</sup> C-Mount Camera Head, autoclavable	AR-3210-0021
HD Synergy <sup>UHD4</sup> C-Mount Camera Head, 0°, autoclavable	AR-3210-0022
4K Synergy <sup>UHD4</sup> C-Mount Camera Head, 0°, autoclavable	AR-3210-0026
4K Synergy <sup>UHD4</sup> C-Mount Camera Head w/20' cable, autoclavable	AR-3210-0028
4K Synergy <sup>UHD4</sup> Camera Head, broadband, autoclavable	AR-3210-0029
4K Synergy <sup>UHD4</sup> C-Mount Camera Head, broadband, autoclavable	AR-3210-0030
4K Synergy <sup>UHD4</sup> Ultra Camera Head, autoclavable	AR-3210-0031
4K Synergy <sup>UHD4</sup> Ultra C-Mount Camera Head, autoclavable	AR-3210-0032



### C-Mount Couplers

Product Description	Item Number
C-Mount HD Optical Zoom Coupler	AR-3210-0006
C-Mount Right Angle Coupler	AR-3210-0009

## Light Guides



Product Description	Item Number
Fused Light Guide, Wolf, 3.5 mm × 2.7 m (9')	AR-3240-3527
Fused Light Guide, Wolf, 5 mm × 2.7 m (9') (a)	AR-3240-5027
Fused Light Guide, Wolf, 5 mm × 4 m (13.4')	AR-3240-5040
Fused Light Guide, Wolf, 5 mm × 2.7 m (9'), gray	AR-3240-5028
Fused Light Guide, Universal, 3.5 mm × 2.7 m (9'), gray	AR-3240-3530

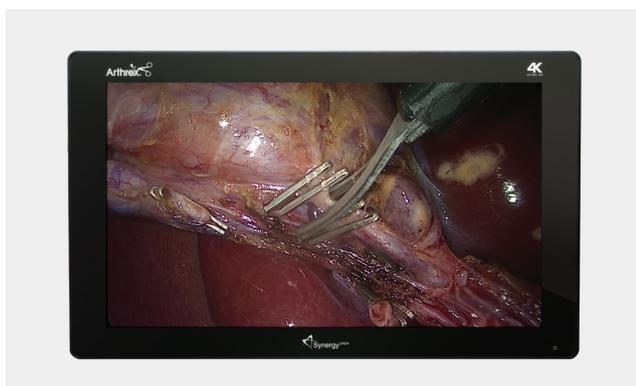
### Adapters

Product Description	Item Number
Wolf Adapter	AR-3240-3530W
Storz Adapter	AR-3240-3530S
Olympus Adapter	AR-3240-3530O
ACMI Adapter	AR-3240-3530A

## HD Endoscopes

Product Description	Item Number
HD Endoscope, 0°, 4 mm × 174 mm	AR-3000AW
HD Endoscope, 30°, 4 mm × 176 mm	AR-3030AW
HD Endoscope, 45°, 4 mm × 176 mm	AR-3045AW
HD Endoscope, 70°, 4 mm × 177 mm	AR-3070AW
HD Endoscope, 30°, 4 mm × 176 mm, reverse light post	AR-3030AWR
HD Endoscope, 45°, 4 mm × 176 mm, reverse light post	AR-3045AWR
HD Endoscope, 70°, 4 mm × 177 mm, reverse light post	AR-3070AWR

## UHD 4K and 1080p HD Monitors



- UHD 4K medical display and 1080p HD medical display options
- Picture-in-picture and side-by-side display modes
- Versatile multiformat signal support
- With and without Synergy Matrix™ System enabled

### UHD 4K and 1080p HD Monitors

Product Description	Item Number
HD Monitor, OLED, 25 in	AR-3250-2602
HD Monitor With Decoder, LED, 26 in	AR-3250-2604
HD Standard Monitor, LED, 26 in	AR-3250-2606
HD Monitor, LED, 32 in	AR-3250-3206
UHD 4K Monitor, LED, multimedia, 32 in black	AR-3250-3207
UHD 4K Monitor with Decoder, LED, multimedia, 32 in, black	AR-3250-3210
Monitor Cover, 26 in black	703458-15
Monitor Cover, 32 in black	703459-15
Tablet Cover for UHD4 tablet, black	703510-15

## Insufflation



The ArthroC6 50 L insufflator has an intuitive touch screen interface and Synergy heads-up display. The unit features high-flow and bariatric modes, integrated gas heating, venting system, and fluid sensor to help prevent cross contamination.

