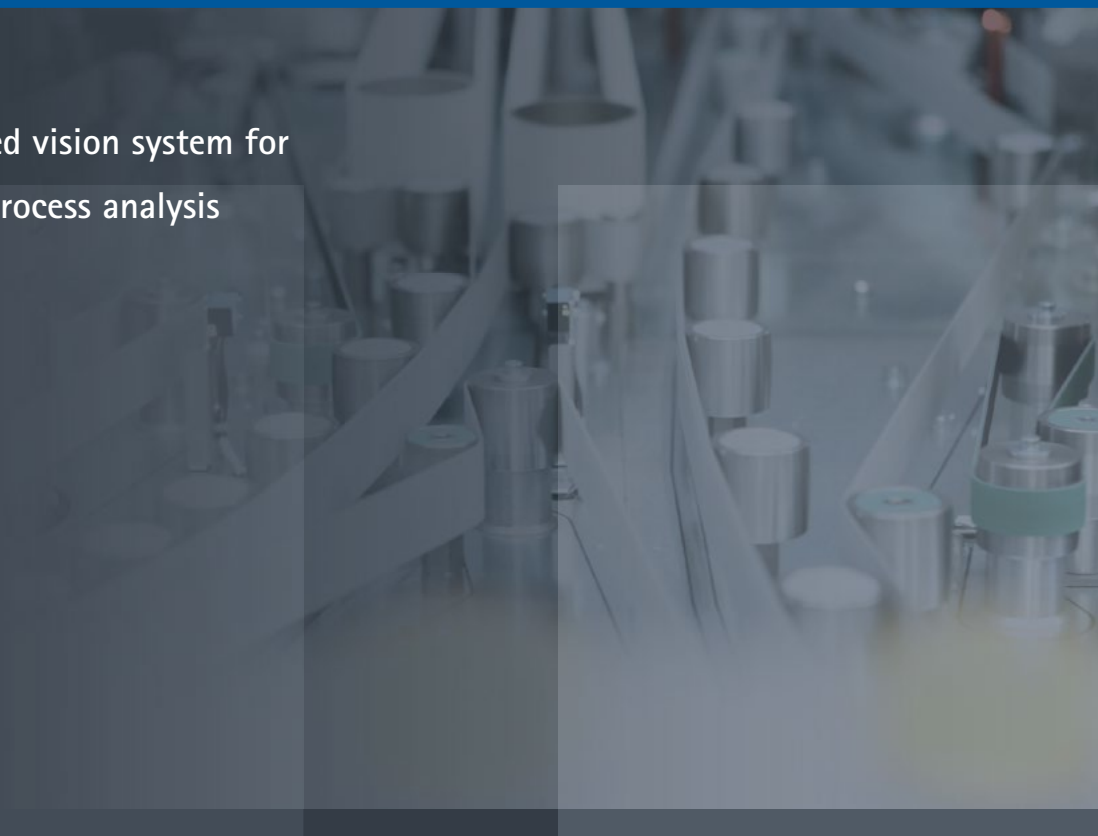# TroubleBox

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

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Applications

- Bottling lines

- Packaging manufacture

- Food production lines

- Plastic container manufacture

- Pharmaceutical packaging

- Component manufacturing

- Paper manufacture

- Printing

- Amusement parks

- 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

Designed exclusively for
heavy duty industrial use in
either Trolley or Pelicase formats
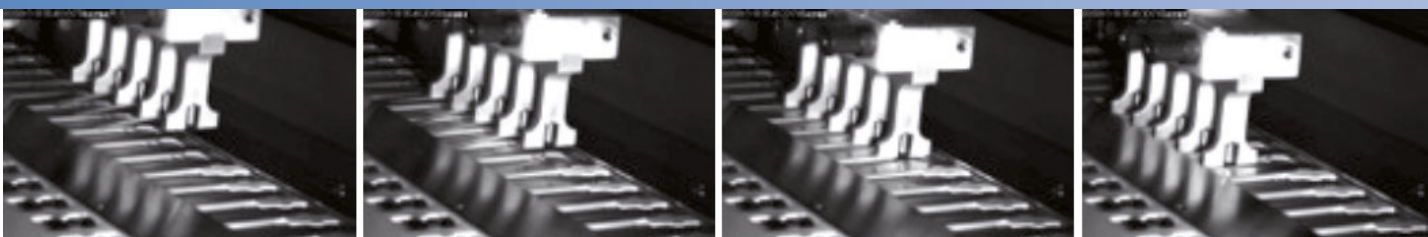
Simple and affordable

