

micro-cameras and vision-systems

by optikron



Optikron's micro-cameras and vision-systems are optimized for applications in which is important to have imaging systems with smallest sizes in combination with highest image quality. In these miniaturized modules are used smallest sensors together with special optics which are designed for getting the best view of your objects. The cameras are very light-sensitive and have an outstanding performance by the optimal combination of electronics, optics and mechanical parts. All micro-cameras can be integrated into complex systems or can be used as stand-alone devices. Additionally to our standard cameras are customized modules and the development and manufacturing of individual vision systems available as well.

Pro Cams

versatile micro-cameras with high performance in standard configurations or with customized components and features

for standard applications and as basis for customized vision-systems



available standard cameras:

S-series (from $\varnothing 2.75$ mm; CMOS color; high sensitivity)
S-series 400x400px CVBS $\varnothing 2.75$ stainless steel, 0° view, HQ lens FOV ~ 120°
S-series 400x400px CVBS $\varnothing 2.75$ stainless steel, 0° view, HQ lens FOV ~ 45°
S-series 400x400px CVBS $\varnothing 3.2$ AL orange, 0° view, HQ lens FOV ~ 120°
S-series 400x400px CVBS $\varnothing 3.2$ AL orange, 0° view, HQ lens FOV ~ 45°
S-series 400x400px USB $\varnothing 2.75$ stainless steel, 0° view, HQ lens FOV ~ 120°
S-series 400x400px USB $\varnothing 2.75$ stainless steel, 0° view, HQ lens FOV ~ 45°
S-series 400x400px USB $\varnothing 3.2$ AL orange, 0° view, HQ lens FOV ~ 120°
S-series 400x400px USB $\varnothing 3.2$ AL orange, 0° view, HQ lens FOV ~ 45°
S-series 400x400px USB, 0° view, basic lens

M-series (from $\varnothing 4.2$ mm; CMOS color)

M-series VGA CVBS, 0° view, HQ lens
M-series VGA CVBS, 90° view, HQ lens
M-series HD 720p USB (USB 2.0 or OTG), 0° view, HQ lens
M-series HD 720p USB (USB 2.0 or OTG), 90° view, HQ lens
M-series HD 1080p USB (USB 2.0 or OTG), 0° view, HQ lens
M-series HD 1080p USB (USB 2.0 or OTG), 90° view, HQ lens

L-series (from 16x16 mm; CMOS color; high sensitivity)

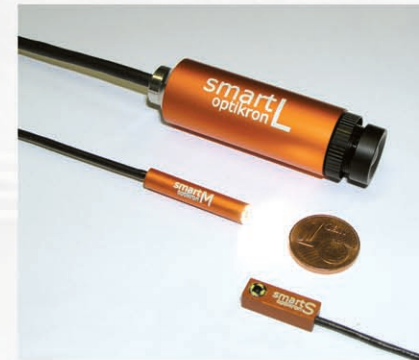
L-series 5MP USB with basic s-mount lens
L-series 5MP Pro USB with snapshot + trigger function with basic s-mount lens
L-series 8MP USB with basic s-mount lens
L-series HDMI with one basic s-mount lens

Additionally our Pro Cams are completely customizable regarding optics, housing, illumination and interfaces. So they can be optimally adjusted for specific applications. For our Pro Cams is available on request a range of different accessories (adaptors, mounts, cable, converter and more).

Smart Cams

selected cameras in pre-defined configurations for higher cost-efficiency and shorter lead times

made for a wide range of standard applications



available standard cameras:

Smart S (5x5x16 mm) 400x400 px CVBS, 90° view, basic lens, LEDs
Smart M ($\varnothing 4,8 \times 25$ mm) HD 720p USB (USB 2.0 or OTG), 0° view, basic lens, LEDs
Smart L ($\varnothing 17 \times 42$ mm) 5 MP USB, 0° view, S-mount, with basic lens

All Smart Cams are available only in these configurations and cannot be changed. For needs of smaller quantities are our Smart Cams mostly available off the shelf with shorter lead times.

Software

All USB cameras are UVC devices and compatible with any OS (Windows® 7 and higher, Linux®, MacOS® and Android®) without needing special drivers. They work with standard software and their integration into customer's applications is simple.

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Mac OS is a trademark of Apple Inc., registered in the U.S. and other countries
Linux is a trademark of The Linux Foundation® in the U.S. and other countries
Android is a trademark of Google Inc., registered in the U.S. and other countries

OPTIcapview

Optikron's viewer software OPTIcapview is optimized for an easy use of our cameras and is as freeware available for our customers.



Customized Modules and Vision-Systems

Optikron is also your partner for developing and manufacturing very specific micro-cameras or complex vision-systems.



From prototyping to serial production we support you with our competencies and technological capabilities.

We always offer to generate sample images in our application-laboratory from particular objects. So different configurations can be tested in advance for finding the optimal camera and the best setup for you. Additionally are test systems available from the most of our cameras, which can be lent for your tests and evaluation.

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