Product Description	Item Number
Synergy Insufflator (English, German, French, Spanish)	AR-3290-0004
Insufflation Tube Set, ISO Connector, disposable (pack of 10)	AR-3290-1001
Tube Set ISO Connector, reusable 20x, autoclavable	AR-3290-1002
Disposable Heated Tube Set (pack of 10)	AR-3290-1007
Heated Tube Set, reusable 100x, autoclavable	AR-3290-1008
Filter for Insufflation, disposable, sterile, ISO-ISO (pack of 25)	1201198
ISO Barb Adapter	2201726
Gas Connection for CO <sub>2</sub> Bottle Gas Supply US	2200694
Gas Connection for CO <sub>2</sub> House Gas Supply DISS	2200702
Gas Connection for CO <sub>2</sub> House Gas Supply NIST	2200703
High Pressure Hose Device US/ Bottle US, 1.5 m	2200873
High Pressure Hose Device US/ Bottle DIN, 1.5 m	2200880
High Pressure Hose Device US/ Bottle ISO, 1.5 m	2200881
High Pressure Hose Device US/ Bottle PIN Index, 1.5 m	2200875
DISS / DISS Hose for House Gas Supply	2204458
NIST/DIN Hose for House Gas Supply, 3 m	2200142
NIST/DIN Hose for House Gas Supply, 5 m	2200144
NIST/Norme Francaise Hose for House Gas Supply, 3 m	2200146
NIST/Norme Francaise Hose for House Gas Supply, 5 m	2200147
NIST/UNI (Italian) Hose for House Gas Supply, 3 m	2200149
NIST/UNI (Italian) Hose for House Gas Supply, 5 m	2200150
NIST/AGA Hose for House Gas Supply, 3 m	2200138
NIST/AGA Hose for House Gas Supply, 5 m	2200139
Insufflator Sterile Cover for Remote Control (pack of 10)	1200424
Power Supply Cord US, 2.5 mm	2201313
Power Supply Cord Euro, 2 mble	2201307
Power Supply Cord UK, 2 m	2201310
Dual Yoke CO <sub>2</sub> Switching Assembly	002433-00

## NEBULAE® I System



The NEBULAE I System is a flexible and cost-effective insufflation system that provides higher clinical performance. The modular design allows you to enhance your procedure at any given time, alleviating the need to commit to an expensive setup at the onset of the operation.

- Maintain a stable pneumoperitoneum (pneumo) with high-flow smoke evacuation
- Closed pneumo
- Use standard trocars
- Operate in higher definition

Product Description	Item Number
NEBULAE I System, insufflator, 50 L/minute, high flow insufflator (Quantity: 1)	<b>7-650-00</b>
NEBULAE High-flow Insufflation Tubing Set, hydrophobic, 0.12 µ ULPA filter with 99.999% efficiency, length: 10 ft (quantity: 10/box, sterile)	<b>7-510-52</b>
NEBULAE TAP Sensing Tubing Set, length: 10 ft (quantity: 10/box, sterile)	<b>7-510-31</b>
NEBULAE High-flow Smoke Evacuation Tubing Set, hydrophobic, 0.12 µ ULPA filter with 99.999% efficiency, length: 15 ft (quantity: 10/box, sterile)	<b>7-510-60</b>
NEBULAE In-line CO <sub>2</sub> Gas Warmer, in-line warmer, heater assembly cable and cleaning brushes, length: 10 ft (quantity: 1)	<b>6-820-00</b>

## Laparoscopes



### 3 mm Laparoscopes

Product Description	Item Number
HD Laparoscope, 0°, 3.0 mm × 207 mm	<b>AR-3351-3000</b>
HD Laparoscope, 30°, 3.0 mm × 207 mm	<b>AR-3351-3030</b>

### 5.5 mm Laparoscopes

Product Description	Item Number
4K Laparoscope, 0°, 5.5 mm × 300 mm	<b>AR-3351-5500</b>
4K Laparoscope, 30°, 5.5 mm × 300 mm	<b>AR-3351-5530</b>
4K Laparoscope, 45°, 5.5 mm × 302 mm	<b>AR-3351-5545</b>
4K Laparoscope, ext length, 0°, 5.5 mm × 424 mm	<b>AR-3351-5500L</b>
4K Laparoscope, ext length, 30°, 5.5 mm × 424 mm	<b>AR-3351-5530L</b>
4K Laparoscope, ext length, 45°, 5.5 mm × 425 mm	<b>AR-3351-5545L</b>

### 5.5 mm High Magnification Laparoscopes

Product Description	Item Number
4K Laparoscope, 0°, 5.5 mm × 300 mm, hi-mag	<b>AR-3352-5500</b>
4K Laparoscope, 30°, 5.5 mm × 300 mm, hi-mag	<b>AR-3352-5530</b>
4K Laparoscope, 45°, 5.5 mm × 302 mm, hi-mag	<b>AR-3352-5545</b>
4K Laparoscope, ext length, 0°, 5.5 mm × 424 mm, hi-mag	<b>AR-3352-5500L</b>
4K Laparoscope, ext length, 30°, 5.5 mm × 424 mm, hi-mag	<b>AR-3352-5530L</b>
4K Laparoscope, ext length, 45°, 5.5 mm × 425 mm, hi-mag	<b>AR-3352-5545L</b>

