

## X1 1 Optometer Specifications

Operating Modes	CW (continuous measurement); Color x/y (color temperature, x,y chromaticity coordinates, Y) Color u/v (color temperature, u,v chromaticity coordinates, Y), USB
Parameter Setting	3 button operation; menu driven; setting with permanent storage in eeprom
Input Ranges	4 channels, each with 6 ranges (-LS: 2.0.00 $\mu$ A to 200.0 pA; -HS: 200.0 $\mu$ A to 2.000 nA); automatic range switching
Display	LCD graphic display (97 x 32 pixel); 4 rows each 14 characters; LED background illumination with on/off switch
Measurement Method	Sampling A/D converter (xxx $\mu$ s sample rate). Average reading processing time (integration) from 20 ms to 1 sec
Detector Head Connection	Detector heads with -4 type connector (9 pin MSDM9 socket, 4 signal inputs)
Manual Calibration	Input through USB interface; permanent storage in eeprom
Interface	USB Spec. 1.1 (HID device)
Operating Temperature	5 to 40 °C (41 to 104°F) - storage: 0 to 50°C
Power	2 x battery, size AA (2.2 to 3.2 V); current consumption: 6 mA + 30 mA for display illumination; USB powered in remote control mode
Dimensions/Weight	145 x 63 x 30 mm / 150 g (5.7 x 2.5 x 1.2 in / 0.33 lb)

X1 1 =

### ACCESSORIES:

X1Z-01 USB interface cable (2 m) with terminal communication software and USB DLL

BHO-04 Carrying case for X1 with one 37-type and one LDM-9901 detector

BHO-05 Carrying case for X1 with RCH-0xx and RCH-1xx type detectors

BHO-06 Carrying case for X1 with one 45-type detector



**X1 1 Optometer**

## Detector Listing

P-9710 (-2) & X1-1 (-4) Radiometric Irradiance Detectors												
reactor wave-length (nm)	dectcor model no.	spectral function ( nm )		cosine diffuse r dia. (mm)	typ. max. resolution		typ. max. value*		dim. (mm)		\$ Price Connector Type	
					P-9710	X1-1 HS	P-9710	X1-1 HS	dia.	height	-2	-4
419	SNERW-3706-2 SNERW-3706-4	400 to 470	BLUE	11	50 pW/cm <sup>2</sup>	500 pW/cm <sup>2</sup>	500 mW/cm <sup>2</sup>	50 mW/cm <sup>2</sup>	37	50	679	632
575	SNERW-3703-2 SNERW-3703-4	400 to 800	VIS	11	50 pW/cm <sup>2</sup>	500 pW/cm <sup>2</sup>	500 mW/cm <sup>2</sup>	50 mW/cm <sup>2</sup>	37	50	978	930
350	SNEUV-3701-2 SNEUV-3701-4	315 to 400	UV-A	13	1.7 nW/cm <sup>2</sup>	17 nW/cm <sup>2</sup>	1.7 W/cm <sup>2</sup>	170 mW/cm <sup>2</sup>	37	32	813	766
300	SNEUV-3702-2 SNEUV-3702-4	280 to 315	UV-B	11	25 nW/cm <sup>2</sup>	250 nW/cm <sup>2</sup>	10 W/cm <sup>2</sup>	1 W/cm <sup>2</sup>	37	50	1030	983
253.7	SNEUV-3718-2 SNEUV-3718-4	250 to 280	UV-C	11	5 nW/cm <sup>2</sup>	50 nW/cm <sup>2</sup>	2.5 W/cm <sup>2</sup>	250 mW/cm <sup>2</sup>	37	32	797	750

\*values calculated based on current measurement capability and may be limited by operating temperature, power density and other factors

