

TroubleBox

The affordable high speed vision system for slow motion industrial process analysis



- Live slow motion recording and playback of any high speed process
- Portable, rugged, and easy to use
- Advanced auto-triggering options for random event capture
- Windows™ touchscreen interface
- Ideal for troubleshooting, maintenance and optimisation of any high speed process:
 - ✓ Bottling lines
 - ✓ Packaging manufacture
 - ✓ Food production lines
 - ✓ Plastic container manufacture
 - ✓ Pharmaceutical packaging
 - ✓ Component manufacturing
 - ✓ Paper manufacture
 - ✓ Printing
 - ✓ Amusement parks

Simple and affordable.

Up and running in minutes, TroubleBox gives you the power to see, capture, and understand the fastest details of your high speed process in perfect ultra-slow motion. With easy to use functionality, process optimisation, maintenance and troubleshooting procedures have never been easier, thanks to TroubleBox's simple Windows interface, easy to use slow motion software, and high performance camera system.

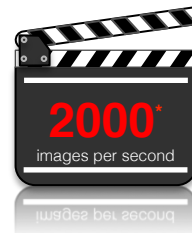
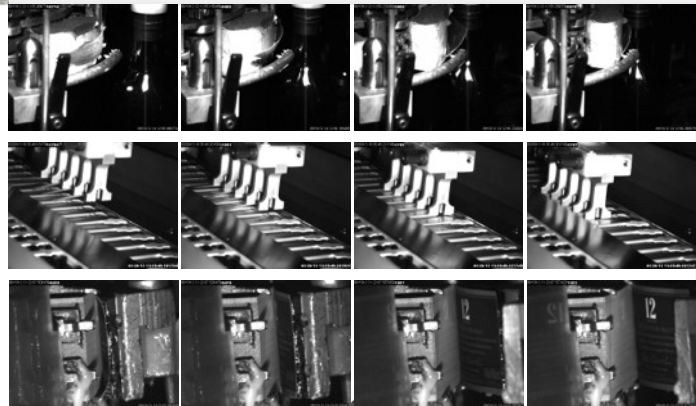


Durable and portable.

TroubleBox is designed with rugged portability in mind. The embedded touchscreen PC system and all mounting accessories are self-contained in a lockable, custom built, high impact Pelican StormCase™ guaranteeing safe, secure transit and storage of your TroubleBox system and its accessories at all times.

Powerful as standard.

TroubleBox utilises the latest Gigabit Ethernet data transfer technology and combines it with high definition optical zoom lens technology. This powerful combination gives you the ability to capture and analyse the very fastest details of your process at whatever magnification you like, and from whatever distance you like.



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VISION

Instantly intuitive.

TroubleBox's simple user interface can be mastered in just minutes, adding value immediately to your processes through minimal training, and instant utilisation. Simply aim the camera at your high speed process, start recording, and enjoy frame by frame slow motion video of your process. All captured video can be easily exported onto a USB stick and into a variety of popular formats including QuickTime® and AVI, even as individual thumbnails with microsecond timestamps!



Versatile and adaptable.

Each TroubleBox system includes a comprehensive accessory kit consisting of a series of universal mounts and clamps. These components enable easy and rapid mounting of the camera and powerful 1400 lumen LED floodlight to almost any surface or mounting point in any type of machine or process, and inside most safety barriers. With an accessory range including vacuum mounts and waterproof camera housings, TroubleBox is adaptable to virtually every industrial environment.



Expand and integrate.

TroubleBox is designed to grow with your process. As standard, the system includes many advanced features such as the powerful supervisor mode – a motion detection trigger function that is able to detect and capture the fastest events with zero human intervention. With the optional I/O control module add-on, TroubleBox even has the ability to send a stop signal directly to your process control unit.



Hardware Specification

Model number	TB200	TB200+	TB500
Camera	SolinoCam 200		SolinoCam 500
Std. capture speed	260 images/second		500 images/second
Max. capture speed	600 images/second		2000 images/second
Onboard PC	Standard industrial PC with touchscreen. Pre-installed TroubleBox software suite, Windows 7 64 bit OS	High performance industrial PC with touchscreen. Pre-installed TroubleBox software suite, Windows 7 64 bit OS	
Recording capacity	1 second - 20 minutes	1 second - 45 minutes	
Resolution	640 x 480		
Lens	8-48mm Macro Zoom with onboard iris, focus and zoom controls		
Illumination	1400 Lumen 12V flood		
Connectivity	2 x USB2, 1 x RJ45		
Keyboard	Wireless micro keyboard with trackball mouse and capture trigger		
Transportation	Impact resistant IP67 wheeled flight case. Universal Camera & Lens Mounting Kit including tripod and all accessories		
Included accessories	2 MagicArm™ clamp mounts enabling camera and LED flood light to be positioned and securely locked to any orientation.		
Dimensions	620mm x 520mm x 275mm / Weight 12Kg		
Power	110V-240V AC / UK/EU/US Power cables available – standard length 5m		
Options	I/O Control Box Module / 24 channel input output control of trigger signals. Endoscope attachment / permits access to difficult locations Microscope module / for high magnification inspection Suction mount / enables camera or illumination module to be fixed to glass or metal surfaces Extra long power cable / 5m / 6m / 8m / 10m		

Software Specification

Recording

- One click recording
- Record directly to disk or RAM
- Capture to AVI in real-time
- Pre/post triggering function
- Motion controller module enabling auto detection and capture

Playback

- Playback at any speed forward or backwards in slow motion
- Familiar VCR-like controls
- Select a range within a sequence for playback, save or export
- Instantly access previously recorded sequences
- Absolute or relative timestamp displayed as image overlay

Export

- Export video sequences to AVI or QuickTime directly to USB memory stick or to a network
- Save frame to disk or copy to clipboard as BMP, JPEG, TIFF



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