



Motion
Capture
Technologies

MCT Streamer 1.0 – High Speed Camera



MCT Streamer 1.0 – high speed power via USB3

The Streamer 1.0 is a high speed camera that connects directly to your PC via a single USB3 cable. The comprehensive software controls image acquisition, instant playback, post recording analysis, and file conversion. The high resolution sensor with 1.3 Megapixel provides frame rates from 200 fps at full resolution up to 3,225 fps by reducing the resolution.

The Streamer 1.0 is a High Speed Camera system combination of unique Software with state of the art camera hardware. The small USB3 camera delivers high resolution images directly to your PC. The Streamer 1.0 is ideal for educational purposes and for true mobile applications. This extremely economical high speed camera is the perfect companion when traveling and mobility are of the essence. Nevertheless, the Streamer 1.0, with its powerful camera control software leaves no functional compromise and offers all the advantages of a high speed camera such as circular buffer recording, and triggering by external discrete signals or by motion detection. In addition, for longer recording time, you may stream directly to hard disk for minutes or hours making sure to capture the most intermittent events of your measurements. Easy export of data to the most common movie formats is just another one of the many features of the software.

Unique features

- **Direct to PC** – While observing the scene in the live image Streamer 1.0 streams image data directly to your PC RAM or Hard Disk. The comprehensive software allows making the most demanding recordings and also supports 24/7h recordings.
- **Setup that works** – Camera and Software come from the same supplier, install Software, connect camera and you are ready to record.
- **Long recording times** – Recording times of minutes or even hours allow to record, analyze and archive a complete process in all detail, important to detect trends and to catch those sporadic and intermitted occurring incidents.
- **Image trigger** – extends the versatility of your Streamer 1.0 by letting the camera trigger the system when an incident is visually detected.

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Phone: (877) 798-8808
sales@mctcameras.com
Web: mctcameras.com

Streamer 1.0 - Key Specifications

Typical Recording Times vs Resolution/Frame Speeds

Resolution ▶	Resolution @ fps	Resolution @ fps	Resolution @ fps	Resolution @ fps	Resolution @ fps	Resolution @ fps
	1280 x1024 @ 203	1280 x 720 @ 284	1024 x1024 @ 249	800 x 600 @ 511	640 x 480 @ 750	128 x128 @ 3134
Memory ▼	Recording time	Recording time	Recording time	Recording time	Recording time	Recording time
2 GB RAM	8secs	8secs	8 secs	8.5 secs	13 secs	30 secs
500 GB SSD	34 mins	34 mins	34 mins	36 mins	56 mins	39 mins

Table shows typical recording time and fps with good PC performance. Recording time in memory depending on available free memory in PC

Typical Frame rates vs Resolution

	1024	800	720	640	600	512	480	320	256	128
1280	203	257	284	318	338	392	417	604	736	1308
1024	249	315	348	389	413	478	507	729	884	1538
800	311	392	432	482	511	591	626	892	1074	1818
720	341	429	473	527	559	645	683	968	1162	1941
640	378	475	523	582	617	710	751	1060	1267	2087
608	395	496	546	607	643	740	783	1101	1315	2150
512	156	572	628	698	738	847	895	1248	1481	2369
480	481	602	559	617	777	895	939	1305	1547	2450
320	663	823	900	994	1049	1193	1254	1700	1984	2967
256	732	905	989	1090	1148	1302	1369	1838	2132	3134
128	732	905	989	1090	1148	1302	1369	1838	2132	3134

Table shows typical resolution vs. fps, Resolution is freely adjustable within limitations of camera/sensor

Camera/Sensor specifications

Camera Model	USB 3 camera with CMOS sensor
Light Sensitivity	Color: ISO 2400 Mono: ISO 3600
Image Sensor	1280 x 1024 pixel with 8 Bit dynamic range
Sensor Size	4.8 µm pixel size / 1/2" (6,14 mm x 4,92 mm)
Dynamic Range	Sensor: 60 db, Output 8 Bit
Optical Fill Factor	56 %
Shutter Type	Global, independent of frame rate
Exposure Time	Free adjustable from 59 µsec to 1 / fps by software
Power	Via USB 3.0 Interface / 3 Watts
I/O Tolerance	Opto-coupled, 30V Tolerance Note: for switch closing contact triggering: USB Trigger Set part# 2200204 is required
Camera Mount	C-Mount

Data Interface (standard)

Data Interface	USB3 Interface with lockable connector on camera
I/O Interface	Hi-Rose HR10A-10P-12S (female)
Trigger In	TTL level, max +30 V, or switch closing contact Requires USB Trigger Set part# 2200204

PC requirements

Operation System	Win 7/10 64 bit
CPU	Pentium Core i5 or better
RAM	4 GB or higher (only part of it usable for recording)
Hard Disk	500 GB or more, SATA-3 standard Separate SSD for image data recording is strongly recommended in order to avoid damage to operation system partition
Interface	USB3: Full open USB3 interface dedicated for camera Recommended Chipset: Intel USB 3.0 eXtensible Host Controller
Graphic Card	Recommended is a good performing fast graphic card with dedicated memory

Software

Parameters	Camera control, recording settings, playback and file conversion
Auto-store function	Auto-store function in PC for 24/7 recording supported
Trigger Modes, Positions	Pre-post recording, adjustable by software to 0 % / 10 % / 25 % / 50 % / 75 % / 90 % / 100 % of total available recording time Re-arm after trigger for instantaneously new recording
File Formats	Recording in MCT native format for performance reasons, conversion to avi, mpeg, mpeg4 single Image formats such as BMP, JPEG TIFF Gif etc.
Snap Shot	Single snapshot of live Images supported
Motion Detection	Motion trigger and motion event marking in file
Event Markers / Bookmarks	Events in the sequence can be tagged by bookmarks for easy orientation / finding
OSD	Information on camera, recording features, time stamp, camera name may be added in image data, Position of OSD is set by user
Custom Specific	Extended functions for custom specific use are easy to integrate Contact us for further details

Physical specifications

Size	30 x 30 x 30 mm / 80 gr 1.18" x 1.18" x 1.18" / 0.18 lb
Operating Temperature	-0 ... +50 °C / +32 ... +122 °F
Storage Temperature	-40 ... +70 °C / -40 ... +158 °F
Mounting Threads	2 x M4 Mounting threads on bottom UNC ¼" on bottom for tripod mounting
I/O Connector	USB 3.0 Micro-B lockable connector Hirose micro plug (part number HR10A-7P-6S)
CE	In compliance with relevant standards

Scope of Supply

Included	<ul style="list-style-type: none"> • MCT Streamer 1.0 camera • 3 m USB cable, lockable on camera side • Software, Manual and documentation on CD
Optional Accessories	<ul style="list-style-type: none"> • USB Trigger Set • LED lights • Mounts and Tripods • Lenses • Extended cabling solutions

Ordering information

MCTS1.0C	<ul style="list-style-type: none"> • MCT Streamer 1.0 camera color • 3 m USB cable, lockable on camera side • Software, Manual and documentation on CD
MCTS1.0M	<ul style="list-style-type: none"> • MCT Streamer 1.0 camera monochrome • 3 m USB cable, lockable on camera side • Software, Manual and documentation on CD



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