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.

KEY FEATURES

Maximum Resolution	1920 x 1080
Maximum FPS @ Maximum Resolution	12,300 fps
Image Storage @ Max Frame Rate (DDR 8)	10,908
Image Storage @ Max Frame Rate (DDR 16)	22,183
Image Storage @ Max Frame Rate (DDR 32)	44,733
Image Storage @ Max Frame Rate (DDR 64)	89,833
Maximum FPS	300,000 @ 1920 x 8
Minimum Exposure Time	1µs
Sensitivity ASA/ISO	6000 ISO Mono 2000 ISO Color
Power Requirements	minimum 12V , 2 A
Operating Temperature	-40+50 °C / -40+122 °F

SENSOR

Sensor Type	CMOS – Proprietary
Sensor Size	13.9 x 7.8 mm
Sensor Format	1 inch
Pixel Size (micron)	7.24×7.24 um
Pixel Depth	10 bit mono 30 bit color

INPUTS

Trigger	TTL & Switch/Circular buffer with on-camera or software trigger
Sync	Phase-lock TTL
IRIG	Optional
GPS Time Code	Standard

OUTPUTS

Sync	Frame sync / Strobe
HDMI	30 fps

FEATURES

Approx. Size	103 x 96 x 228 mm (W x H x L)
Approx. Weight	3.4 kg or 7.5 lbs
Shock/Vibration Rating	Shock: 200G / Vibration: 40G – All axes
Battery Powered Operation Time	Operation and battery back-up up to 1 hours
Mount	C-Mount standard , F&PL Adaptor optional

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

COMMUNICATION

Ethernet	100/1000BaseT
USB2	Standard
WiFi	Optional