

Digital high speed camera Company of the spe

USB 3. 0 bus power 1. 3M 1280 × 1024 200fps Embedded memory / DMA hybrid model

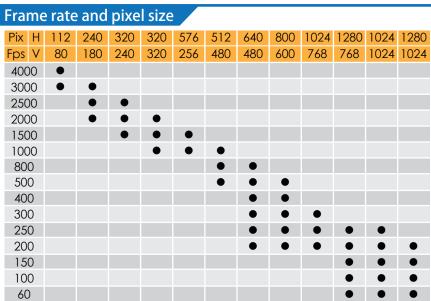


HAS-U1 is a high speed camera with ½-inch CMOS sensor and 1.3M 1280 × 1024 effective pixels that can shoot 200 fps at full resolution, 800 fps at VGA, and up to 4,000 fps by limiting the pixel area. Perfect for multiple high speed camera imaging, with embedded memory, in one compact solution.

- •Good balance between high resolution and high frame rates.
- ●It can use both embedded 2GB memory mode and direct memory access mode with USB3. 0 as the situation demands.
- •Fully synchronized multiple high speed cameras with just one laptop PC.
- 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 at 250MB / sec.
- •Unit weight approx. 210g, unit size (W \times H \times D) 44 \times 44 \times 81.5mm

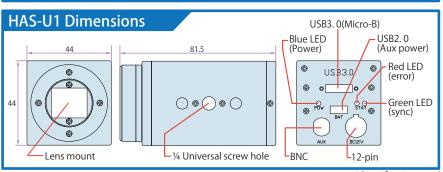
Perfect for all kinds of research / production engineering in behavior, fluid, sports science, biomechanical, robotics, machine vision, crash test, droplet, microscopy, trouble shooting, and more.





Frame number, resolution and recording duration table

Fps	Resolution	Recording frames (at 2GB)	Recording time (at 2GB)	
200	1280×1024	1632 f	8. 1 sec	
500	800×600	4466 f	8. 9 sec	
800	640×480	6982 f	8. 7 sec	
2500	320×240	27943 f	11. 1 sec	
*You can use a large volume of memory on the PC in DMA mode.				



Connection diagram			
Embedded memory mode			
Multiple cameras with one PC.			
HAS-U1 HUB Laptop PG USB 3. 0			
DMA transfer mode Large volume of memory available using 64bit OS.			
HAS-U1 USB 3. 0 Laptop PC			

Specifications

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Camera			
Camera type	Mono (HAS-U1M)		
	Color (HAS-U1C)		
Sensor type	CMOS		
A/D	10bit		
Effective resolution	1280×1024 (1. 3M pixel)		
Sensor format	½ inch		
Lens mount	С		
Recording mode	Embedded memory / DMA transfer		
Memory size	2GB		
Data output	USB 3. 0		
Interface	Micro-B		
Shutter(exposure)	Minimum 1/100,000(10μ)		
Sensitivity(at 550nm)	7. 7 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. 3 V 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	Windows 7, Windows 8/8.1, Windows 10		

*Specifications and external appearance may be subject to change without notice.

