



# meros

high speed  
digital microscope



Ideal for observing droplets during high speed droplet production

## What is the High Speed Digital Microscope?

**Meros High Speed Digital Microscope is designed specifically for microfluidics and is ideal for observing droplets during high speed droplet production. The short exposure time, high resolution imaging and convenient stage greatly simplify microfluidic experiments.**

### High Speed Digital Microscope benefits:

- High quality optics with high resolution imaging for clear visualization of microfluidic experiments.
- High power LED coaxial illumination for minimal exposure time.
- Exposure time down to 0.05 ms for imaging of droplets, particles or cells flowing at kHz rates.
- Minimum exposure of 0.05 ms.
- Capture high frame rate videos of microfluidic events.
- Light brightness adjustment with the option for diffused light with the reversible mirror.
- Long working distance for convenience.
- Zoom function for viewing from the mm to  $\mu\text{m}$  scale.
- Compatible with Meros TCU-100 Temperature Controller for imaging and temperature control of the microfluidic device.
- Can be controlled via our free Flow Control Centre software.
- Reliable and easy to use.

### High Speed Digital Microscope features:

The easy to use microscope stage securely holds a wide range of microfluidic equipment such as microfluidic chips, connectors and the  $\mu\text{Encapsulator 1 Module}$  for reliable viewing.

Extra long working distance enables easy optical access to samples which would normally be difficult to view. Illumination from above leaves the underside of the microfluidic device free for temperature control. Compatible with the Meros TCU-100 Temperature Controller.

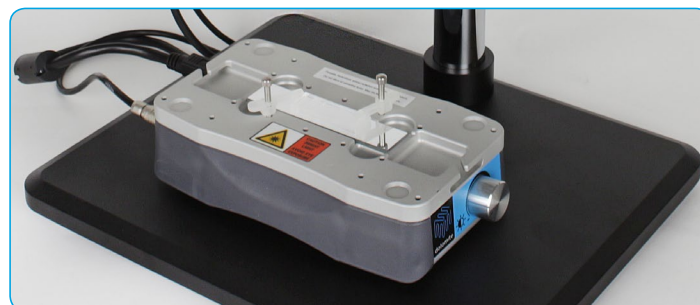
High magnification optics and the zoom lens ensure that micro-scale features can be visualized clearly. The integrated coaxial lighting system offers exceptional brightness for image capture at very low exposure times.

Coupled with the high speed USB3.0 camera, the lighting and optics provide the capability to capture still images or videos of microfluidic material moving at kHz rates.

Flow Control Centre Software is included for observation, image adjustment and image capture.

### List of parts:

Name	Part No.
High Speed Digital Microscope	3200531



Above: Microscope stage

Left: High Speed Digital Microscope

Below: Microscope stage holding the  $\mu\text{Encapsulator 1 Module}$



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