面板量測儀器
Display Measurement

Instrument Systems
light measurement

DTS系列 面板量測儀器
DTS Display Measurement

Technical specifications for display measurement

Model		DTS140-131		DTS140-133		DTS140-231	DTS140-233	DTS140-235
Spectral range		360 - 830 nm		380 - 1040 nm		360 - 830 nm	380 - 1040 nm	380-1040 nm
Spectral resolution		2.2 nm		3.0 nm		2.2 nm	3.0 nm	7.0 nm
Data point interval		0.5 nm		0.65 nm		0.5 nm	0.65 nm	0.65 nm
TOP 200 Telescopic Optical Probe								
Lens type		60 mm		60 mm		HRL 90	HRL 90	HRL 90
Lens veiling glare		1%		1%		0.1 %	0.1 %	0.1 %
Working distance		18 cm	50 cm	18 cm	50 cm	23 cm	23 cm	23 cm
Measurement spot sizes	Aperture 1	0.15 mm	9.6 mm	0.15 mm	9.6 mm	0.075 mm	0.075 mm	0.075 mm
	Aperture 2	0.3 mm	1.7 mm	0.3 mm	1.7 mm	0.15 mm	0.15 mm	0.15 mm
	Aperture 3	0.6 mm	3.5 mm	0.6 mm	3.5 mm	0.3 mm	0.3 mm	0.3 mm
	Aperture 4	1.2 mm	6.9 mm	1.2 mm	6.9 mm	0.6 mm	0.6 mm	0.6 mm
Measurement sensitivity range	Aperture 1	0.2 - 1·10E9 cd/m²		0.1 - 1·10E9 cd/m²		0.6 - 4·10E9 cd/m²	0.4 - 3·10E9 cd/m²	0.1 - 1·10E9 cd/m²
	Aperture 2	0.06 - 4·10E8 cd/m²		0.04 - 3·10E8 cd/m²		0.2 - 1·10E9 cd/m²	0.1 – 1·10E9 cd/m²	0.03 – 3·10E8 cd/m²
	Aperture 3	0.02 - 1·10E8 cd/m²		0.01 - 1·10E8 cd/m²		0.06 – 4·10E8 cd/m²	0.04 – 3·10E8 cd/m²	0.01 – 1·10E8 cd/m²
	Aperture 4	0.006 - 4·10E7 cd/m²		0.004 – 3·10E7 cd/m²		0.02 – 1·10E8 cd/m²	0.01 – 1·10E8 cd/m²	0.003 – 3·10E7 cd/m²
Measurement uncertainty								
Luminance		± 3 %						
Radiance		± 4 %						
Color coordinates (x,y)		± 0.0015						
Dominant wavelength		± 0.5 nm						
Polarization sensitivity		< 1 %						
DTS140 models (complete for display measurements)								
DTS140-131	360 - 830 nm; 60 mm lens; working distance 18 cm to infinite							
DTS140-133	380 - 1040 nm; 60 mm lens; working distance 18 cm to infinite							
DTS140-231	360 - 830 nm; HRL 90 lens; working distance 23 cm fixed							
DTS140-233	380 - 1040 nm; HRL 90 lens; working distance 23 cm fixed							
DTS140-235	Specifically for NVIS measurements according to MIL-L-85762A and MIL-STD-3009							

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