

# TroubleShooter LE

## Point & Shoot High Speed Camera



## Applications

### In The Factory

- Reduce Jams
- Speed Up Line Setup and Changeover
- Lower Scrap & Rejected Material Cost

### In The Lab

- New Product Design and Development
- High-speed Microscopy
- Flow Visualisation Research

### In The Field

- Animal Behaviour Research
- Biomechanics Studies
- Crash Testing

### Fast

Record up to 500 frames per second and stop the action.

### Portable

Convenient built in battery pack. Forget about battery belts or power adapters.

### Easy

Capture thousands of images with the push of a button, review them on the built in screen, and save them to a Compact Flash card.

### Connected

Communicate between TroubleShooter LE and your laptop through the built in USB2.0 port



# TroubleShooter LE

## Specifications

Models Available  
Sensor Array  
Shutter  
Record Modes

TroubleShooter LE 250 & TroubleShooter 500 (monochrome and colour)  
CMOS array, 8-bit mono, 24-bit colour  
1x, 2x, 3x, 4x, 5x, 10x and 20x the recording rate

### Manual

Begins recording when the record button is pushed. Continues to record and store images in memory until the stop button is pushed.

### Trigger

Begins recording when the record button is pushed. Continues to record and store images in memory until an external trigger is received. The adjustable trigger position determines how many frames are stored before and after the trigger signal is received. Single step mode plus auto playback at 1, 2, 3, 4, 5, 10, 15, 25, 30, 50, 60, 125, and 250 frames per second, forward and reverse.

Playback Modes

Built in 5" LCD colour digital display.

Display

Operator Controls

Power On/Off, Function Select/ Change, Record, Stop, Download.

I/O Connectors

DC Power, USB2.0 Port, Compact Flash, Trigger-in, Sync-In, Sync-Out, Video-Out.

Trigger Input

Contact closure or standard TTL signal, 3 to 30VDC

Mounts

C-mount lens mount, 1/4-20 tripod mount

Camera Size

190mm W x 120mm H x 60mm D

Camera Weight

0.8Kg with battery pack

## Record Time Matrix

| Resolution | Record Rate<br>(fps) | Standard Memory<br>(512Mb) |              | Enhanced Memory<br>(1Gb) |              |
|------------|----------------------|----------------------------|--------------|--------------------------|--------------|
|            |                      | Total Frames               | Record Times | Total Frames             | Record Times |
| 640 x 480  | 50                   | 2,184                      | 43.7 secs    | 4,368                    | 87.4 secs    |
| 640 x 480  | 125                  | 2,184                      | 17.5 secs    | 4,368                    | 34.9 secs    |
| 640 x 480  | 250                  | 2,184                      | 8.7 secs     | 4,368                    | 17.5 secs    |
| 440 x 330  | 50                   | 4,368                      | 87.4 secs    | 8,736                    | 174.7 secs   |
| 440 x 330  | 125                  | 4,368                      | 34.9 secs    | 8,736                    | 69.8 secs    |
| 440 x 330  | 250                  | 4,368                      | 17.5 secs    | 8,736                    | 34.9 secs    |
| 440 x 330  | 500*                 | 4,368                      | 8.7 secs     | 8,736                    | 17.5 secs    |
| 320 x 240  | 50                   | 8,736                      | 174.7 secs   | 17,472                   | 349.4 secs   |
| 320 x 240  | 125                  | 8,736                      | 69.8 secs    | 17,472                   | 139.8 secs   |
| 320 x 240  | 250                  | 8,736                      | 34.9 secs    | 17,472                   | 69.8 secs    |
| 320 x 240  | 500*                 | 8,736                      | 17.5 secs    | 17,472                   | 34.9 secs    |

\* Available on TroubleShooter LE 500 models only

For More Information  
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