

# Technical data CamTest

	CamTest R&D	CamTest MTF	CamTest Focus	CamTest Chart	CamTest Spectral	CamTest Smart
Field of view	Up to $\pm 90^\circ$ (up to $\pm 110^\circ$ after individual clarification)	Up to $\pm 70^\circ$ diagonal field of view (up to $\pm 90^\circ$ after individual clarification)	Up to $\pm 70^\circ$ diagonal field of view (up to $\pm 90^\circ$ after individual clarification)	Up to $\pm 35^\circ$ diagonal field of view (up to $\pm 50^\circ$ after individual clarification)	Up to $\pm 70^\circ$ diagonal field of view (up to $\pm 80^\circ$ after individual clarification)	Depending on the instrument configuration and up to 3 possible integrated measuring chambers (MTF, Focus, Chart or Spectral)
Standard illumination wavelength (others on request)	White LED with PE-Filter RGB LED: 625 nm/520 nm/470 nm 940 nm & 850 nm	White LED colour temperature 6500 K	White LED colour temperature 6500 K	Backlit LED green narrow spectrum	Adjustable spectrum 420 nm ... 780 nm	
Sample EFL (Effective Focal Length)	1.8 mm ... 16 mm <sup>1)</sup>	1 mm ... 12 mm <sup>1)</sup>	1.8 mm ... 12 mm <sup>1)</sup>	1 mm ... 12 mm <sup>1)</sup>	1 mm ... 12 mm <sup>1)</sup>	
Object distance	0.5 m to infinity	Infinity	1000 mm ... infinity	Finite / infinite	1000 mm ... infinity	
Typ. measurement time	2 s ... 1 min (Depending on the number of different parameters to be measured)	< 2 s	< 15 s	< 5 s	< 5 s particle & defect pixel, < 5 s shading, < 10 s OECF, < 15 s spectral response	
Sample diameter / Free aperture	n.a.	n.a. / < 5 mm	n.a. / < 5 mm	n.a. / < 5 mm	2 mm ... 20 mm / n.a.	
Camera interface	Software Development Kit provided enabling to connect customer camera with own framegrabber to all standard interfaces (either MIPI, analog or directly to e. g. USB, FireWire, CamLink, GigE).					

<sup>1)</sup> EFL outside the specified ranges possible, after testing the lens characteristics

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Type	Stand alone					
Dimensions (h x w x d)	2,000 mm x 800 mm x 1,500 mm	2,150 mm x 1,120 mm x 875 mm				2,159 mm x 1,740 mm x 1,226 mm
Weight (approx.)	300 kg	Up to 350 kg				750 kg
Power consumption	max. 1300 W	typ. 100 W ... 500 W				300 W ... 1000 W
Voltage	100 ... 130 VAC or 220 ... 230 VAC					
Compressed air	5 bar ... 7 bar (optional for sample fixation)					
External Communication Interface	TCP - IP	TCP - IP OPC - UA				