

Meter System

Lighting Passport	UPRtek MK350S	UPRtek MK350N	Minolta CL-500	Mightex HRS-VIS *	Orb Opt SP100 *	Minolta T10MA	Amp LM200LED	Tektronix J16
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Measurements

Spectral Measure	Y	Y	Y	Y	Y	Y	N	N	N
Wavelength Range nm	380-780	360-750	360-750	360-780	390-780	380-780	CIE Photopic	CIE Photopic	CIE Photopic
Illuminance Range (lux)	100-50,000	70-70,000	70-70,000	0.1-100,000	n/a	n/a	.01-299,000	1-200,000	.1-199,900
Irradiance w/cm2	N	N	N	N	Y	Y	N	N	Y
Luminance measure	N	N	N	N	Y	Y	N	N	Y
Fc Reading	Y	Y	N	N	N	N	Y	Y	Y
Lux Reading	Y	Y	Y	Y	N	N	Y	Y	Y
CCT Measure	Y	Y	Y	Y	Y	Y	N	N	N
Dominant Wavelength	Y	Y	N	N	N	Y	N	N	N
Peak Wavelength	Y	Y	Y	N	N	Y	N	N	N
Background subtraction	Y	Y	Y	N	Y	N	N	N	N

Calculations

Purity	Y	Y	Y	N	Y	N	N	N	N
CRI R1-R15	Y	Y	Y	Y	Y	Y	N	N	N
CQS Q1-Q15	Y	N	N	N	N	N	N	N	N
CIE 1931 x,y	Y	Y	N	N	N	Y	N	N	N
CIE 1976 u',v'	Y	Y	N	N	N	N	N	N	N
ANSI Bin	Y	Y	N	Y*	N	N	N	N	N
IEC-SDCM (McAdam Ellipse)	Y	Y	N	Y*	N	N	N	N	N
Duv	Y	Y	N	N	N	N	N	N	N
Flicker	N	N	N	N	N	N	N	N	N

Features

Portable	Y	Y	Y	Y	N	N	Y	Y	Y
Integrated Display	Graphic Color**	Graphic Color**	Graphic Color	Mono LCD	Graphic Color**	Graphic Color**	Mono LCD	Mono LCD	Mono LED
iOS Compatible	Y*	N	N	N	N	N	N	N	N
Android Compatible	Y*	N	N	N	N	N	N	N	N
Use with multiple platforms	Y	N	N	N	N	N	N	N	N
Remote sensor position	Y	N	N	N	Y	N	Y	Y	Y
Calibrated for LED	Y	Y	Y	Y	Y	Y	N	Y	N
Compare 2 sources	Y	Y	N	Y*	N	N	Y	N	N
Multiple Readings (>2)	Y	N	N	Y*	N	N	N	N	N
Continuous Measure	Y	N	N	Y	Y	N	Y	Y	Y
Add Product Image	Y*	Y*	N	N	N	N	N	N	N
Add Product Information	Y*	Y*	N	N	N	N	N	N	N
Light Transmission Test Utility	Y*	N	N	N	N	N	N	N	N
Email device data sharing	Y*	N	N	N	N	N	N	N	N
Open platform for custom app	Y*	N	N	N	N	N	N	N	N
Direct device file download	Y	Y	N	Y	Y	Y	Y	N	N
PC Control of sensor device	N	Y	N	N	Y	Y	N	N	N
Report Generation	Y*	Y*	N	N	N	N	N	N	N

Accuracy

Illuminance accuracy +/- Reading	3%	5%	5%	2%	n/a	2%	2%	3%	2%
Wavelength accuracy +/- (nm)	0.5	0.5	0.5	0.3	0.3	0.5	n/a	n/a	n/a
x,y accuracy +/-	0.002	0.0025	0.0025	0.0015	0.002	0.002	n/a	n/a	n/a
Integration time range	6ms - 16s	8ms -10s	8ms -10s	200ms - 27s	.1ms - 65s	2ms - 60s	200ms - 27s	n/a	n/a

Data

Data Transfer	email	SD Card	SD Card	USB Connect	USB Connect	USB Connect	USB Connect	n/a	n/a
Data Format	.csv	.xls	.xls	.xls	.xls	.csv	.xls	n/a	n/a

Lumenique Ratings (1 down to 5)

Ease of Use	1	1	1	2	3	2	1	1	2
Display Quality	1**	1	1	4	3*	2*	1	1	3
Mobility	1	3	3	2	4	4	1	1	2
Flexibility	1	1	3	2	3	3	3	4	3
Feel and Quality	1	1	1	1	2	1	1	3	2
Fit with Designer Needs	1	1	1	1	5	5	3	3	5
Fit with Lab Needs	2	2	5	5	2	1	3	5	2
Software Interface	2	3	n/a	n/a	3	1	4	n/a	n/a
Startup Simplicity	1	2	2	2	3	2	1	1	2
Average of Ratings	1.3	1.7	2.1	2.4	3.1	2.4	2.0	2.4	2.6

Approx Cost Involved with accessories and software to realize full functionality \$USD

1,500 -3,000	3,100 -3,600	1,500	>9000	2,100-3,200	>9000	1,500	100	700
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*Function (s) only in software only - no direct meter output

**Display is function of iOS, Android, or PC device connected