micro-cameras and vision-systems
by optikron

Optikron’s micro-cameras and vision-systems are optimized for applications in which it 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 Ø 2.75 mm; CMOS color; high sensitivity)
S-series 400x400px CVBS Ø 2.75 stainless steel, 0° view, HQ lens FOV ~ 120°
S-series 400x400px CVBS Ø 2.75 stainless steel, 0° view, HQ lens FOV ~ 45°
S-series 400x400px CVBS Ø 3.2 AL orange, 0° view, HQ lens FOV ~ 120°
S-series 400x400px CVBS Ø 3.2 AL orange, 0° view, HQ lens FOV ~ 45°
S-series 400x400px USB Ø 2.75 stainless steel, 0° view, HQ lens FOV ~ 120°
S-series 400x400px USB Ø 2.75 stainless steel, 0° view, HQ lens FOV ~ 45°
S-series 400x400px USB Ø 3.2 AL orange, 0° view, HQ lens FOV ~ 120°
S-series 400x400px USB Ø 3.2 AL orange, 0° view, HQ lens FOV ~ 45°

M-series (from Ø 4.2 mm; CMOS color)
M-series VGA CVBS, 0° view, HQ lens or s-mount lens
M-series VGA USB, 0° view, HQ lens
M-series VGA USB, 0° view, basic lens, with integrated LEDs
M-series HD 720p USB (USB 2.0 or OTG), 0° view, HQ lens
M-series HD 720p USB (USB 2.0 or OTG), 30° 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
M-series GS VGA b/w (global shutter) USB, 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. 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 5 (6x5x16 mm) 400x400 px CVBS, 90° view, basic lens, LEDs
Smart M (Ø 4,8x25 mm) HD 720p USB, 0° view, basic lens, LEDs
Smart L (Ø 17x42 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 available for free 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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