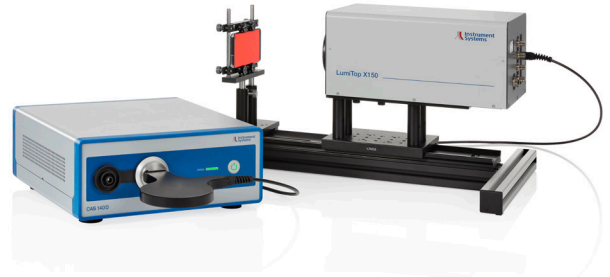


# LumiTop X150

## Spectrally enhanced imaging colorimeter

### Key features at a glance

- ▲ Proven concept of LumiTop – spectrally enhanced imaging colorimeter
- ▲ Combination of 2D-RGB sensor with spectroradiometer and flicker sensor
- ▲ Ultra-high resolution camera with 151 Mpix to provide single pixel evaluation for state-of-the-art DUTs



### \\ TECHNICAL SPECIFICATIONS

LumiTop X150 imaging colorimeter	
<b>Measurement quantities</b>	
2D	Luminance, color
Spot	Spectrum, luminance, color, flicker
<b>Camera specifications</b>	
Resolution	~14192 x 10640 pixels (151 megapixels)
Pixel size	3.76 $\mu\text{m}$ x 3.76 $\mu\text{m}$
Dark noise	4 e-
Dynamic range	80.8 dB
Size CMOS sensor	66.7 mm diagonal
<b>General specifications</b>	
Interface CAS 140D	USB 2.0, PCIe, Ethernet
Interface camera	Quad CoaXPress (4 x 6,25 Gbit/s)
Operating system	Windows 7 / 10 (64 bit)
Dimensions (L x W x H)	approx. 365 mm x 230 mm x 160 mm
Weight <sup>1)</sup>	approx. 11 kg
Power supply	24 V
Operating temperature range	15 - 35 °C
<b>Additional features</b>	
Pixel shifter	
Motorized focus	

## \\ TECHNICAL SPECIFICATIONS

Available lenses					
Number	Focal length	FOV size	FOV diagonal	CAS spot dia.	Working distance
1 <sup>2)</sup>	100 mm	max. 668 mm x 500 mm	32.8"	40 mm	~ 1100 mm
		min. 267 mm x 200 mm	13.1"	16 mm	~ 600 mm
2	92 mm	max. 334 mm x 250 mm	16.4"	20 mm	~ 630 mm
		min. 205 mm x 154 mm	10.1"	12.3 mm	~ 400 mm
3	104 mm	max. 205 mm x 154 mm	10.1"	12.3 mm	~ 460 mm
		min. 141 mm x 105 mm	6.9"	8.4 mm	~ 340 mm
4	91 mm	max. 127 mm x 95 mm	6.6"	7.6 mm	TBD
		min. 92 mm x 69 mm	4.5"	5.5 mm	TBD
5	91 mm	max. 85 mm x 64 mm	4.2"	5.1 mm	TBD
		min. 70 mm x 52 mm	3.4"	4.2 mm	TBD
6	89 mm	max. 59 mm x 44 mm	2.9"	3.5 mm	TBD
		min. 49 mm x 36 mm	2.4"	2.9 mm	TBD
7	92 mm	max. 30 mm x 22 mm	1.5"	1.8 mm	~ 110 mm
		min. 24 mm x 18 mm	1.2"	1.4 mm	~ 100 mm

<sup>1)</sup> Without CAS

<sup>2)</sup> Lens #1 can be used at larger distances as well to obtain larger fields of view.