



High Speed. Refined. Redefined.



Y-5

**REDLAKE** DIGITAL IMAGING SYSTEMS

Y-5

Y-SERIES 5

# 4 megapixels and 1000 fps

Key features:

**Up to 2352 x 1728 resolution in color or mono**

**Frame rates up to 1000 fps at full resolution. Up to 39,000 fps at reduced resolution**

**Shock resistant to 100G in all axes**

**Up to 16 GB internal Memory**

**10 bit (mono) or 30 bit (color)**

**Gigabit Ethernet and USB2.0**

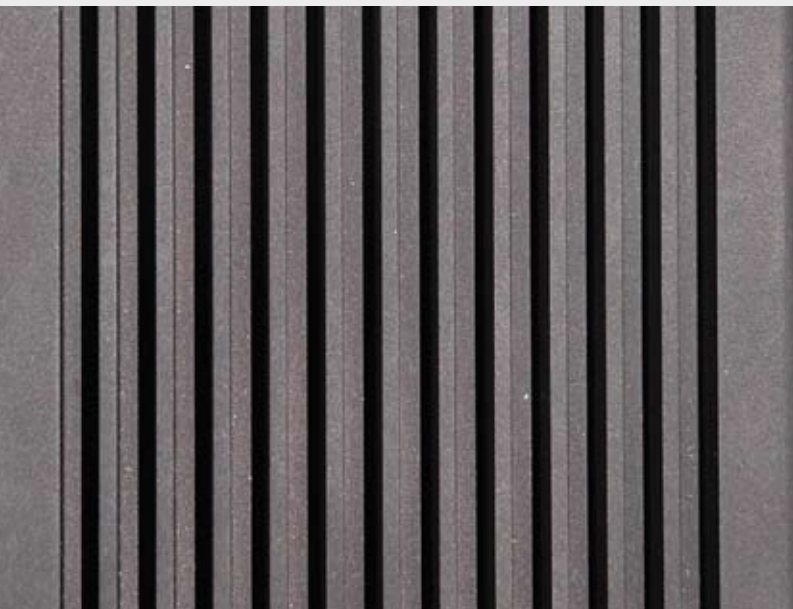
**iPod and PDA compatibility**

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.

The Y5 captures the 2352 x 1728 images with a speed of 500 fps: up to 1000 fps in Plus mode and frame rates up to 39,000 fps possible at lower vertical resolution. A large internal RAM memory, up to 16 GB, accommodates long recording times.

Two interfaces (Gigabit Ethernet or USB-2) accommodate easy communication with multiple cameras (a mix of Y-, X-, M- and MotionXtra-cameras).

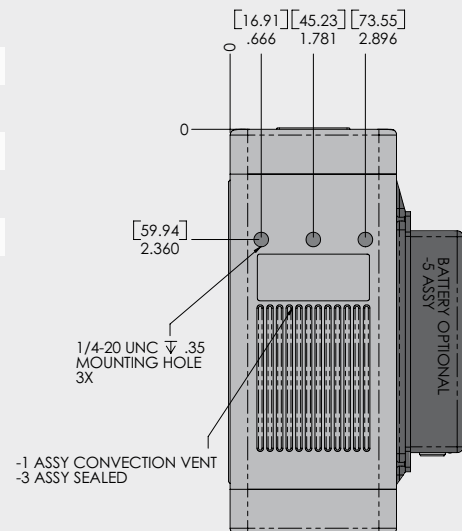
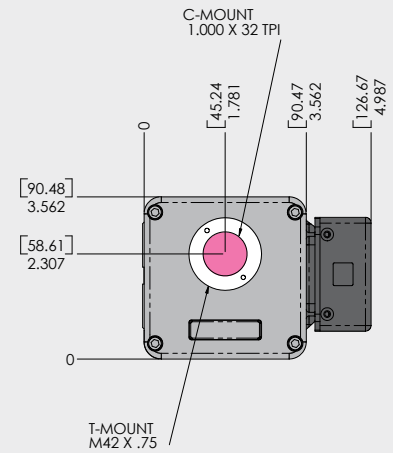
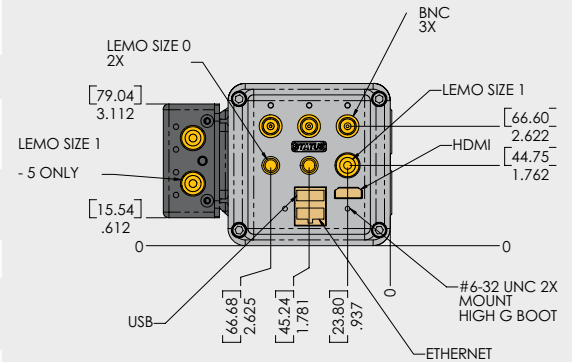
The new design offers a high refresh rate during recording and playback through the digital HDMI-output. The use of composite materials and a smart mechanical design results in a shock resistant camera up to 100G. The optional battery pack offers the backup of the images in case of a power surge but also autonomous use up to 60 minutes.



# Technical Data

## Y-5

Maximum fps @ Full Resolution	500 fps @ 2352 x 1728 Plus mode 1000 fps @ 2352 x 1728
Array Size	4 megapixels
Max fps @ Reduced Resolution	39,000 fps @ 2352 x 16 Plus mode 78,000 fps @ 1280 x 16
Sensitivity	3000 ASA Mono 1000 ASA Color
Pixel Size	7x7 $\mu\text{m}$
Color	Available
Mono	Available
Memory Options	Internal 4, 8, or 16 GB RAM (16 GB = 4,100 frames at 475 fps @ 2352 x 1728)
Trigger	TTL & Switch
Sync (Input)	Phase-lock TTL
IRIG	IRIG (Unmod)
GPS Time Code	Future
Sync (Output)	Frame sync / Strobe
HDMI	30 fps HDMI
Comp Video	N/A
Camera Link	N/A
Ethernet	100/1000BaseT
USB 2.0	USB 2.0
Shock/Vibration rating	100G
Battery Back-up	Operation and battery back-up up to 2 hours
MotionPro X	Mac or Windows
Motion Central	Windows
Plug-ins/MotionPro X	LabVIEW or MatLab
File Formats - MotionPro X	TIF BMP AVI MRF MCF
File Formats - Motion Central	Type-2 Bayer, TIFF, JPEG and AVI
H x W x L	90x90x220 mm
Weight	1.9 kg



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