

### Y

New to the Y Series, the Y7 PIV model introduces a universal integrated timing interface. This allows for synchronization of any illumination sources such as lasers or LEDs. Together with our standard 200-nanosecond inter-frame time, the camera is perfectly suited for PIV researchers as it decreases PIV system size and cost.

- Long record times
- HDMI for instant playback
- Flexible timing and sync options

#### APPLICATIONS

Product testing, Automotive, Media



#### KEY FEATURES

Maximum Resolution	1920 x 1080
Maximum FPS @ Maximum Res	5,300 fps
Maximum FPS	130,000 @ 1920 x 8
Operating Temperature	-40+50 °C / -40+122 °F

#### FRAME PROPERTIES

Sensor Type	CMOS - Proprietary
Sensor Size	13.9 x 7.8 mm
Sensor Format	1 inch
Pixel Size (micron)	7.24 x 7.24 um
Pixel Depth	10 bit mono 30 bit color
Sensitivity	6000 ISO Mono 2000 ISO Color
Min. Exposure Time	1µs (*Shorter Integration optional)
Array	2.0 megapixel
Quantum Efficiency	1

#### MECHANICAL

Weight	3.4 kg or 7.5 lbs
Dimensions	103 x 96 x 228 mm (W x H x L)
Shock & Vibration	Shock: 200G / Vibration: 40G - All axes
Mount	C-Mount (Standard) , F & PL Adaptor (Optional)

#### IMAGE CAPACITY

DDR	8GB (Standard) - 16, 32GB, 64GB (Optional)
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#### TRIGGERING AND SYNCHRONIZATION

Sync In	Phase-lock TTL, IEEE1588, 1PPS
Sync Out	Frame sync / Strobe
Trigger	TTL & Switch/Circular buffer with on-camera or software trigger
IRIG	Optional
GPS Time Code	Standard
HDMI	30 fps

#### POWER

Input Voltage	minimum 14V , 8.5 A
Battery	Operation and battery back-up up to 1 hours

#### COMMUNICATION INTERFACE

Ethernet	100/1000BaseT
WiFi	Optional

#### EMBEDDED LOGIC

Debayering	Color Cameras Only
Temporal Noise Reduction	Standard
User defined ROI's and LUT's	Standard
Frame to frame Auto-Exposure and Motion Trigger	Standard

#### SOFTWARE

Motion Studio	Windows 32/64
Motion Inspector	Windows 32/64 - MAC OS X - Apple iOS
Plug-ins/SDK	SDK, LabVIEW™ or MatLab®
File Formats	Proprietary RAW
On-the-fly Conversion	TIF, BMP, JPG, PNG, AVI, MPG, TP2, MOV, MRF, MCF