

Optics Systems

Product Description

The Basic Optics System includes a CCD camera with power supply and a fixed focal length lens with a fine focus module. The Vertical Optics adds coaxial illumination and a zoom lens. The Horizontal Optics adds a zoom lens, a right angle adapter, and a reticle generator. The Horizontal Optics is designed to observe formation and trajectories of droplets in flight, which requires a pulsed LED or other pulsed light source for illumination. The Vertical Optics is designed for locating fiducials on substrates and for inspection of printed patterns. A rack and pinion support and video capture board are available as options.



Features

- 10:1 for zoom lens.
- Working distances up to 150 mm.
- Fine focus.
- Reticle generator.
- Coaxial illumination.
- Integrated into Jetlab[®], Jetlab[®] II, and Jetlab[®] 4.

Available Options

- Rack & pinion support.
- Video capture board.

Ordering Information

| | |
|-----------------|---|
| CM-VS-01 | Horizontal Optics System: CCD camera, power supply, zoom lens, reticle generator, fine focus and right-angle adapter. |
| CM-VS-02 | Vertical Optics System: CCD camera, power supply, zoom lens, coaxial illumination. |
| CM-VS-03 | Basic Optics System: CCD camera, power supply, working distance select 50, 90, or 150 mm. |
| CM-RP-01 | Rack & pinion support. |
| CM-SA-01 | Video capture board |

Addition Information

Links to:

- [CM-VS-01](#) drawing.
- [CM-VS-02](#) drawing.
- [CM-VS-03](#) drawing.

Specifications

| Zoom & Fine Focus: | |
|--------------------|-----------------------|
| Field of view, min | 1.0 x 1.3 mm |
| Field of view, max | 10.2 x 13.6 mm |
| Fine focus range | 15 mm |
| Camera: | |
| Resolution | 570 x 485 lines |
| Output | NTSC or PAL (specify) |
| Video Capture: | |
| Resolution (NTSC) | 640x480 |
| Resolution (PAL) | 768 x 576 |
| Input | BNC x 4 |
| Interface | PCI |
| Operating System | 98/2000/XP |

| Basic Optics: | |
|-------------------------|--------------------------|
| Working distance | Select 50, 90, or 150 mm |
| Horizontal Optics: | |
| Length | 260 mm |
| Height | 326 mm |
| Working distance | 69 mm |
| Vertical Optics: | |
| Working distance | 114 mm |
| Length, Vertical Optics | 345 mm |
| Lamp power (bulb) | 150 W |
| Input voltage | 110 V or 220 V (specify) |
| Input power | 300W |