### 10 mm Laparoscopes

Product Description	Item Number
4K Laparoscope, 0°, 10 mm × 330 mm	<b>AR-3351-1000</b>
4K Laparoscope, 30°, 10 mm × 330 mm	<b>AR-3351-1030</b>
4K Laparoscope, 45°, 10 mm × 333 mm	<b>AR-3351-1045</b>
4K Laparoscope, ext length, 0°, 10 mm × 455 mm	<b>AR-3351-1000L</b>
4K Laparoscope, ext length, 30°, 10 mm × 455 mm	<b>AR-3351-1030L</b>
4K Laparoscope, ext length, 45°, 10 mm × 459 mm	<b>AR-3351-1045L</b>

## Video Cart Options

### Features

- Multiple configurations
- Adjustable shelves
- Printer access from rear of cart on top shelf
- 38" extended boom arm
- 200° rotatable touch panel arm
- Transformer included
- Dimensions 30" (L) × 30" (W) × 60" (H)

### Video Cart

Product Description	Item Number
Video Cart, extended boom arm (includes touch panel arm and footswitch holder)	<b>002317-00</b>

### Optional Accessories

Product Description	Item Number
Adjustable Shelf	<b>002361-00</b>
CO <sub>2</sub> Bottle Holder With Latch	<b>002321-00</b>
Pull-Out Pump Shelf	<b>002318-00</b>
IV Bag Hanger, left	<b>304957-00</b>
Drawer Without Adjustable Shelf	<b>303914-00</b>



## Secondary Monitor Stand



### Features

- Small footprint
- Adjustable monitor height
- Large casters for ease of mobility
- Locking casters
- Dimensions 23" (L) × 22" (W) × 57.5" (H)

### Secondary Monitor Stand

Product Description	Item Number
Secondary Monitor Stand	<b>304830-00</b>
Shelf for Monitor Stand	<b>304813-01</b>
Four Outlet Power Strip	<b>002313-00</b>
Tablet Arm for Monitor Stand	<b>304855-00</b>

## Accessory and Replacement Components

### Synergy<sup>UHD4™</sup> Accessories

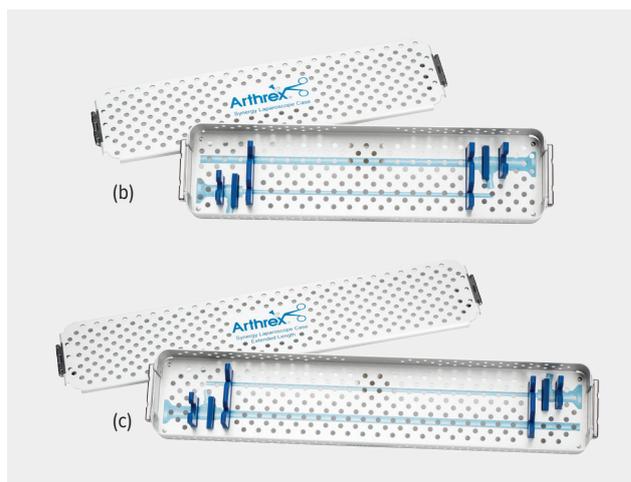
Product Description	Item Number
Secure Key-USB 2.0 Flash Drive 4 GB	<b>AR-3200-1010</b>
Secure Key-USB 2.0 Flash Drive 16 GB	<b>AR-3200-1012</b>
Synergy System Integration Cable Kit	<b>AR-3200-1040</b>
Input/Output 1080p Converter	<b>AR-3201-1005</b>
Wireless Router	<b>AR-3201-1006</b>
Wireless DVI Kit	<b>AR-3250-0001</b>

## Printer



Product Description	Item Number
Sony Printer (a)	<b>UP-DR80MD</b>
Media Pack, letter size paper and ribbon	<b>UPC-R81MD</b>
Sony Printer w/ Wireless Print System	<b>UP-DR80MD/WU</b>
Sony Wireless Print System	<b>UPA-WU10</b>

## Instrument Cases



Product Description	Item Number
Scope Case	<b>AR-3100</b>
Video Instrument Case	<b>AR-3101C</b>
Scope System Case	<b>AR-3102C</b>
Laparoscope Instrument Case, holds two (b)	<b>AR-3103C</b>
Laparoscope Instrument Case, extended length, holds two (c)	<b>AR-3104C</b>
Mid-sized Video Instrument Case	<b>AR-3105C</b>
Synergy Camera Head Case	<b>AR-3106C</b>
Hip Scope Instrument Case	<b>AR-3200C</b>







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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