

Mega Speed[®] X7 PRO 1080P

Continuous Recording “Dual Mode” High Speed Camera!



The Supplied SATA III to USB 3.0
Doc Cable's Transfer Speeds Are
5 Times Faster Than GigE

580 FPS at 1920 x 1080



Specifications

“Hot Swap” Solid State Drive For The Industries Fastest Work-Flow!

Work lights:	Built in high power LED work lights.
Temperature range:	0°C to 45°C Operational range. -40°C to +50°C storage range.
Camera size:	Depth 7.8cm x width 22.8cm x height 12.5cm.
Camera weight:	Light weight 1550g / 3.5 lbs with battery.
Camera battery:	Lithium-ion re-chargeable / removable battery for 5 hrs camera operation with power saving features.
Input voltage:	14 VDC from wall adapter when required. Camera charges internal battery while plugged in and recording.
Camera body:	Self contained, hand held with advanced light weight rugged Space Age ABS body.
Camera appearance:	Familiar fit, form and function that you would expect from an industrial designed device.
LCD screen:	Rear high resolution LCD screen monitor. Full touch screen operation and control.
Image Sensor:	1920 x 1080 resolution CMOS 10 bit 7 x 7 micron pixels. Available in B/W or color sensor models .
ISO settings:	User selectable from 200 minimum to 3200 maximum setting.
Low light setting:	25 fps, 40 ms exposure time for pre-capture setup and focus plus built in high power LED work lights.
High Speed Mode:	580 fps at 1920 x 1080 or 615 fps at 1280 x 1024 image size.
Streaming Mode:	Camera can stream in long record mode up to 2000 fps to the internal removable SATA solid state drive
Shutter speed:	Global electric shutter 2 us to 40 milli-seconds in precise 1-2 us steps for no high speed blur.
Trigger in:	3 to 48 VDC TTL centre pin positive active high via multi pin connector or by on camera finger trigger.
Data Acquisition:	Data acquisition connection of rear of camera to accept outside signal source.
Input / output ports:	Triggers: Pre / Post, Single Sequence, Multiple Start/Stop & Continuous Mode Trigger, Sync. & ADC.
Storage Options:	1 removable SSD, 2 X USB & 2 X SDHC ports, USB flash drive, SD cards / portable hard drive.
File Formats:	User can save images in AVI, JPEG, BMP, TIFF, RAW and DNG file formats.
Video Out Formats:	HDMI and 3GSDI Out ports.
Optical interface:	Standard “C” Mount. “F” Mount is optional.
Solid State Drive:	Removable 1.8” Solid State Drive. 240 GB to 1 TB are available.
Removable storage:	1, 1.8” SATA drive bay, 2 USB ports and 2 SDHC ports.
Strobe/ Sync out:	3.3 VDC TTL via multi pin connector centre pin positive, active high.
IRIG B:	Optional IRIG B time code ready via multi pin connector for IRIG B time stamping on recorded images.
Camera RAM:	8 GB (Giga Byte) standard high speed internal image buffer memory.
Software requirements:	Windows XP, Windows 7, 32 or 64 bit, Windows 8 (Only needed when you connect camera to a PC)
PC software:	Ships with Camera Control for image transfer, object tracking, image analysis, video editing software.
PC requirements:	2GHz, 8 GB RAM. 1 USB and one Gig E connection. (Only needed if you connect camera to a PC)
PC interface:	Gigabit Ethernet for full camera control and downloading files from the camera's solid state drive. User can also remove the SSD and connect it to the PC with the supplied USB DOC cable.

Sensor Size Comparison

The Grey area is the size of a standard 1280 x 1024 mega pixel camera.

Yellow area is the X7 size increase over the standard mega pixel camera sensor.

Distribution in the UK & Ireland



**Characterisation,
Measurement &
Analysis**

Lambda Photometrics Limited
Lambda House Batford Mill
Harpenden Herts AL5 5BZ
United Kingdom
E: info@lambdaphoto.co.uk
W: www.lambdaphoto.co.uk
T: +44 (0)1582 764334
F: +44 (0)1582 712084