High-Speed Images in the palm of your hand

- **Battery powered handheld high-speed camera**
- **Built-in LCD-Screen with on-screen menu system**
- **1.250 frames per second at 800 (H) x 600 (V) pixel resolution**
- **Up to 14 seconds onboard Recording Memory at full resolution and speed**
- **Up to 256 GB of onboard image storage**
- **Multiple removable storage options**
- **Web camera control via browser**
- **Adjustable frame rate up to 20,000 fps**

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-L 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-L records over 1.250 frames per second at 800 x 600 resolution, providing ultra-sharp images.

Flexible and easy use

The eosens TS3 100-L can be operated as a self-contained, handheld camera, or controlled over Gigabit Ethernet using a PC or Mac. The camera could be operated even over the Internet using a standard web browser for long distance control.

Multiple storage options

The eosens TS3 100-L features both – an USB port and a 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 256 GB of non-volatile internal storage. This enables high-speed recordings without having an interim download to a computer.

Technical Data

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	800 (H) x 600 (V)
Light sensitivity	3,200 ISO monochrome, 1,600 ISO color
Image speed	1–1,250 fps* at full 800 (H) x 600 (V) resolution
Recording time	– 3.6 s at full resolution and full speed – extended recording times at reduced resolution and/or frame rate
Shutter	global electronic shutter from 2 µsec to 1 s
Image memory	2 GB
Removable storage	SDHC, 32 GB maximum
Memory partition	1, 2, 4, 8 or 16 individual recording partitions
Frame storage	– Stack – BMP, TIF, 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 (3.3 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 VDC external power supply
Power consumption	7.5 W max.
Camera body temperature	+5 … 40 °C
Camera size	228 x 114 x 89 mm
Weight	1.8 kg, without lens

* fps = frames per second

Optional Extensions

Upgrade of the Image Memory to 4 or 8 GB total · Solid State Drive (SSD) with 64 GB, 128 GB or 256 GB

Revision L / III

Special Electronics
Digital Slow Motion
Image Processing **MIKROTRON**