OPTOCRAFT
OPTICAL METROLOGY

SHS**Cam** – standard sensor head overview

Type	AR-S	AR2	HR2	SHR-S	SHR	SHR4	UHR2	XHR
Detection area / mm²	4.8 x 3.6	4.8 x 3.6	11.2 x 7.0	10.3 x 8.5	11.8 x 8.9	10.3 x 10.3	15.1 x 15.1	36 × 24
Lateral resolution(s) / microlenses	32 x 24 37 x 28	43 x 32 71 x 53	85 x 53	69 x 57	78 x 59 90 x 68	79x79 117 x 117	101 x 101 116 x 116	240 × 160
Greyscales / Bit	12	12	12	8	12	12	12	12
Camera Bus	GigE	GigE	GigE/USB3.0	CameraLink	GigE	GigE	GigE	GigE
Sensor head dimensions (L x W x H) / mm³	64 x 36 x 36	64 x 36 x 36	65 x 29 x 29	55 x 60 x 60	80 x 51 x 55	65 x 29 x 29	60 x 50 x 50	50.5 x 70 x 71
Weight / kg	0.1	0.1	0.1	0.3	0.3	0.1	0.2	0.33
Evaluation Rate (typical) / Hz	50	30	18	30 Full Frame, >1000 on central ROI*	7	3	6	~1

* For evaluation with DLL-based software

- Default optimization wavelength for standard sensors is 635nm. Others from 405 – 1064nm are available.
- Recommended wavelength range for high precision measurements is optimization wavelength +/- 10%. Usable wavelength range is 405 – 1064nm.

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