

Y

The Y4 is the most versatile camera system, useful in production and research and development environments. This camera system can be operated in an extended dynamic range (EDR) mode to produce either 11-bit or 12-bit images.

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

APPLICATIONS

Product testing, Automotive, Media



KEY FEATURES

Maximum Resolution	1024 x 1024
Maximum FPS @ Maximum Res	7,000 fps
Maximum FPS @ Maximum Res (Plus Mode)	13,800 fps
Maximum FPS	385,000 @ 1024 x 8
Operating Temperature	-40+50 °C / -40+122 °F

FRAME PROPERTIES

Sensor Type	CMOS - Proprietary
Sensor Size	14.0 x 14.0 mm
Sensor Format	1 inch
Pixel Size (micron)	13.68 x 13.68 um
Pixel Depth	10 bit mono 30 bit color
Sensitivity	6000 ISO Mono 2000 ISO Color
Min. Exposure Time	1µs (*Shorter Integration optional)
Array	1.0 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	16GB (Standard) - 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