MotionPro
Y-series

Polytec

High Speed. Refined. Redefined.

A "state-of-the-art" CMOS sensor combined with the most advanced features we and our customers could think of, resulted in a new product line: the Y-series. Two interfaces (Gigabit Ethernet or USB-2) accommodate easy communication with multiple cameras (a mix of Y-, X-, M– and MotionXtra-cameras). The new design offers a high refresh rate during recording and playback trough the digital HDMI-output. The use of composite materials and a smart mechanical design results in a shock resistant camera up to 100G. The optional battery pack offers the backup of the images in case of a power surge but also autonomous use up to 60 minutes.
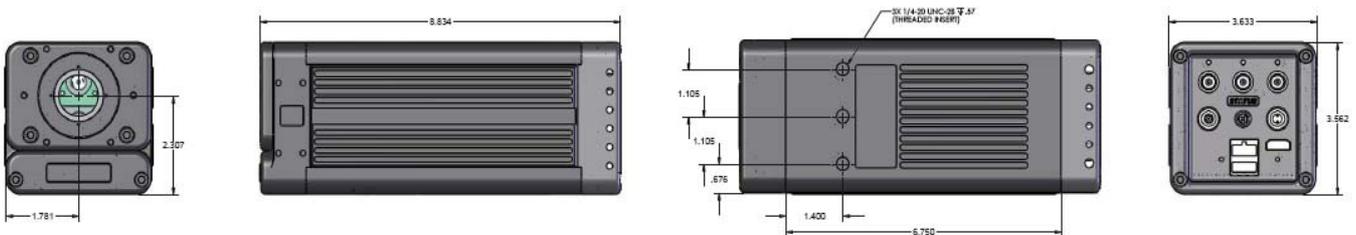
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Advancing Measurements by Light

www.polytec.com

	Y-3	Y-4 Lite	Y-5	Y-6
Maximum fps @ Full Resolution	1,030 fps @ 1280 x 1024 *Plus mode 2,060 fps @ 1280 x 1024*	4000 fps @ 1024x1024	500 fps @ 2352 x 1728 *Plus mode 1000 fps @ 2352 x 1728*	1200 fps @ 1504 x 1128
Array Size	1.3 megapixels	1.0 megapixels	4 megapixels	1.7 megapixels
Max fps @ Reduced Resolution	65,000 fps @ 1280 x 16 *Plus mode130,000 fps @ 1280 x 16*	256,000 fps @ 1024 x 16	39,000 fps @ 2352 x 16 *Plus mode 78,000 fps @ 1280 x 16*	TBD
Sensor	CMOS - Sirius	CMOS - Polaris	CMOS - Orion	CMOS - Scorpio
Sensitivity	3000 ASA Mono 1000 ASA Color	10000 ASA Mono 5000 ASA Color	1000 ASA Mono 350 ASA Color	10000 ASA Mono 5000 ASA
Pixel Size	12x12 µm	14x14 µm	7x7 µm	16x16 µm
Color	Available	Available May '09	Available	Available May '09
Mono	Available	Available	Available	Available May '09
Memory Options	Internal 4, 8, or 16 GB RAM *(16 GB = 12,300 frames @ 1280 x 1024)*	Internal 4, 8, or 16 GB	Internal 4, 8, or 16 GB RAM *(16 GB = 4,100 frames @ 2352 x 1728)*	Internal 4, 8, or 16 GB

All Models

Trigger	TTL & Switch	Shock/Vibration rating	100G - All axes
Sync (Input)	Phase-lock TTL	Battery Back-up	Operation and battery back-up up to 2 hours
IRIG	IRIG (Unmod)		
GPS Time Code	Future	MotionPro X	Mac or Windows
Sync (Output)	Frame sync / Strobe	Motion Central	Windows
HDMI	30 fps HDMI	Plug-ins/MotionPro X	LabVIEW™ for PC, MATLAB
Comp Video	N/A	File Formats - MotionPro X	TIF BMP AVI MRF MCF
Camera Link	N/A	File Formats - Motion Central	Type-2 Bayer, TIFF, JPEG
Ethernet	100/1000BaseT	H x W x L	90.5x90.5x220 mm
USB 2.0	USB 2.0	Weight	1.9kg

all dimensions shown in mm