



eosens TS3 100-S

High-Speed Handheld Camera



High-Speed Handheld Camera

Suited for Various Applications

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

Detailed High-Speed Images

The eosens TS3 100-S records over 500 frames per second at 1,280 x 1,024 resolution, providing ultra-sharp images. With recording rates in excess of 60,000 frames per second at reduced resolution, almost no event is too fast for the eosens TS3.

Flexible and Easy to Use

The eosens TS3 100-S can be operated as a self-contained, handheld camera, or controlled over Gigabit Ethernet using a PC or Mac. The camera can be operated over the internet as well as wirelessly while using any device with a web browser.

Multiple Storage Options

The eosens TS3 100-S features USB-port, SATA-ports and a SD-card slot to allow easy downloads of images and videos to thumb drives, SD-cards or portable hard drives. Additionally, an optional built-in SSD (Solid State Drive) provides for up to 512 GB of non-volatile internal storage. This enables high-speed recordings without long download breaks between the recordings.

eosens TS3 100-S Advantages at a Glance:

- Battery powered handheld high-speed camera
 - Built-in LCD-screen with on-screen menu system
 - 500 frames per second at 1,280 (H) x 1,024 (V) pixel resolution
 - Up to 13 seconds onboard Recording Memory at full resolution and speed
 - Up to 512 GB of onboard image storage
 - Multiple removable storage options
 - Remote control via WIFI
 - Adjustable frame rate up to 60,000 fps
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Technical Data

(More detailed specifications are available on request)

	eosens TS3 100-S
System design	stand-alone, battery powered, portable with multiple I/O ports
Sensor	10-bit CMOS sensor with 14 µm square pixel, color or monochrome
Resolution	1,280 (H) x 1,024 (V)
Light sensitivity	3,200 ISO monochrome, 1,600 ISO color
Image speed	1 – 500 fps at full 1,280 (H) x 1,024 (V) resolution, up to more than 60,000 fps at reduced resolution
Recording time	12.8 s at full resolution and full speed, extended recording times at reduced resolution and/or frame rate
Shutter	global electronic shutter from 2 µs to > 40 ms
Image memory	4 GB
Removable storage	SDHC, 32 GB maximum
Memory partition	1, 2, 4, 8 or 16 individual recording partitions
Frame storage	Stack – JPG, TIF, BMP, DNG Video – AVI, CAP (raw)
Still image format	JPEG
Lens mount	C-Mount or F-Mount and PL-Mount
Built-in monitor	high resolution, 178 mm (7") diag. LCD
PC I/O ports	USB (1 Host & 1 Device), SD-Card, Ethernet (10/100/1000 Base-T)
PC-Control Software	Mac, Windows or Linux OS compatible via web browser or custom app.
Trigger	contact closure or low voltage TTL (3.3 V 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 V DC external power supply
Power consumption	40 W
Camera body temperature	+5 ... 40 °C
Camera size	228 x 114 x 89 mm
Weight	1.8 kg, without lens

Resolution and corresponding frame rate

1,280 x 1,024	500 fps
640 x 480	1,869 fps
512 x 51	2,033 fps
320 x 240	4,000 fps
300 x 286	5,000 fps
160 x 86	20,000 fps

fps = frames per second

Optional Extensions

- Upgrade of the Image Memory to 8 GB total
- Solid State Drive (SSD) with 64 GB, 128 GB or 256 GB

MIKROTRON GmbH

MIKROTRON is a renowned manufacturer of small and robust high-speed cameras on the international industrial image processing market. Due to their outstanding performance characteristics the cameras are perfectly suited for usage in industrial and scientific applications, as well as in sports analysis, advertisements or documentaries.

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