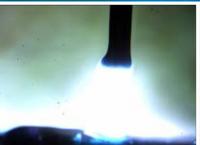
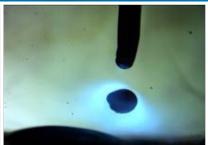
FASTCAM Mini UX100

COMPACT HIGH-SPEED CAMERA SYSTEM









Real Power in a Compact Package

The Photron FASTCAM Mini UX100 high speed camera packs a lot of performance in such a small package, providing 1,280 by 1,024 pixel resolution to 4,000 frames per second (fps) and reduced resolution operation all the way to 800,000 fps, with 1,280(H) by 720 (V), equivalent to 720 HD video resolution, to 6,400 fps. This makes the UX100 a small and lightweight camera ideally suited for applications as varied as fluidics, life sciences or ballistic testing. A global shutter provides blur free imagery with a minimum shutter speed of $1\mu s$ with 12-bit pixel depth (36-bit for the color version) from the CMOS pixels $10\mu m$ square pixel providing an ISO 12232 Ssat certified light sensitivity of 10,000 ISO for the monochrome version.



Target applications include:

- Biomechanics
- Life sciences
- Fluid dynamics
- Off board automotive safety testing
- Defense and aerospace research
- Material science

Benefits

- Frame Rate Performance examples:
 - 4,000 fps at 1,280 x 1,024 pixel resolution
 - 5,000 fps at 1,280 x 1,000 pixel resolution
 - 6,250 fps at 1,280 x 800 pixel resolution
 - 10,000 fps at 896 x 488 pixel resolution
 - 25,000 fps at 1,280 x 200 pixel resolution
 - 200,000 fps at 1,280 x 24 pixel resolution
 800,000 fps at 640 x 8 pixel resolution
- Self-contained, compact and lightweight camera 120mm (4.7")H×120mm (4.7")W×90mm (3.6")D and 1.5Kg
- Sensitivity: ISO 12232 Ssat standard
 - ISO 10,000 monochrome
 - ISO 5,000 color
- Compatibility with 1 inch C mount and Nikon G type lenses
- 4GB, 8GB and 16GB memory options and high performance GigaBit Ethernet interface to PC



Photron.com

FASTCAM Mini UX100

COMPACT HIGH-SPEED CAMERA SYST

Specifications: Partial Frame Rate / Recording Duration Table

FRAME RATE	ME RATE MAXIMUM RESOLUTION		RECORD DURATION (12-BIT)					
			TIME (Sec.)			FRAMES		
(fps)			4GB	8GB	16GB	4GB	8GB	16GB
1,000	1,280	1,024	2.18	4.37	8.73	2,180	4,365	8,734
2,000							4,365	
4,000	1,280	1,024	0.55	1.09	2.18	2,180	4,365	8,734
				0.89		2,232		8,943
6,250	1,280	800	0.45	0.89	1.79	2,791	5,587	11,179
		720						
8,000	1,280	616	0.45	0.91	1.81	3,624	7,256	14,519
10,000			0.65				13,084	
16,000	1,280	312	0.45	0.90	1.79	7,156	14,326	28,665
20,000							18,023	
40,000	1,280	120	0.47	0.93	1.86	18,607	37,248	74,531
100,000	1,280	32	0.70	1.40	2.79	69,777	139,682	279,492
800,000	640		0.70	1.40	2.79	558,216	1,117,457	2,235,938

Sensor	1 280 x 1 024 nixels	10um pixel size	12-hit ADC (Bayer

system color, 36 bit single sensor)

Global electronic shutter from 20ms to 1 μ s dependent on Shutter

frame rate

4GB (2,180 frames @ maximum resolution) or Memory

> 8GB (4,365 frames @ maximum resolution) memory options 16GB (8,734 frames @ maximum resolution) memory options

Camera Control High speed Gigabit Ethernet

Low light mode drops the frame rate and shutter time to their Low Light Mode maximum values, while maintaining other set parameters, to

enable users to position and focus the camera

Triggering Selectable positive or negative TTL 5Vp-p or switch closure

Timina Internal clock or external source

1/0 Input: Trigger (TTL/Switch), Sync, Ready, Event, IRIG

Output: Trigger, Sync, Ready, Rec, Expose

Phase Lock Enables cameras to be synchronized precisely together or to a

master camera or external source.

Trigger Modes Start, Center, End, Manual, Random

Saved Image

JPEG, AVI, TIFF, BMP, RAW, PNG, MOV and FTIF.

Formats Images can be saved with or without image or comment data

Data Display Frame Rate, Shutter Speed, Trigger Mode, Date or Time,

Status (Playback/Record), Real Time, Frame Count and

Resolution

Cooling Actively cooled using external fans

Operating

Temperature

0 - 40 degrees (32 - 104 degree F)

4 x1/4-20UNC Mounting

Dimensions 120mm $(4.7")H \times 120mm (4.7")W \times 90mm (3.6")D$

Weight 1.5 kg (3.4 lbs)

Power 100V-240V AC 40W, 50-60Hz DC operation 22-32 VDC,

40VA Requirements

Specifications subject to change without notice



ROCKY MOUNTAIN HIGH SPEED, LLC TEL: 406-599-5577 **EMAIL: INFO@RM-HS.COM** WWW.RM-HS.COM

