TS5: The power of a complete high-speed camera system in the palm of your hand!

Standard Features

- *7" Touch display for control and playback*
- *Internal Battery--up to 4hrs of operation*
- *Advanced 2560 x 2080 12-bit CMOS sensor*
- *5µ low-noise pixel for superior depth of field and high system magnification*
- *Full HD frame rates above 600fps*
- *Over 20,000fps 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*

At home in the manufacturing plant, on the athletic field, in the lab, or commercial studio, the TS5 is the most versatile high-speed camera you will find!

Recording Rates and Time

Normal Mode*

Resolution	Max Frame Rate	Recording Time
2560 x 2048 (QSXGA)	253 fps	6.3 sec
2560 x 1440 (QHD)	359 fps	6.3 sec
1920 x 1080 (HD: 1080p)	634 fps	6.5 sec
1440 x 1080	634 fps	8.5 sec
1280 x 1024 (SXGA)	991 fps	6.4 sec
1280 x 1014	1001 fps	6.4 sec
1280 x 720 (HD: 720p)	1403 fps	6.5 sec
1000 x 1000	1015 fps	8.2 sec
1024 x 768 (XGA)	1316 fps	8.1 sec
800 x 600 (SVGA)	1677 fps	10.4 sec
800 x 450	2221 fps	10.5 sec
768 x 576	2764 fps	6.8 sec
640x480 (VGA)	3289 fps	8.3 sec
512 x 384	4061 fps	10.5 sec
320 x 240	6267 fps	17.4 sec
64 x 32	29090 fps	2min 19 sec

Left-side category labels: TS5-Q: QSXGA, TS5-H: HD 1080p, TS5-S: SXGA, TS5-L: SVGA

Long Record Mode**

Resolution	Max Frame Rate	Recording Time
2560 x 2048 (QSXGA)	91 fps	34.9 min
2560 x 1440 (QHD)	130 fps	34.7 min
1920 x 1080 (HD: 1080p)	231 fps	34.7 min
1440 x 1080	308 fps	34.7 min
1280 x 1024 (SXGA)	366 fps	34.7 min
1280 x 1014	369 fps	34.7 min
1280 x 720 (HD: 720p)	520 fps	34.7 min
1000 x 1000	478 fps	34.7 min
1024 x 768 (XGA)	610 fps	34.7 min
800 x 600 (SVGA)	993 fps	34.7 min
800 x 450	1331 fps	34.7 min
768 x 576	1084 fps	34.7 min
640x480 (VGA)	1562 fps	34.7 min
512 x 384	2441 fps	34.7 min
320 x 240	5000 fps	42.8 min

Left-side category labels: TS5-Q: QSXGA, TS5-H: HD 1080p, TS5-S: SXGA, TS5-L: SVGA

All specifications subject to change. All record rates assume 8-bit data.
*Record times assume 8GB of memory. Divide Record times by 2 for approximate 4GB record times.
**LR Record times assume "D" option and 1TB SSD. Divide by 2 for 512GB SSD; multiply by 2 for 2TB SSD.

TS5 Specifications

Standard Features

System Design	Handheld, battery-powered, portable with touchscreen LCD
Sensor	12-bit CMOS sensor with 5μm square pixels, color or monochrome
Sensor Modes	Standard, binning 2x2 or 4x4; sub-sampling 2x2 or 4x4; Or 2x binning + 2x sub-sampling
Resolution by Model	TS5-Q: QSXGA 2560 x 2048; TS5-H: HD 1920x1080; -S: SXGA 1280x1024; -L SVGA 800x600
Light Sensitivity	1600 to 12,800* ISO monochrome, 800 to 6400* ISO color (depending on mode)
Shutter	Global electronic shutter from 3μsec to 41.654ms
Image Memory	4GB (std.) or 8GB (optional)
Removable Storage	SD card (SDHC: 32GB maximum); USB flash drive
File Formats	Stacks – BMP, DNG (color), JPEG (selectable quality), TIFF, TIFF(raw); Video – AVI (selectable quality (compressed) or un-compressed), CAP(raw); Still – JPEG
Lens Mounts	C-mount (all cameras ship with C-mount), F-mount or PL-mount (optional)
Built-in Monitor	High resolution, 178mm (7") diagonal LCD
Communication Ports	USB 2.0 device port (micro-B), Ethernet (10/100/1000Base-T)
Control Software	FasMotion (PC/Mac application), web interface (web browser on all platforms)
Six External I/O Ports	Trigger In/Out, Sync In/Out, Arm In/Out (LVTTL (3.3V) or switch closure); Any or all of the I/O ports may be used as Marker inputs
Marker Data Views	Camera display info line, playback timeline, FasMotion o-scope mode, XML file
Video Out	HDMI (1080p30, 1080p60, 720p, 480p)
Construction	Anodized machined aluminum housing
Power	Rechargeable Internal Li-ion battery or 10-26 VDC external
Power Consumption	42W 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
Built-In Storage	Solid State Drive (SSD): 256GB, 512GB, 1TB, 2TB
Long Record	Streams uncompressed video to SSD at 480MB/sec; 8GB mem. + SSD required; ships with an external battery pack

*Higher ISO settings available via bit-shifting and analog gains result in lower SNR. Binning modes reduce noise.

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All specifications subject to change.

TS5 Dimensions

I\O DOOR
SSD CARD
HDMI
MINI USB
POWER
GIG E

STRAP MOUNT

USB DOOR

STRAP MOUNT

[152.2]
5.99

[87.8]
3.46

3.62

[12.7]
.50

MOUNT
10-32 UNF

[106.9]
4.21

MOUNT
1/4-20 UNC

[206.2]
8.12

[222.1]
8.74

MOUNT
10-32 UNF

[3.1]
.12

0

0

[8.9]
.35

BATTERY COMPARTMENT

[13.6]
.54

STRAP MOUNT

[74.9]
2.95

MOUNT
10-32 UNF

C-MOUNT
1.0-32 TPI

[116.8]
4.60

[83.8]
3.30

[58.4]
2.30

[33]
1.30

[0]
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[237]
9.33

[130.7]
5.15

[105.3]
4.145

[79.9]
3.15

[0]
.000

ADAPTER MOUNT
#10-32 UNC ▽ .37
4X