



industrial, easy & **real-time**



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Do you want to tune and time your equipment while “seeing” it?

Each millisecond counts!

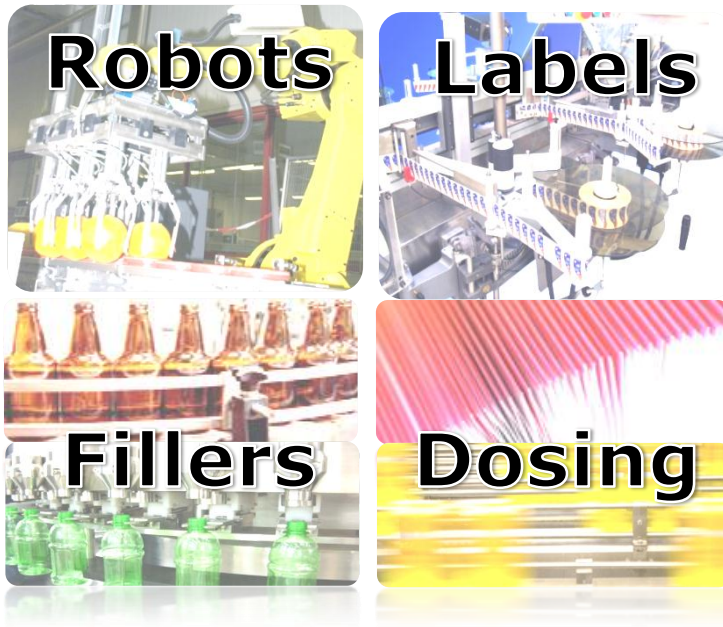
**Just watch, analyze
and fix it**



Designed with the experience of
being maintenance technicians:

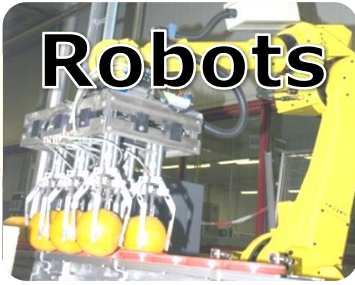
- Easy & portable
- Robust
- Real time

Read on if you have:



(Or other packing/manufacturing equipment)

Tune & time your applications



Robots

Tune and time your Robots

Troubleshoot your line and reduce the “dead time” of your robot.

Understand the different movements and waiting times to compensate for a variation in product mixes and to solve handling challenges.

Save on vacuum time & energy costs.



Fillers

Tune and time your Bottle line

Avoid discussions with subcontractors and **measure on a millisecond level** what your line is doing.

Make sure that the different parts of your line are synchronized.

You need **easy** handling, as the “issue” could be anywhere on the line



Labels

Optimize Labeling & Printing devices

Understand the different behaviours of your different labels on different products

Customize your label landing speed to be tuned together with your line speed

Adjust the air pressure/blowing time to their optimal settings



Dosing

Lower overusage on Dosing equipment

Fix your product triggering to make sure that your product is actually there when needed.

Time your dosing to **minimize overusage** (eg. Glue)

Measure your counting and adjust your pushers properly with a 5 milliseconds accuracy

You want a **real-time** view to fix issues on-the-spot!

Call us to contact our references:



Or get in touch to assess if and how we (or our local partners in 6 countries) could help you solve your challenges

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Patented* **Real-Time** high speed function to really see and measure what is happening while the line is running:

- **Look only at interesting parts** of your cycle & increase user comfort by saving up to 90% 'watching'-time
 - If you film 1000 fps, you can watch at 25 fps, so you need 40 seconds to watch each filmed second!
- Simplify your recording with advanced trigger techniques ... and **film the RIGHT events, time after time**
 - Tune your line events by synchronizing your high speed video with your line



Real time function demo on our website: www.cyclocam.be

*Extensive, granted "real time" patent claims in EU, Japan and the US (EP1761058B1)

²The Real-Time camera can also do the standard high speed functions

Technical features of the Cyclocam



Portable & Easy to use

- **Portable** and fast to use with integrated screen
 - No additional computer required
 - Light: 1,1 to 1,3 kg**, depending on options
- **Battery autonomy of ± 90 min.** with internal charging
 - Up to 200 min.** autonomy with optional extra PowerPack
- **Synchronize your recordings to your production** using the available triggers or connect the Cyclocam to your equipment

Developed for industrial equipment optimization

- Time-saving, **real-time cyclical filming with time measurement up to milliseconds** (high speed at 250fps-500fps-1000fps, up to 20 000fps in low resolution, with **15 to 60s high speed recording time**)
- **Download the recordings** in AVI or XVID for later discussion with colleagues or to **Remote Control** through an 100 Mbit Ethernet interface for use in restricted areas
- **See in TV-quality** with our CMOS sensor 1/2", up to 640x480 pixels (**future-proof** as it will be upgradeable to 2048x732 pixels)

Flexible to adapt to different applications



- If needed, the Cyclocam can also work as a normal High Speed Camera
- Extensive offer of options available
- Any standard industrial lenses from your usual supplier will be compatible with its' C-mount

Technical features of the CycloBox



Easy to use

- **Mount the CycloBox easily on difficult spots** like hot steel equipment, dangerous locations or inside Plexiglas covers
- **Synchronize your recordings to your production** using the available triggers or connect the CycloBox to your equipment
- **Remote Control** through an 100 Mbit Ethernet interface for use in difficult or restricted areas

Developed for industrial equipment optimization

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Selected options



Consulting & expertise

Expert support to troubleshoot your line

- Temporary need for multiple cameras
- Exceptional need for specialized solutions

Lenses

Selected high quality lenses with high light sensitivity for use with ultra-fast shutter times in high speed recording

- Lens 6 mm / F 1.2
- Lens 25mm / F 0.95
- Lens 50mm / F 0.95
- Lens 8-48mm / F 1.0 zoom lens
- Lens 18-108mm macro zoom



External / Remote triggers

Customized triggers to remotely or automatically control what and when you film

- High accuracy manual remote control
- 1000 Hz laser triggered automatic remote control
- 1000 Hz laser triggered automatic remote control



Tripods & supports

Professional support equipment to hold your Cyclocam steady for long recording sessions, automatic triggers or remote controls

- Tripod with ball grip for easy filming
- Monogrip magic arm to mount on your equipment
- High vacuum suction unit for mounting on glass



Lighting

- High intensity light, 1000W, ultracompact
- LED ringlight customized for Cyclocam, 12W, 220V
- LED ringlight customized for Cyclocam (batteries)



PowerPack

- Triple your batteries: autonomy from 2200 mAh to 6600 mAh (from 90 min to over 200 min)