

1.2.3 Synergy^{UHD4} and Synergy^{ID} Camera Heads

- Image sensor technology: CMOS
- Sensor diagonal: 1/3 inch per sensor
- Scan method: progressive
- Aspect ratio/format: 16:9
- Image resolution: 3840 x 2160 pixels
- Color depth: 10-bit-color per color channel
- Image refresh rate: 59.94 Hz (vertical scan)
- Shutter speed: 1/59.89s to 1/67500s (67,500 steps)
- Digital zoom: 1.5 x
- 2 programmable camera head buttons:
 - number of controllable functions: 5 (incl. white balance at beginning of case)
 - number of programmable functions: 15 (Synergy^{UHD4} camera heads) / 19 (Synergy^{ID} camera head)
 - controllable NIR functions: NIR mode, NIR brightness, NIR contrast, NIR background (only for Synergy^{ID} camera head)
- Housing / material: welded titanium housing
- Camera cable: copper cable w/ sheath for insulation
- Autoclavable, 7-year-warranty on autoclaving
- Anti-glare effect: Tilted window in the front as part of the housing design
- Waterproof and disinfectant-proof (IPX7)
- Applied part type CF for applications near the heart
- Appliance/protection class: I (compare to Synergy^{ID} CCU AR-3200-0025)
- EU medical device class according to Medical Device Directive (MDD) 93/42/EEC: IIa
- Notified body: BSI / CE2797
- Manufacturer: Arthrex, Inc. | 1370 Creekside Blvd. | Naples, FL 34108, USA

4K Camera Heads	Integrated Heads (with Ocular)			C-Mount Heads	
	Synergy ^{ID}	Synergy ^{UHD4} Broadband	Synergy ^{UHD4} Ultra	Synergy ^{UHD4} Broadband	Synergy ^{UHD4} Ultra
Item code: AR-3210-...	...-0033	...-0029	...-0031	...-0030	...-0032
Number of sensors	4	3	1	3	1
Focal length	19.65 mm			14 – 29 mm (AR-3210-0006); 15 mm (AR-3210-0009)	
Signal-to-noise ratio (SNR)	> 52 dB		> 50 dB	> 52 dB	> 50 dB
Optical zoom	-	-	-	2.07 × (AR-3210-0006)	
Coupling mechanism	DIN-58105-compliant scopes with eye-piece connector			C-mount scopes / C-mount couplers	
Dimensions in mm (L x W x H)	140 x 64 x 64	99 x 46 x 46		71 x 42 x 43	
Weight w/ 10 ft cable*	640 g	590 g		500 g	

* Standard cable weights incl. plug are 400 g (10 ft cable) and 680 g (20 ft cable)