

FASTEC IMAGING™
HIGH SPEED IMAGING IN THE PALM OF YOUR HAND



TS3 100-S



TS3 100-S At A Glance

- Handheld, Battery Powered, Built-in LCD
- 1280 x 1024 at 500 fps CMOS Sensor
- Up to 256GB of onboard image storage
- Multiple removable storage options
- Web Camera Control via 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-S puts the power of a traditional high-speed camera in the palm of your hand. The TS3 is truly a point-and-shoot, high-speed camera.
- **High Resolution High-Speed Images** - The TS3 100-S records at 1280 x 1024 resolution at over 500 frames per second, providing ultra-sharp images. With recording rates in excess of 20,000 frames per second at reduced resolutions, almost no event is too fast for the TS3.
- **Flexible Control** - The TS3 100-S can be operated as a self-contained, handheld camera, or controlled over Gigabit Ethernet using a PC or Mac, or even over the Internet using a standard web browser for long distance control.
- **Multiple Storage Options** - The TS3 100-S features both a USB port and an SD port to allow users to easily download images to thumb drives, SD cards, or portable hard drives. Additionally, an optional built-in SSD (solid state drive) provides for up to 256GB of non-volatile internal storage. Shoot all day long without having to download to a computer

Fastec TS3 Model 100-S

Camera Specifications

Standard Features

System Design	Stand-alone, battery powered, portable with multiple PC I/O ports
Sensor	10-bit CMOS sensor with 14 µm square pixel, color or monochrome
Resolution	1280 x 1024 pixel maximum
Light Sensitivity	3,200 ISO monochrome, 1,600 ISO color
Record Rate	500 fps at 1280 x 1024, up to 20,000 fps at reduced resolution
Shutter	Global electronic shutter (2 µsec to 1 second)
Image Memory	2GB standard, (Optional 4GB or 8GB)
Removable Storage	SDHC, (32GB maximum)
Memory Partition	1, 2, 4, 8 or 16 individual recording partitions
File Formats	Stack - BMP, TIFF, JPG; Video – AVI, CinemaDNG (Processed or RAW)
Still Image Format	JPEG
Lens Mount	C-Mount or F-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	Mac, Windows or Linux OS compatible via Web Browser or Custom App.
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	Machined Aluminum Housing
Power	Rechargeable Lithium-Ion Pack – 4 hours, or 10-26 VDC external power supply
Power Consumption	7.5 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

Image Memory	Upgrade to 4GB or 8GB total
Built-In Storage	Solid State Drive (SSD) 64GB, 128GB or 256GB

Sample Frame Rates and Resolutions

Frame Rate	Resolution		2GB Capacity		4GB Capacity		8GB Capacity		
	Rate	H.	V.	Time (sec.)	Frames	Time (sec.)	Frames	Time (sec.)	Frames
125	1280	1024		13.1	1,640	26.1	3,279	52.2	6,529
250	1280	1024		6.6	1,640	13.1	3,279	26.1	6,529
500	1280	1024		3.3	1,640	6.5	3,279	13.0	6,529
500	1280	720		3.3	2,330	9.3	4,643	18.6	9,286
1000	800	600		4.5	4,457	8.9	8,914	17.8	17,828
1000	640	480		7.0	6,964	13.9	13,928	27.9	27,856
1250	800	600		3.6	4,457	8.9	8,914	14.3	17,828
2000	512	512		4.1	8,161	8.2	16,321	16.3	32,643
4000	320	240		7.0	27,848	13.9	55,696	27.9	111,392
5000	300	286		5.0	24,700	9.9	49,400	19.8	98,800
10000	200	166		6.2	62,200	12.4	124,400	24.9	248,800
15000	160	120		7.5	111,825	14.9	223,650	29.8	447,300
20000	160	86		7.8	156,100	15.6	312,200	31.2	624,400