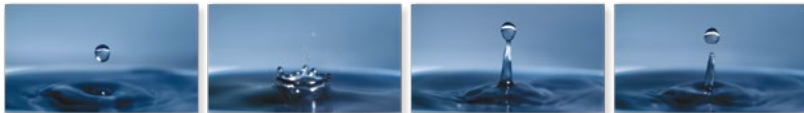# FASTEC IMAGING™

## HIGH-SPEED IMAGING IN THE PALM OF YOUR HAND

# TS3
## Model 100-L





### TS3-L At A Glance

- **Handheld, Battery Powered, Built-in LCD**
- **800 x 600 at 1250 fps CMOS Sensor**
- **Up to 256GB of onboard image storage**
- **Multiple removable image storage options**
- **Camera Control via Web Browser**

## Key Features

- **Portability** – With its small form factor, battery operation, large built-in LCD screen and intuitive on-screen menu system, the TS3 100-L puts the power of a traditional high-speed camera in the palm of your hand. TS3 is truly a point-and-shoot, high-speed camera.

- **High Resolution High-Speed Images** – The Fastec TS3 100-L records 800 x 600 resolution at 1,250 frames per second, providing ultra-sharp images.

- **Flexible Control** - The TS3 100-L can be operated as a self-contained, handheld camera, or controlled over Gigabit Ethernet via the built in Web interface with your favorite Web browser on your PC, Mac, Tablet, or even your smartphone.

- **Multiple Storage Options** – The TS3 100-L features both a USB port and an SD port allowing users to easily download images to thumb drives, SD cards, or portable hard drives. Additionally, an optional built-in SSD (solid state drive) provides up to 256GB of non-volatile internal storage. Shoot all day long without having to download to a computer.

# Fastec TS3 Model 100-L
## Camera Specifications

### Standard Features

| | |
|---|---|
| **System Design** | Stand alone, battery powered, portable with multiple PC I/O ports |
| **Sensor** | 10-bit CMOS sensor with 14μm square pixel, color or monochrome |
| **Resolution** | 800 x 600 pixel maximum |
| **Light Sensitivity** | 3,200 ISO monochrome, 1,600 ISO color |
| **Record Rate** | 60 to 1250 fps at 800 x 600 |
| **Shutter** | Global electronic shutter from 2μsec to 16.667ms |
| **Image Memory** | 4GB standard, (Optional 8GB) |
| **Removable Storage** | SDHC, (32GB maximum), SD card, USB flash drive |
| **Session Length** | 256MB up to maximum memory |
| **File Formats** | AVI (video) , or File Stacks: BMP, JPG, CinemaDNG, or TIFF (Processed or Raw) |
| **Still Image Format** | JPEG |
| **Lens Mount** | C-Mount, F-Mount or PL-Mount |
| **Built-in Monitor** | High resolution, 178mm (7″) diag. LCD |
| **PC I/O Ports** | USB (1 Host & 1 Device), SD Card, Ethernet (10/100/1000Base-T) |
| **PC Control Software** | FasMotion Camera Control: Mac, Windows or Linux; Web Browser: all platforms |
| **Trigger** | Contact Closure or Low Voltage TTL (3.3V rising or falling) |
| **External I/O Sync** | Trigger In/Out, Sync In/Out, Arm In/Out, (inputs via BNC) |
| **Video Out** | HDMI (1080P, 720P, 480P) |
| **Construction** | Andonized Machined Aluminum Housing |
| **Power** | Rechargeable Lithium-Ion Pack – 4 hours, or 10-26 VDC external power supply |
| **Power Consumption** | 40 W 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

| | |
|---|---|
| **WiFi** | 802.11 b/g/n, Security: Open, WEP, WPA(2) - PSK |
| **Image Memory** | Upgrade to 8GB total |
| **Built-In Storage** | Solid State Drive (SSD) 64GB, 128GB or 256GB |

## Sample Frame Rates and Resolutions

| Frame Rate | Resolution | | 4GB Capacity | | 8 GB Capacity | |
|---|---|---|---|---|---|---|
| Rate | H. | V. | Time sec. | Frames | Time sec. | Frames |
| 125 | 800 | 600 | 70.9 | 8,868 | 142.5 | 17,815 |
| 250 | 800 | 600 | 35.5 | 8,868 | 71.3 | 17,815 |
| 500 | 800 | 600 | 17.7 | 8,868 | 35.6 | 17,815 |
| 1000 | 800 | 600 | 8.9 | 8,868 | 17.8 | 17,815 |
| 1250 | 800 | 600 | 7.1 | 8,868 | 14.3 | 17,815 |
| 125 | 640 | 480 | 110.8 | 13,855 | 222.7 | 27,835 |
| 250 | 640 | 480 | 55.4 | 13,855 | 111.3 | 27,835 |
| 500 | 640 | 480 | 27.7 | 13,855 | 55.7 | 27,835 |
| 1000 | 640 | 480 | 13.9 | 13,855 | 27.8 | 27,835 |
| 1250 | 640 | 480 | 11.1 | 13,855 | 22.3 | 27,835 |