Tmetrics C20 Smart 3D Microscope Camera, 1920 × 1080, 60 fps, HDMI

Model Tmetrics C20 · waveqvanta.com/products/tmetrics-c20-3d-microscope-camera

A smart 3D HDMI camera for metallographic or stereo microscopes, used for depth measurement and EDF imaging.



The Tmetrics C20 is a smart 3D camera for use on metallographic or stereo microscopes. It outputs 1920 × 1080 video at 60 fps over HDMI. Example uses include wafer imaging, depth measurement of scratches and laser-drilled holes, and extended-depth-of-field (EDF) observation.

Key features

- Designed for metallographic or stereo microscopes
- 2 MP sensor: 1920 × 1080 with 3.75 µm pixels and an 8 mm diagonal field of view
- 60 fps at 2 MP for smooth live viewing
- HDMI output
- Application examples include depth measurement of metal scratches and laser-drilled holes
- Extended-depth-of-field (EDF) observation, e.g. mosquito flagella under a stereo microscope at 3×

Specifications

Resolution	1920 × 1080 (2 MP)
Pixel Size	3.75 µm × 3.75 µm
Array Diagonal	8 mm
Frame Rate	60 fps @ 2 MP
Data Interface	HDMI

Typical applications

- Wafer inspection (metallographic microscope, 10×)
- Metal scratch depth measurement (metallographic, 20×)
- Laser hole measurement (metallographic, 10×)
- EDF observation of small specimens (stereo, 3×)