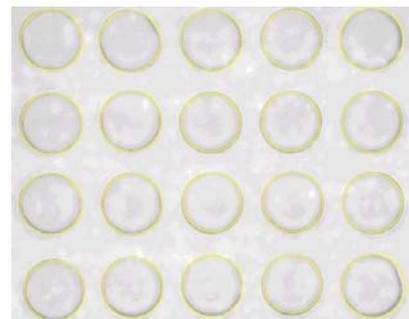# CM-VSU

Optics Systems

Product Description

The CM-VSU-01 (horizontal) subsystem is designed to observe formation and trajectories of droplets in flight (requires a pulsed LED or other pulsed light source for illumination). The CM-VSU-02 (vertical) subsystem is designed for locating fiducials on substrates and for inspection of printed patterns. The vertical subsystem is integrated into the Jetlab® II Printing System.

The Basic Optics subsystems (CM-VSU-03) can be used for both drop and substrate observation, are available in multiple working distances, and are used in the Jetlab® 4 family of Printing Systems.

CM-VSU-01 and CM-VSU-02 subsystems include a USB CCD camera, zoom lens, and fine focus module. CM-VSU-02 (vertical) adds coaxial illumination. The Basic Optics (CM-VSU-03) subsystems use a fixed magnification lens with fine focus.

Ordering Information

CM-VSU-01 Horizontal Optics System: USB CCD camera, zoom lens. Fine focus and right-angle adapter included.

CM-VSU-02 Vertical Optics System: USB CCD camera, zoom lens, fine focus, coaxial illumination.

CM-VSU-03 Basic Optics System: USB CCD camera, lens, fine focus, mounting block. Specify 50, 90, or 172 mm working distance.


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Specifications

CM-VSU-01:	
Field of view, min	0.4 x 0.3 mm
Field of view, max	4.1 x 3.1 mm
Working distance	86 mm

CM-VSU-02:	
Field of view, min	0.7 x 0.5 mm
Field of view, max	8.3 x 6.2 mm
Working distance	86 mm
Voltage coax illumination	110 – 230V

Camera (all subsystems):	
Resolution	640 × 480
Camera interface	USB
Image capture	Bitmap (.bmp) file
Video capture	Windows (.avi) file

Basic Optics:	
CM-VSU-03-50:	
Field of view	2.7 x 2.0 mm
Working distance	51 mm
CM-VSU-03-90:	
Field of view	2.7 x 2.0 mm
Working distance	92 mm
CM-VSU-03-172:	
Field of view	4.0 x 3.0 mm
Working distance	175 mm
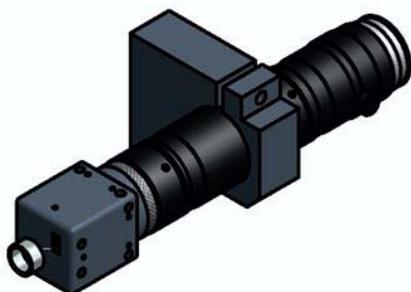
CM-VSU-03-50
Working Distance = 54mm
FOV = 2.7 mm × 2.1mm
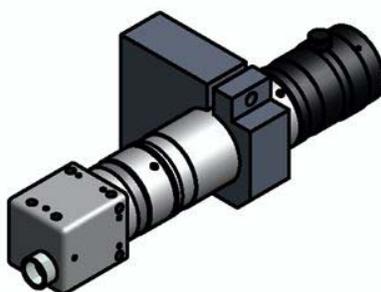
CM-VSU-03-90 (use with TS-01)
Working Distance = 92mm
FOV = 2.7 mm × 2.0mm
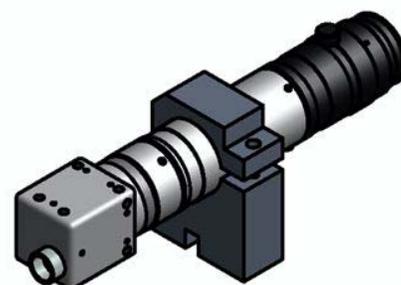
CM-VSU-03-172
Working Distance = 175mm
FOV = 4.0 mm × 3.0mm

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