

# Digital handheld miniscope

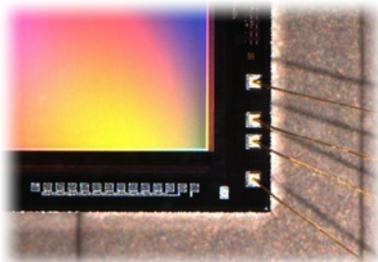
## MCR-628

### User's benefits

- Compact and easy-to-use
- Handheld, USB powered
- Various magnification factors available
- Simple and intuitive software interface

### Applications

- Assembly and quality control
- Product security, traceability and anti-counterfeit
- Industrial inspection for electronics, printing, textile
- Forensic analysis
- Hobby and stamps or coins collections



EOPTIS offers a **handheld** digital miniscope based on a magnifying device with a 1.3 Mpix resolution built-in digital camera and illuminator. A great measurement accuracy is achieved thanks to zero-distortion lenses.

The system includes an integrated illuminator based on green or white LEDs, which allows measurements to be performed on the surface of matte, glossy and transparent materials.

Using this device, it is possible to investigate at a very high resolution, the smallest details not visible by naked eye, even when an expensive lab microscope is not affordable or available.

The device is designed to be interfaced through a **USB** link with a standard PC/laptop. It is delivered with a software application that allows you to:

- **view** your sample live on the monitor of your PC and save images or movies for future use
- perform various analyses on the images, such as **dimensional measurement** with micrometric resolution, **defects inspection** for quality control, authenticity check of the products if an integrated code is printed on it.

Miniscope head mating with the part to be inspected is modular and can be custom shaped. Software features are available on request, also tailored for integration into a factory assembly or manufacturing line.

Ordering information	Magnif. rate	Imaging sensor
MCR-628.P001A	200X	mono
MCR-628.P002A	130X	mono
MCR-628.P008A	60X	color
MCR-628.P009A	30X	color
MCR-628.P010A	20X	color

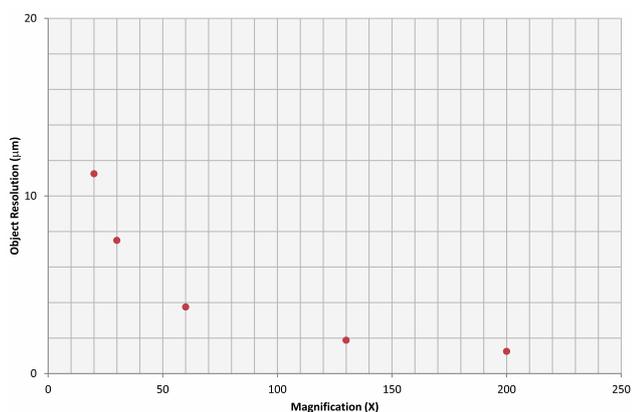
Other configurations are available: check web-site or contact us for non-listed options.



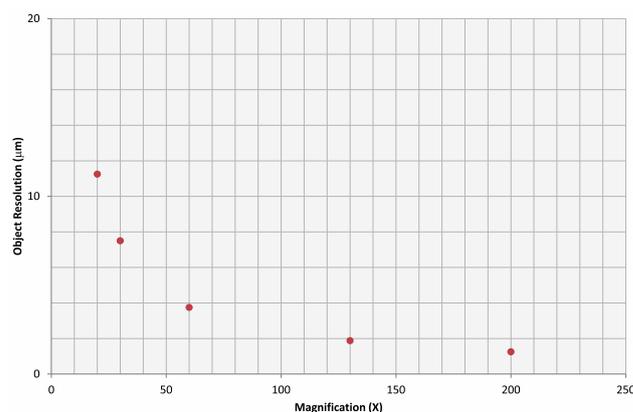
## Technical Specifications

Imaging sensor	Sony EXview HAD CCD mono/colour with Global Shutter	
Resolution and frame rate	1.3 Mpix (1280x960) - 18 FPS / VGA (640x480) - 30 FPS	
Illumination	Integrated green Leds (mono CCD) / white Leds (color CCD)	
Acquisition mode	Continuous or SW triggered	
Working distance	Contact	
Magnification	20x to 200x	
Resolution	3.75 $\mu$ m @60x	(see graph 1)
Field of view	4.8mm x 3.6mm @60x	(see graph 2)
Power	USB self-powered	
Size	60 ( $\varnothing$ ) x 172.0 mm <sup>3</sup>	(see drawing)
Weight	250g	

Resolution at specified magnification rate



Field of view at specified magnification rate



EOPTIS designs and manufactures **innovative vision systems** for special applications and **optoelectronic instruments** for the in-line control of products and monitoring of manufacturing processes. Our customers use EOPTIS' products in the industrial, biomedical, security and food sectors. Our know-how in **electronics, optics, mechanics and analysis algorithms** is used to design products available off-the-shelf or for custom OEM solutions.

