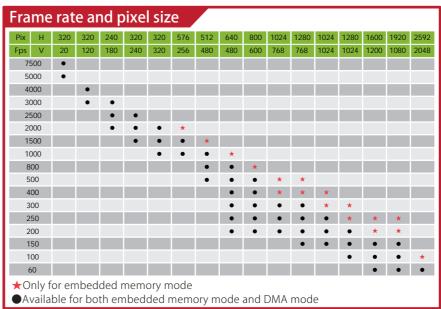


HAS-U2 is a high speed camera with 1-inch CMOS sensor and  $2592 \times 2048$  effective pixels that can shoot 100 fps at full resolution, 1,000 fps at VGA, and up to 7,500 fps by limiting the pixel area. Perfect for multiple high speed camera imaging, with embedded memory, in one compact solution.

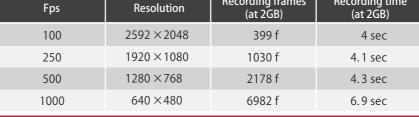
- •Good balance between high resolution and high frame rates.
- It can be used in embedded 2GB memory mode or direct memory access mode with USB3. 0 as the situation demands.
- Fully synchronized multiple high speed cameras with just one laptop PC.
- Full spec operation available above USB3. 0 max data transfer speed.
- Large volume of memory by using 64bit OS.
- The low power consumption design, made for USB3. 0 bus power, simplifies your cabling layout.
- Internal / External sync
- ●10bit A / D
- Data transmission rate approx. 506MB / sec (embedded memory mode) and 303MB / sec (DMA transfer mode)
- •Unit weight approx. 210g, unit size (W  $\times$  H  $\times$  D) 44  $\times$  44  $\times$  81. 5mm

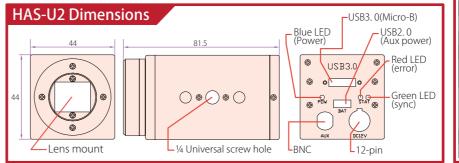
Perfect for all kinds of research / production engineering in behavior, fluid, sports science, biomechanical, robotics, machine vision, crash test, droplet, microscopy, trouble shooting, and more.





Frame number, resolution and recording duration table				
Fps	Resolution	Recording frames (at 2GB)	Recording time (at 2GB)	
100	2592×2048	399 f	4 sec	
250	1020 × 1000	1020 f	4.1	





<b>J</b> ,				
Connection diagram				
Embedded memory mode  Multiple cameras with one PC. Full spec operation available above USB3.0 max data transfer speed.				
DMA transfer mode				
Large volume of memory available using 64bit OS. Frame rate and resolution will be limited by USB3.0 max data transfer speed.				
HAS-U2 USB 3. 0 Laptop PG				

Specifications				
Camera				
Camera type	Mono (HAS-U2M)			
	Color (HAS-U2C)			
Sensor type	CMOS			
A/D	10bit			
Effective resolution	2592 × 2048 (5M pixel)			
Sensor format 1-inch				
Lens mount	C			
Recording mode	Embedded memory / DMA transfer			
Memory size	2GB			
Data output	USB3. 0			
Interface	Micro-B			
Shutter(exposure)	Minimum 1/100,000(10 $\mu$ )			
Sensitivity(at 550nm)	7. 5 V / lux.s			
Power input	5 V			
Power delivery	USB bus power / 12pin			
Electric requirement	Under 4. 5W			
Weight	Approx. 210g			
Size	44mm × 44mm × 81.5mm			
	Control software			
Trigger mode	Start / End / Variable			
	(3. 3V TTL or contact signal)			
Aux function	Histogram, Guide line,			
	Focus peeking, Live image rotation,			
	Time stamp, Trimming, Text			
Image format	AVI, WMV, BMP / Jpeg, RAW			
Supported OS	Windows7, Windows8 / 8.1, Windows10			

\*Specificatio



## D/1/T/E/C/T

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