

High-speed camera for on- and off board applications.
Available in three speed grades S1, S3 and S4.

- Perfect interplay with M=LIGHT LED lights
- One camera for on- and offboard applications
- Fast frame rates at high resolution
- Compact and lightweight
- Excellent light sensitivity



		RESOLUTION [PIXELS]	FRAME RATE [FPS]	RECORDING TIME (9 GB)
MAXIMUM RESOLUTION	S4	2016 X 2016	1102	1.40 s
		2016 X 1536	1443	1.40 s
	S3	1920 X 1440	1603	1.41 s
		1920 X 1080	2128	1.42 s
	S1	1440 X 1440	2032	1.49 s
		1296 X 1024	3086	1.53 s
		1296 X 720	4346	1.54 s
		1008 X 952	4009	1.63 s
		864 X 848	5010	1.71 s
		528 X 528	10782	2.08 s

Figure 1: Resolution examples and speed grade comparison S1, S3, S4

TECHNICAL SPECIFICATIONS

Max. resolution	S4: 2,016 x 2,016 pixels S3: 1,920 x 1,440 pixels S1: 1,296 x 1,024 pixels
Sensor size / diagonal	S4: 22.18 x 22.18 mm2 / 31.36 mm S3: 21.1 x 15.8 mm2 / 26.4 mm S1: 14.26 x 11.26 mm2 / 18.17 mm
Pixel size	11 x 11 µm
Shutter mode	Global shutter
Sensitivity (ISO)	160...6,400 (color)

Spectral range	290...1,100 nm
Exposure time	1.5 µs...40 ms
Dynamic range	12 Bit
Region of interest	24 x 4 pixel steps (centered)
Camera memory	9 GB
Signal types	RS-485, TTL, contact closure
Output signals	Exposure out / status armed
Multi camera sync	Sync In/Out (master/slave), PLL
Data interface	Gigabit Ethernet
Time stamp	In image (accuracy 1 µs)
Time code input	IRIG-B unmodulated
Shock resistance	150 g > 11 ms (in all axes)
Operating temperature	0°...40° C
Power supply	15...48 VDC
Power consumption	27 W
Camera connector	LEMO (18-pin), EEG.2B.318.CLN
Lens mounts	C-mount and F-mount
Weight	0.985 kg
Dimensions	85 mm x 85 mm x 102.5 mm

Scope of supply

- M=CAM high-speed camera (S1 / S3 / S4)
- Power supply
- Ethernet cable, 10m
- System cable, 3m (power, GigE, trigger, sync)
- Control software

Required for operation

- Camera lenses (onboard / offboard)
- Camera lens cage for onboard use

Options

- Camera tripod
- System cables (power, GigE, trigger, sync)