

Basler racer

Exceptional line scan performance - low space requirement



Highlights

- Superior speed, reliability and image quality combined with low space requirement and highly attractive pricing
- CMOS sensors with 2k to 12k resolution and up to 80 kHz line rate
- Perfect fit for a wide range of applications — including multi-camera systems



For more information please contact:

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RACER

Product Group Specifications	
Interface	GigE, Camera Link
Housing Size [L × W × H]	GigE: 36.2 mm × 56 mm × 62 mm, CL: 33.8 mm × 56 mm × 62 mm
Housing Temperature during operation	0 °C - 60 °C
Typical Weight	GigE: ca. 240 g, CL: ca. 210 g
Lens Mount	C-mount, F-mount, M42 × 1, M42 × 0.75, M58 × 0.75
Power Supply	12-24 VDC (±5%), PoCL ¹
Digital I/O	GigE: 3 in/2 out, CL: via camera control signals (max. 4)
Synchronization	Via hardware trigger, via software trigger, or free-run
Exposure Control	Trigger width or timed
Conformity	CE, RoHS, GenICam, IP30, UL, FCC, GigE Vision/Camera Link, KC, EAC
Driver	Basler pylon Camera Software Suite or 3rd party Software
Operating System	Windows, Linux, macOS

¹raL2048-80km and raL4096-80km only.

CAMERA MODEL	SENSOR	RESOLUTION [H×V PIXELS]	RESOLUTION [PIXELS]	SENSOR TYPE	SHUTTER	LINE RATE [kHz]	PIXEL SIZE [µm ²]	SENSOR SIZE [mm ²]
racer GigE								
raL2048-48gm	DR-2k-7	2048 × 1	2k	CMOS	Global	51	7.0 × 7.0	14.3
raL4096-24gm	DR-4k-7	4096 × 1	4k	CMOS	Global	26	7.0 × 7.0	28.7
raL6144-16gm	DR-6k-7	6144 × 1	6k	CMOS	Global	17	7.0 × 7.0	43.0
raL8192-12gm	DR-8k-3.5	8192 × 1	8k	CMOS	Global	12	3.5 × 3.5	28.7
raL12288-8gm	DR-12k-3.5	12288 × 1	12k	CMOS	Global	8	3.5 × 3.5	43.0
racer Camera Link								
raL2048-80km	DR-2k-7	2048 × 1	2k	CMOS	Global	80	7.0 × 7.0	14.3
raL4096-80km	DR-4k-7	4096 × 1	4k	CMOS	Global	80	7.0 × 7.0	28.7
raL6144-80km	DR-6k-7	6144 × 1	6k	CMOS	Global	80	7.0 × 7.0	43.0
raL8192-80km	DR-8k-3.5	8192 × 1	8k	CMOS	Global	80	3.5 × 3.5	28.7
raL12288-66km	DR-12k-3.5	12288 × 1	12k	CMOS	Global	66	3.5 × 3.5	43.0