

CLARA
VISION

TroublePad

HIGH SPEED CAMERA

Process Analysis
Production Line Troubleshooting



STRAIGHTFORWARD
**HIGH SPEED
IMAGING**

TroublePad

SELF-CONTAINED, SIMPLE, ULTRA COMPACT, AFFORDABLE

High-speed camera for production line
and rapid cycle machinery troubleshooting.

- » Quick setup
- » Easy to use
- » Small footprint
- » Self-contained
- » Return on investment



THE ESSENTIALS: SIMPLE AND EFFECTIVE

TroublePad is an **ultra-portable high-speed video system**. TroublePad's high-speed camera enables you to **capture**, **analyse** and **understand** **fleeting or random events** that occur on your **production line** or **specialised** rapid cycle **machinery**.



TroublePad high-speed camera on its bracket mount, and tablet-based software



TroublePad workstation in its carrying case

TroublePad

- » Is quick to install
- » Is self-contained
- » Has built-in lighting
- » Works with an integrated software interface on a tactile tablet
- » Packs away into a practical carrying case

CAPTURE DEFECTS THAT ARE INVISIBLE TO THE NAKED EYE! BREATHTAKING SLOW-MOTION IMAGES!



EASY TO USE AND TOTALLY INTUITIVE

With the high-speed TroublePad camera you'll be recording your first images in just a few minutes.

Instant slow-motion replay will help you **understand the anomalies** that are **impossible to detect with the naked eye**.

At your fingertips, all the functionality of TroublePad's software:



Recording



Key event **selection and playback**



Video export in **AVI format**



Simplified user interface for maximum ease of use



ONLY RECORD WHAT YOU NEED

TroublePad's loop recording makes sequence analysis easier, with only the key moments being retained.

The **(optional) Trigger box** enables you to **pilot the TroublePad** software using signals from your own system's sensors! You can:



Start/stop recording with automatic rearm



Mark **key images**



Retain a few seconds before and after your sensors' signal (pre-post triggering)

**TROUBLEPAD IS YOUR
"WATCHDOG", MAKING SURE
YOU ONLY KEEP WHAT
YOU NEED!**

You'll be able to spot the random
events in your production line
with ease.

EASE OF USE
is our byword



TECHNICAL SPECIFICATIONS

Recommended speed	570 images/sec at 800 * 600 resolution
Standard speed	225 images/sec at 1280 * 1024 resolution
Other possible speeds	850 images / sec at 640 * 480 resolution 1500 images / sec at 500 * 300 resolution 2500 images / sec at 320 * 240 resolution
Lighting	Adjustable 204 LED, operating on batteries (6 x AAA), power pack or mains Power: 1400 lux at 1 meter Weight: 250 gr
Optics	C mount – 8-48 mm macro zoom lens, with 1D, 2D, 4D, 10D close-up
Mount	'Magic' arm with variable friction for camera and lighting

Tablet	12-inch tactile screen Intel Core processor – 8 Gb RAM SSD 256 Gb disk (512 Gb and 1 Tb option) with protective case and shoulder strap
Software	Main features: Loop recording Long recording time Pre/post triggering Event marking Backward or forward playback Adjustable playback speeds AVI Sequence selection / extraction
Carrying case	Overall dimensions: 575 * 470 * 205 mm Weight: 9 kg



VIDEO STORAGE CAPACITY

Maximum loop length in minutes			
Tablet type	256 GB Tablet	512 GB Tablet	1TB Tablet
Resolution 1280 x 1024			
Max Frame rate 225 fps	~15	~30	~60
Frame rate 110 fps	~31	~62	~121
Frame rate 60 fps	~56	~113	~222
Resolution 1024 x 768			
Max Frame rate 360 fps	~15	~30	~60
Frame rate 180 fps	~31	~63	~123
Frame rate 90 fps	~63	~126	~246
Resolution 800 x 600			
Max Frame rate 570 fps	~15	~30	~60
Frame rate 250 fps	~37	~74	~145
Frame rate 125 fps	~74	~149	~291
Resolution 640 x 480			
Max Frame rate 850 fps	~15	~30	~60
Frame rate 425 fps	~34	~68	~133
Frame rate 200 fps	~72	~145	~284
Resolution 500 x 300			
Max Frame rate 1500 fps	~19	~39	~77
Resolution 320 x 240			
Max Frame rate 2500 fps	~23	~46	~91

All specifications are subject to change.



ACCESSORIES



Magnetic base



Trigger box +/- 24V and USB hub



Radio trigger for TroublePad station



**High power lighting
12 000 lumens**



**Long-length hybrid cable
(10, 20, 50 meters)**



**Battery kit for TroublePad
lighting block**



**Wide angle varifocal lens
4,0 - 12,0mm**



512GB and 1TB tablet option



**Tripod photo stand for
TroublePad station**



Quick fixing clamps



**Removable trolley for
TroublePad carrying case**



**Suction cup for TroublePad
station**



OUR REFERENCES

The biggest names in industry **trust Clara Vision solutions.**

MARS

 **Mylan**


Unilever

Schneider
Electric


DELPHARM


SANOFI


WestRock


Volvic

P&G

ORANGINA SUNTORY
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TroublePad

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