

Basler racer 2

Fast line scan cameras with up to 16k resolution

Basler racer 2 line scan cameras have resolutions of up to 16k and a line rate of up to 200 kHz. They are especially suitable for quality assurance in battery production, for example.



Various resolutions

Available in 2k, 4k, 6k, 8k and 16k resolutions



Latest CMOS sensors

Best images thanks to latest line scan sensors from Gpixel



Line rates up to 200 kHz

For applications that require high performance

More information: baslerweb.com/racer2



racer 2 S

racer 2 L

Product Group Specifications

Interface	GigE, 5GigE, CoaXPress 2.0 (CXP-12)	CoaXPress 2.0 (CXP-12)
Housing Size [L x W x H]	GigE, 5GigE: 48.9 mm x 29 mm x 29 mm CoaXPress 2.0: 48.9 mm x 29 mm x 29 mm	36 mm x 80 mm x 90 mm
Housing Temperature during operation	-10 °C – 60 °C	0 °C – 50 °C
Typical Weight	< 105 g	650 g
Lens Mount	C-mount	M72 x 0.75
Power Supply	12–24 VDC	24 VDC
Digital I/O	1 opto-coupled input line 2 general purpose I/O (GPIO) lines	3 differential general purpose I/O (GPIO) lines
Synchronization	Via hardware trigger, via software trigger, or free-run	
Exposure Control	Via hardware trigger or programmable via the camera API	
Conformity	CE, CoaXPress 2.0, FCC, GenICam, KC, RoHS, UKCA, UL Listed, EAC, GigE Vision, IP30	CE, CoaXPress 2.0, FCC, GenICam, KC, RoHS, UKCA
Driver	pylon Software Suite or 3rd party Software	
Operating System	Windows, Linux	

Camera Model	Sensor	Resolution [HxV pixels]	Resolution [Pixels]	Sensor Type	Shutter	Line Rate [kHz]	Pixel Size [μm²]	Sensor Format [mm]
racer 2 L								
★ r2L8192-200cm	GL7008	8192 x 1	8k	CMOS	Global	200	7.0 x 7.0	57.3
★ r2L16384-120cm	GL3516	16384 x 1	16k	CMOS	Global	120	3.5 x 3.5	57.3
racer 2 S CXP-12								
★ r2L 2048-172cm	GL3504	2048 x 4	2k	CMOS	Global	172	7.0 x 7.0	14.3
★ r2L 2048-62cc	GL3504	2048 x 4	2k	CMOS	Global	62	7.0 x 7.0	14.3
★ r2L 4096-84cm	GL3504	4096 x 2	4k	CMOS	Global	84	3.5 x 3.5	14.3
★ r2L 4096-42cc	GL3504	4096 x 2	4k	CMOS	Global	42	3.5 x 3.5	14.3
racer 2 S 5GigE								
★ r2L 2048-172g5m	GL3504	2048 x 4	2k	CMOS	Global	172	7.0 x 7.0	14.3
★ r2L 2048-62g5c	GL3504	2048 x 4	2k	CMOS	Global	62	7.0 x 7.0	14.3
★ r2L 4096-84g5m	GL3504	4096 x 2	4k	CMOS	Global	84	3.5 x 3.5	14.3
★ r2L 4096-42g5c	GL3504	4096 x 2	4k	CMOS	Global	42	3.5 x 3.5	14.3
racer 2 S GigE								
★ r2L 2048-58gm	GL3504	2048 x 4	2k	CMOS	Global	58	7.0 x 7.0	14.3
★ r2L 2048-29gc	GL3504	2048 x 4	2k	CMOS	Global	29	7.0 x 7.0	14.3
★ r2L 4096-29gm	GL3504	4096 x 2	4k	CMOS	Global	29	3.5 x 3.5	14.3
★ r2L 4096-14gc	GL3504	4096 x 2	4k	CMOS	Global	14	3.5 x 3.5	14.3