

# Photron



## *FASTCAM* Mini CX

### Megapixel CMOS Sensor:

1920 x 1080 pixels at 1,000fps  
1280 x 800 pixels at 2,000fps  
1280 x 348 pixels at 5,000fps

### Class Leading Light Sensitivity:

ISO 12232 Ssat Standard  
ISO 5,000 color  
ISO 10,000 monochrome

### Global Electronic Shutter:

4 $\mu$ s independent of frame rate

### Dynamic Range (ADC):

30-bit color  
10-bit monochrome

### Compact and Lightweight:

67mm (H) x 71mm (W) x 120mm (D)  
2.63" (H) x 2.79" (W) x 4.72" (D)  
Weight: 0.9Kg ( 1.98 lbs.)

### Internal Recording Memory:

5.2GB

### Fast Gigabit Ethernet Interface:

Provides high-speed image download to standard notebook/PC

### Video Out:

HDMI Video Output

### WiFi Connection:

Live view and camera set-up via wireless network (2.4GHz/5GHz, 802.11a/g/n).

### Removable Data Storage:

CFast Compact Flash drive for high-speed data transfer. Auto download to CFast media after recording is available.

### High-G Rated:

Suitable for application in high-G environments; Operation tested to 150G, 10ms, 6-axes, 1,000 times

### Built-in Battery:

Provides operational power for up to 30 minutes and memory backup.

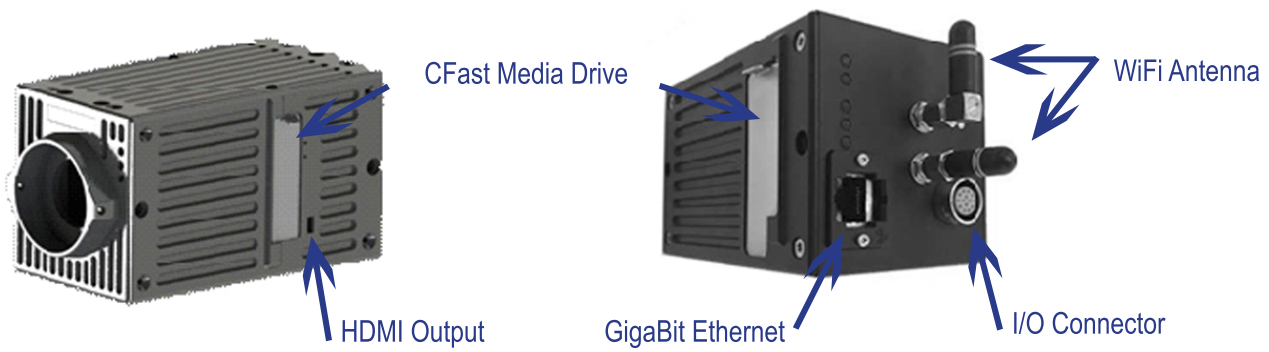
## Compact high-speed camera with HD image resolution

The FASTCAM Mini CX high-speed camera delivers exceptional high resolution imaging performance by providing 1920 x 1080 pixel (full HD) resolution at 1,000fps. A small self-contained camera designed to meet the requirements of automotive safety testing and other applications requiring high resolution motion analysis in space limited locations and harsh operating environments.

The FASTCAM Mini CX is Photron's most compact, lightweight and also rugged (operationally tested to 150G, 10ms, 6-axes) high-speed camera. This unique combination of high resolution imaging performance in a compact, lightweight and rugged package makes the system ideally suited for automotive safety testing.

Additional features include a built-in temperature sensor and built-in acceleration sensor (3-axes).





## 1" C-mount Compatible Image Sensor:

The FASTCAM Mini CX system uses an advanced CMOS image sensor optimized for light sensitivity and high image quality that is unique to Photron.

A 6.6 micron pixel pitch gives a full resolution image sensor size of:  
12.7 x 7.12mm (diagonal 14.6mm)

Lenses designed for both 1-inch C-mount and FX / DX SLR formats are compatible with the FASTCAM Mini CX at full HD image resolution.

## Junction Box Compatibility:

Compatible with on-board high-G Junction Box for easy multi camera workflow.

## Camera Performance Specifications

Model	Mini CX
Full Frame Performance	1,000fps 1920 x 1080 pixels
Example Frame Rates	2,000fps 1280 x 800 pixels 5,000fps 1280 x 348 pixels
Minimum Exposure Time	Global electronic shutter to 4µs selectable independent of frame rate
Dynamic Range (ADC)	10-bit monochrome 30-bit color
Memory Capacity	5.2GB
Sensor Size / Pixel Size	12.7 x 7.12mm (diagonal 14.6mm), 1-inch C-mount compatible
Built-in Battery	Operational power up to 30 minutes and memory back-up
Input / Output	Input: Trigger (TTL/Switch), sync, ready, event, IRIG Output: trigger, sync, ready, rec, exposure
Camera Control Interface	High-speed Gigabit Ethernet / Wifi
Video Out	HDMI
Data Storage Media	Removable CFast flash memory with auto download function
Supported OS	Microsoft Windows operating systems including: 7, 8, 8.1, 10 (32/64-bit)

## Mechanical and Environmental Specifications

Mechanical	
Lens Mount	C-mount provided
External Dimensions	
Camera Body	67mm (H) x 71mm (W) x 120mm (D)
(excluding protrusions)	2.63" (H) x 2.79" (W) x 4.72" (D)
Weight	
Camera Body	0.9kg (1.98lbs)
Environmental	
Operating Temperature	0 to 40C, 32° to 104°F
Storage Temperature	-20 to 60C, -4° to 140°F
Humidity	85% or less (non-condensing)
Operational Shock	150G, 10ms, 6-axes, 1,000 times

PHOTRON USA, INC.  
9520 Padgett Street, Suite 110  
San Diego, CA 92126  
USA

Tel: 858.684.3555 or 800.585.2129  
Fax: 858.684.3558  
Email: [image@photron.com](mailto:image@photron.com)  
[www.photron.com](http://www.photron.com)

PHOTRON EUROPE LIMITED  
The Barn, Bottom Road  
West Wycombe, Bucks. HP14 4BS  
United Kingdom

Tel: +44 (0) 1494 481011  
Fax: +44 (0) 1494 487011  
Email: [image@photron.com](mailto:image@photron.com)  
[www.photron.com](http://www.photron.com)

PHOTRON (Shanghai)  
Room 20C, Zhao-Feng  
World Trade Building  
No. 369, JiangSu Road  
ChangNing District  
Shanghai, 200050 China  
Tel: +86 (0) 21-5268-3700  
Email: [info@photron.cn.com](mailto:info@photron.cn.com)  
[www.photron.cn.com](http://www.photron.cn.com)

PHOTRON LIMITED  
Kanda Jinbo-cho 1-105  
Chiyoda-ku, Tokyo 101-0051  
Japan  
Tel: +81 (0) 3 3518-6271  
Fax: +81 (0) 3 3518-6279  
Email: [image@photron.co.jp](mailto:image@photron.co.jp)  
[www.photron.co.jp](http://www.photron.co.jp)