

eosens TS5

High-Speed Handheld Camera



eosens TS5 Advantages at a Glance:

- Battery powered handheld high-speed camera
- Built-in LCD screen with on-screen menu system
- TS5-H and TS5-Q models record full 1080 px at 634 fps
- Advanced 5-Megapixel CMOS sensor
- Multiple recording modes to suit any situation
- More than 30 minutes recording time at full resolution and speed with long record option

High-Speed Handheld Camera

Performance to Fit

With four models, there is an eosens TS5 that is perfect for your needs. All models use an advanced 5-Megapixel sensor that produces remarkably clean images at all resolutions.

Easy to Use

With its small form factor, battery operation, large built-in LCD screen and intuitive on-screen menu system, the eosens TS5 puts the power of both a traditional high-speed camera and long-record system into the palm of your hand.

Ultra-Fast Save Times

While the eosens TS5 is saving to the onboard media you can simultaneously record your next high-speed snapshot. Uncompressed images are transferred via the Gigabit Ethernet at rates of 50 - 80 MB/sec, depending on your PC performance.

Long Record Option

Unlike traditional high-speed camera systems that record for only a few seconds, the long record option allows the eosens TS5 to record at high speed for more than 30 minutes, or even hours at reduced resolutions.



Technical Data

(More detailed specifications are available on request)

	eosens TS5		
System design	Handhe	eld, battery-powered, portable with tou	chscreen LCD
Sensor	12-bit CMOS sensor with 5 µm square pixels, color or monochrome		
Sensor Modes	Standard, binning 2x2, 4x4; sub-sampling 2x2, 4x4; 2x bin + 2x sub		
Resolution by Model	TS5-G: QSXGA 2,560 x 2,048 pixel; TS5-H: HD 1,920 x 1,080 pixel; TS5-S: SXGA 1,280 x 1,024 pixel; TS5-L SVGA 800 x 600 pixel		
Light Sensitivity	1,600 to 12,800* ISO monochrome, 800 to 6,400* ISO color (depending on mode)		
Shutter	Global electronic shutter from 3 µsec to 41.654 ms		
lmage Memory	4 GB, optional 8 GB		
Removable Storage	SDHC - 32GB maximum; USB flash drive		
File Formats	Stacks - BMP, DNG, JPEG, TIFF, TIFF (raw); Video - AVI, CAP (raw); Still - JPEG		
Lens Mounts	C-Mount, optional F-Mount or PL-Mount		
Built-in Monitor	High resolution, 178 mm (7") diagonal LCD		
Communication Ports	USB 2.0 device (micro-B), Ethernet (10/100/1000 Base-T)		
Control Software	Mac, Windows or Linux OS compatible via web browser		
Six External I/O Ports	Markers, Trigger In/Out, Sync In/Out, Arm In/Out (LVTTL (3.3V) or switch closure)		
Video Out	HDMI (1080P, 720P, 480P)		
Construction	anodized machined aluminum housing		
Power	rechargeable Lithium-Ion Pack – 4 hours, or 10 - 26 VDC external power supply		
Power Consumption	42W		
Dperating Environment	5°C 40°C		
Camera Size	228 x 114 x 89 mm		
Weight	1.8 kg, without lens		
Optional Extensions			
WiFi	802.11 b/g/n, Security: open, WEP, WPA(2) - PSK Solid		
Solid State Drive (SSD)	256 GB, 512 GB or 1 TB		
Long Record Option	Streams uncompressed video to SSD at 480 MB/sec; 8 GB memory and SSD required; ships with an external battery pack		
Sample Record Rates and Time	es		
Model	Resolution	Frame Rate	Recording Time
Normal Mode with 8 GB memor	'y		
TOE O	2,560 x 2,048 px	253 fps	6.3 sec
TS5-Q	2,560 x 1,440 px	359 fps	6.3 sec
TOF II	1,920 x 1,080 px	634 fps	6.5 sec
TS5-H	1,440 x 1,080 px	634 fps	8.5 sec
TS5-S	1,280 x 1,024 px	668 fps	9.7 sec
	1,024 x 768 px	886 fps	12.0 sec
	800 x 600 px	1,126 fps	15.5 sec
TS5-L	512 x 384 px	1,732 fps	24.7 sec
Long Record Mode with 1 TB SS	5D		
TS5-Q	2,560 x 1,440 px	130 fps	34.7 min
TS5-H	1,440 x 1,080 px	308 fps	34.7 min
TS5-S	1,024 x 768 px	610 fps	34.7 min
TS5-L	320 x 240 px	5,000 fps	42.8 min

MIKROTRON GmbH

MIKROTRON GmbH provides a full range of high-speed imaging solutions for challenging applications in industry, engineering, science and sports. The company's extreme slow-motion recording enables customers to optimize manufacturing processes, improve product design, revolutionize quality management and analyze motion.

Germany

Landshuter Str. 20-22 D-85716 Unterschleissheim Phone: +49(0)89-726342-00 E-Mail: info@mikrotron.de Web: www.mikrotron.de

North America

14032 Hermosillo Way US-Poway, CA 92064 Phone: +1-858-774-1176 E-Mail: steve.ferrell@mikrotron.de

Web: www.mikrotron.de





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