Up and running in minutes, TroubleBox gives you the ability to see, capture, and troubleshoot the fastest details of your high speed process in perfect ultra-slow motion. Process optimisation, maintenance and problem solving has 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 available in 2 formats according to operating environment and user preference – either a transportable Pelicase or Stainless steel trolley chassis. Both configurations feature the same high performance, industrial grade PC system and onboard storage for all accessories, meaning that TroubleBox is ready to be deployed in seconds anywhere on your production line.

Powerful as standard

TroubleBox utilises the very 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.

Instantly intuitive

TroubleBox's simple user interface can be mastered in just
minutes, adding value immediately to your processes through
minimal training, and an enjoyable user experience. 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
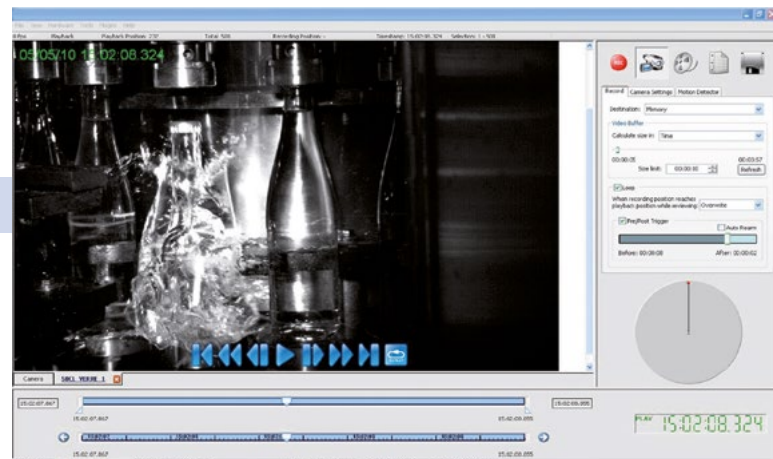AVI, or as individual thumbnails with microsecond timestamps.

Versatile and adaptable

Every TroubleBox system includes a comprehensive accessory
kit consisting of a series of universal mounts and clamps. These
accessories 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. The
system includes many advanced features as standard,
including the configurable pre-record buffer, ensuring
that the very fastest events can be captured by any user
of any ability. The systems can be configured with a
powerful supervisor mode – a motion detection trigger
that is able to automatically detect and capture the
fastest events with zero human intervention. Finally,
with the optional I/O control module, TroubleBox even
has the ability to be triggered by your process controller
in the event of a system stoppage.

Easy to use
Windows™ interface

Specification

Model	TroubleBox V3
Camera	DR1 2048 x 1088 (B/W or color)
Resolution | Capture Speed	2048 x 1088 85 fps
	1024 x 1024 180 fps
	512 x 512 709 fps
	480 x 640 570 fps
	320 x 320 1118 fps
Recording capacity	1 second – 60 minutes
Software	TroublePix high speed imaging suite
Lens	8 - 48 mm Macro Zoom Lens with onboard iris, focus & zoom controls
Illumination	1400 Lumen 12V LED flood light
Connectivity	2 x USB2, 1 x RJ45 Gigabit Ethernet
Keyboard	Wireless micro keyboard with trackball & capture trigger

Trolley configuration

Onboard PC	Ultra high performance industrial embedded PC with external gantry mounted monitor
Transportation	Food grade stainless steel trolley stand featuring lockable door, internal shelf space, lockable ball bearing coaster wheels, accessory & monitor mounting bar, integrated auto-return power cable mechanism, PC securely and invisibly integrated into trolley, cable hooks at rear

Pelicase configuration

Onboard PC	Ultra high performance industrial embedded PC with integrated touchscreen
Transportation	Water and shock resistant Pelicase featuring CNC cut foam inserts for camera, lighting module and all accessories. Telescopic carry handle for easy portability. Touchscreen integrated into Pelicase lid, PC integrated invisibly into Pelicase.

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