Mega Speed ®
X9 PRO

Polytec

2000 FPS 1080P
High Speed Camera!

You May Never Use A
PC Connected Camera Again.

X9 PRO Back

Optics not supplied

Specifications

**High Resolution!
High Speed!**

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:	Mobile handheld camera. Light weight 1550g / 3.5 lbs with battery.
Camera battery:	Lithium-ion re-chargeable / removable battery for minimum 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 shock absorbing Space Age ABS body.
WiFi / LAN:	Camera can connect to LAN network and camera has optional WiFi connectivity.
LCD screen:	Rear high resolution LCD screen. Full touch screen operation and control.
Image Sensor:	1" color or monochrome 1920 x 1080 format CMOS 10 bit, 11um pixel pitch.
ISO Value	10,000.
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:	2000 fps @ 1920 x 1080 resolution and 100,000 fps at minimum resolution..
Streaming Mode:	Camera can stream in long record mode to the internal 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, manual, external or countdown timer.
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:	One hot swap SSD, 2 X USB & 2 X SD ports for use with USB flash drives and SD cards.
File Formats:	User can save images in AVI, JPEG, BMP, TIFF, RAW and DNG file formats.
Video Out Formats:	HDMI interface for TV / monitor and one optional 3GSDI out port.
Optical interface:	Standard "C" Mount. "F" Mount is optional.
Solid State Drive:	One hot swap re-moveable 640 GB Solid State Drive.
Removable storage:	One solid state drive, 2 USB ports & 2 SD ports.
Strobe/ Sync out:	3.3 VDC TTL via multi pin connector center pin positive, active high.
Tripod Support:	Camera has integrated ¼ x 20 tri-pod thread.
Camera RAM:	16 GB (Giga Byte) internal high speed internal image buffer memory.
IRIG B:	Optional IRIG B time code ready via multi pin connector for IRIG B time stamping on recorded images.
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 X9 size increase over the standard mega pixel camera sensor.

A Portable Hand-Held High Speed Camera For Lab Or Field Use. No PC, No Lights, No Cables Required!

Rugged, impact resistant, shock protected, high strength injection molded case

Industry standard "C" mount or optional "F" mount for easy lens selection

Re-moveable solid state drive for years of worry free performance and convenient memory upgrades

Optics not supplied

Convenient neck strap mounts for added comfort while recording

Ergodynamic over-molded rubber hand grips prevent accidentally dropping your camera

Built in high power LED work lights. No need to drag around or plug in extra work lights

Large 6" screen for a clear view of your recordings

Several detachable and on-board file storage options like SDHC, USB or hot-swap solid state drives

HDMI & USB mouse ports for remote viewing the camera in confined spaces

Gigabit LAN control for when you want to control the camera from your PC

Over-molded rubber screen bumper protects the high resolution touch screen

Sync in/ sync out, triggers, frame marker ADC & IRIG-B input options available

Intelligent charging module charges the battery while recording

¼ x 20 TPI tri-pod mounts for secure camera mounting

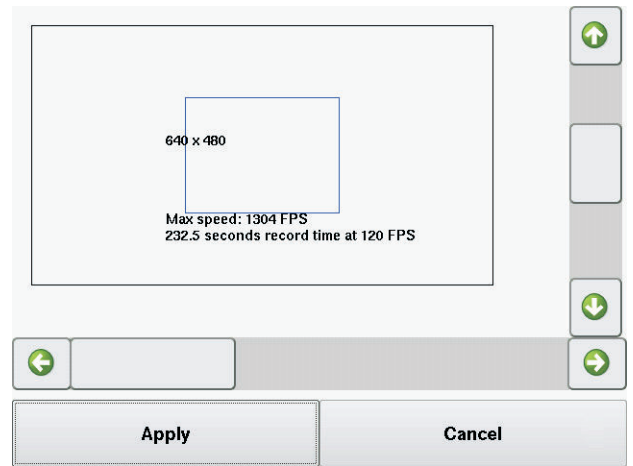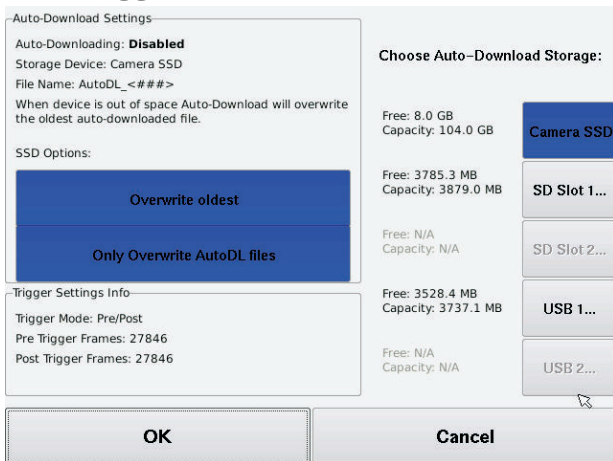**Recording rates from 30 fps to 100,000 fps**   **All Inclusive 3 year Warranty**

