



SPECIFICATION SHEET

KEY FEATURES

Max FPS @ Max Res	3000 fps @ 1280 x 1024
Plus Mode	N/A
Max Record Time @ MAX fps @ Max Resolution	
Memory 1.25 GB	N/A
Memory 2.5 GB	N/A
Memory 5 GB	N/A
Memory 8 GB	2.63 sec 7911 Frames
Memory 10 GB	N/A
Memory 16 GB	5.29 sec 15885 Frames
Memory 24 GB	7.95 sec 23859 Frames
Memory 32 GB	10.61 sec 31833 Frames
Max Frame Rate	>70,000 fps @ 1280 x 16
Minimum Exposure Time	1µs
Sensitivity ASA	6000 ISO Mono 2000 ISO Color
Power Requirements	minimum 12V , 6.5 A
Operating Temperature	-40°C — +50 °C / -40°F — +122 °F
Memory / DRAM	Internal RAM 8GB / 16GB / 24GB / 32GB
Quantum Efficiency	60%

SENSOR

Sensor Type	CMOS - Polaris II
Sensor Size	13.9 x 13.9 mm
Sensor Format	1 inch
Image Size	1.3 megapixel
Pixel Size (micron)	Effective 10.94x10.94 µm
Pixel Depth	10 bit mono 30 bit color

INPUTS

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

OUTPUTS

Sync	Frame sync / Strobe
HDMI	30 fps
Comp Video	N/A

Y3-S1



FEATURES

Approx. Size	90.5x90.5x220 mm or 3.5x3.5x8.6 inch
Approx. Weight	3.4 kg or 7.5 lbs
Shock/Vibration rating	Shock: 100G / Vibration: 40G - All axes
Battery Back-up	Operation with optional battery back-up up to 1 hour
Mount	C-Mount standard , F&PL Adaptor optional

SOFTWARE

Motion Studio	Windows 32/64 Mac to be released
Plug-ins/SDK	SDK, LabVIEW™ or MatLab
File Formats	Proprietary RAW (MRF,MCF)
On-the-fly Conversion	TIF,BMP,JPG,PNG,AVI,MPG,QT H.264

COMMUNICATION

Camera Link	N/A
Ethernet	100/1000BaseT
USB 2.0	Standard

Specifications are subject to change without notification.

Data accurate as of 26 April 2012

Please reference our website for updates: <http://www.idtvision.com/imaging/y3.php>