TS3: The power of a complete high-speed camera system in the palm of your hand!





At home in the manufacturing plant, on the athletic field, in the lab, or even in an F18!



Standard Features

- 7" Touch display for control and playback
- Internal Battery--up to 4hrs of operation
- Proven 1280 x 1024 Sensor
- Full resolution frame rates above 500fps
- Over 60,000fps at reduced resolutions
- Built-in web interface for control via browser on PC, tablet, or phone
- Advanced PC software for Windows, Mac, Linux

Options

- Internal SSD up to 2TB
- Streaming modes for long record times
- External portable battery for extended operation
- WiFi: control camera via tablet, PC, or phone

TS3 Specifications

System Design Hand-held, battery-powered, portable with multiple I/O ports and media options

Sensor 10-bit CMOS sensor with 14 µm square pixels, color or monochrome TS3S: 1280 x 1024 pixels maximum, TS3L: 800 x 600 pixels maximum

Light Sensitivity 3,200 ISO monochrome, 1,600 ISO color

Record Rate TS3S 24 to 510 fps at 1280 x 1024, over 60,000 fps at reduced resolutions

Record Rate TS3L 24 to 1250fps at 800 x 600

Shutter Global electronic shutter from 2µsec to 41.667ms

Image Memory 4GE

Removable Storage SD card (SDHC: 32GB maximum), USB Flash drive

Session Length 256MB(minimum) to 8GB (may be divided into up to 16 partitions)

File Formats Stacks - BMP, DNG (color), JPEG, TIFF (processed or raw); Video - AVI, CAP (raw)

Lens Mount C-Mount

Built-in Monitor High resolution resistive touch screen, 178mm (7") diagonal LCD

Communication Ports USB 2.0 device (micro-B), Ethernet (10/100/1000Base-T)

Control Software FasMotion (PC/Mac application), web interface (browser on all platforms)

Six External I/O Ports Markers, Trigger In/Out, Sync In/Out, Arm In/Out (LVTTL (3.3V) or switch closure)

Marker Data Views Camera display info line, playback time line, FasMotion o-scope mode, XML file

Video Out HDMI (1080p/60, 1080p/30, 720p/60)

Construction Anodized machined aluminum housing

Power Rechargeable Li-ion battery (4+ hours non-LR), or 10-26 VDC external power

Power Consumption 40W maximum

Operating Environment +5°C to +40°C

Size and Weight 228mm (9.0") W x 114mm (4.5") H x 89mm (3.5") D. 1.8 Kg (3.9 lbs.)

Optional Features

Memory 8GB maximum

Built-In Storage Solid State Drive: 256GB, 512GB, 1TB, 2TB

"D" Long Record Requires 8GB memory + minimum 512GB SSD

WiFi 802.11 b/g/n, Security: open, WEP, WPA(2) - PS

Lens Mounts F-Mount, PL-Mount

Ext. TimeStamp + Sync IRIG-B (modulated and unmodulated)

Sample Record Rates and Times

Long Record Mode** **Standard Mode** Resolution Frame Rate Recording Time Frame Rate Recording Time 1280 x 1024* 510fps (Max) 12.9sec 366fps (Max) 17min 50sec 1280 x 1024* 250fps 26.1sec 125fps 52min 3sec 725fps (Max) 518fps (Max) 1280 x 720* 12.8sec 17min 52sec 1280 x 720* 250fps 37.1sec 250fps 37min 1299fps (Max TS3S) 800 x 600* 13.7sec 993fps (Max) 17min 47sec 800 x 600 1250fps (Max TS3L) 993fps (Max) 17min 47sec 14.2SeC 800 x 600 250fps 250fps 71.2sec 1hr 10min 36sec 1959fps (Max TS3S) 640 x 480* 1541fps (Max TS3S) 14.2SeC 18min 4sec 1250fps (Max TS3L) 1250fps (Max TS3L) 640 x 480 22.2sec 22min 16sec 640 x 480 250fps 1min 50.5sec 250fps 1hr 51min 5sec 6259fps (Max TS3S) 6167fps (Max) 320 X 240* 17.8sec 17min 47sec 1250fps (Max TS3L) 1250fps (Max TS3L) 88.9sec 1hr 27min 44sec 320 X 240 320 x 240 <u>25</u>0fps 7min 24.7sec 250fps 7hr 18min 31sec

1min 24.4sec

All Specifications subject to change. All record times and rates assume 8-bit data.

* TS3S only.

48 x 32*

**LR Record times assume 512GB SSD. (Multiply approximately 2x for 1TB SSD, 4x for 2TB SSD)

64,483fps (Max TS3S)

17150 Via Del Campo, Ste. 301 San Diego, CA 92127 USA 1.858.592.2342