Easy To Follow Menu For All Camera Settings

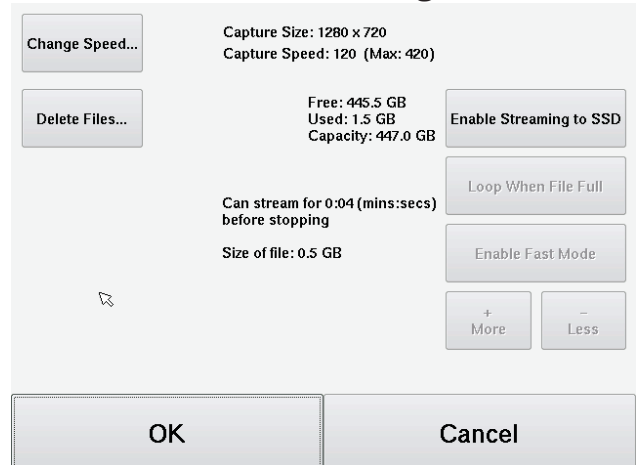Capture On AC Power Temperature

Start

LED

< Image Size

Speed...

Exposure...

< Review

Quicksave RAM to SSD

< USB/SD Menu

< Settings

0	1	2	3	4	C
5	6	7	8	9	0

< > FPS 120

Max Speed: 1224
Max Exposure: 8333

Select Any Image Size To Match your Application

640 x 480

Max speed: 1304 FPS
232.5 seconds record time at 120 FPS

Apply   Cancel

Auto-Download Options To Continuously Save Event Trigger Video From Your PLC

Auto-Download Settings

Auto-Downloading: **Disabled**
Storage Device: Camera SSD
File Name: AutoDL_<###>
When device is out of space Auto-Download will overwrite the oldest auto-downloaded file.

SSD Options:

Overwrite oldest

Only Overwrite AutoDL files

Trigger Settings Info

Trigger Mode: Pre/Post
Pre Trigger Frames: 27846
Post Trigger Frames: 27846

Choose Auto-Download Storage:

Free: 8.0 GB
Capacity: 104.0 GB — Camera SSD

Free: 3785.3 MB
Capacity: 3879.0 MB — SD Slot 1...

Free: N/A
Capacity: N/A — SD Slot 2...

Free: 3528.4 MB
Capacity: 3737.1 MB — USB 1...

Free: N/A
Capacity: N/A — USB 2...

OK   Cancel

Save Right To The Cameras SSD For Extended Recoding Times

Change Speed...

Delete Files...

Capture Size: 1280 x 720
Capture Speed: 120 (Max: 420)

Free: 445.5 GB
Used: 1.5 GB
Capacity: 447.0 GB — Enable Streaming to SSD

Loop When File Full

Can stream for 0:04 (mins:secs) before stopping

Size of file: 0.5 GB

Enable Fast Mode

+ More   − Less

OK   Cancel

Multiple Storage & File Saving Options

Save Info
732 Frames
640x480

Save as Video

MSV   215 MB (Raw Format)

AVI   650 MB

Save as Frame Sequence

BMP   644 MB

JPG   (varies by scene)

TIFF   858 MB

Save to:

Free: 48.0 GB
Capacity: 104.0 GB — Camera SSD

Free: 9.3 MB
Capacity: 3879.0 MB — SD Slot 1

Free: 348.5 MB
Capacity: 3847.0 MB — SD Slot 2

Free: 6.8 MB
Capacity: 3737.1 MB — USB 1

Free: N/A
Capacity: N/A — USB 2

Back
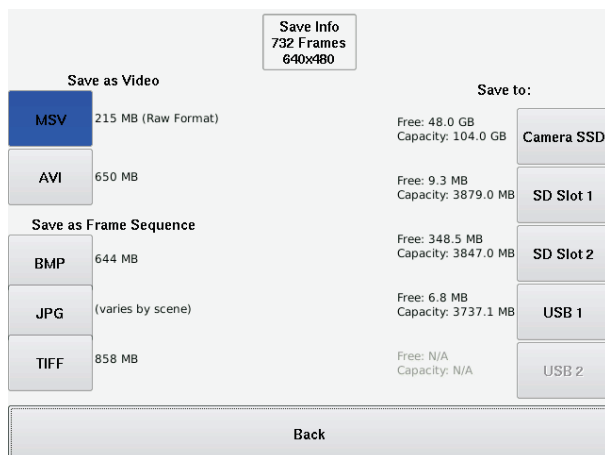
Easy to Manage File Location Menu

Select a file to open   Camera SSD: Capacity: 104 GB Used: 64 GB Free: 40 GB

<Empty>	<Empty>	**test** 1920x1080 2000 us 60 fps 97 frames Dec 7, 2012 04:33 PM	<Empty>	<Empty>	<Empty>	<Empty>	<Empty>	<Empty>

File name: test   Delete File   Cancel   Open

'	1	2	3	4	5	6	7	8	9	0	<---
TAB	Q	W	E	R	T	Y	U	I	O	P	\
CAPS	A	S	D	F	G	H	J	K	L	;	ENTER
SHIFT	Z	X	C	V	B	N	M	,	.	/	SHIFT
+	-	_									