

UNIVERSAL LIGHTPROBE™ SENSOR SENSITIVITY SELECTION

Optomistic Products offers a selection of Universal LightProbes for testing various intensity LEDs. Sensor selection depends on several factors, including:

- The size of LED under test
- The brightness of the LED under test (check the manufacturers data sheet for intensity in mcd)
- The type of Universal LightProbe Fiber-optic Probe being used for the test
- The air-gap between the fiber-optic probe tip and the LED under test
- Whether the LED is being tested through translucent material of unknown transmission characteristics.

UNIVERSAL LIGHTPROBE SENSOR TYPE	UNIVERSAL LIGHTPROBE FIBER-OPTIC PROBE TYPE	CIRCUIT-BOARD TEST		FINISHED-PRODUCT TEST
		SURFACE-MOUNT CHIP LEDs	SURFACE-MOUNT PLCC LEDs	THROUGH-HOLE T-1 3/4 (5MM)
Penta, Spectra or Unicolor Sensor (ULP: PCI/V, WBI/V, SCI/V)	Small-aperture probe (3mm air-gap)	1 mcd to 3000 mcd	1 mcd to 3000 mcd	10 mcd to 20,000 mcd
	Wide-aperture probe (Contacting tip or 1mm air-gap)	0.1 mcd to 200 mcd	0.1 mcd to 275 mcd	3 mcd to 6,000 mcd
Penta, Spectra or Unicolor Low-Sensitivity Sensor (LS) (ULP: PCI/V, WBI/V, SCI/V)	Small-aperture probe (3mm air-gap)	5 mcd to 10,000 mcd	5 mcd to 10,000 mcd	40 mcd to 80,000 mcd
	Wide-aperture probe (Contacting tip or 1mm air-gap)	0.3 mcd to 800 mcd	0.5 mcd to 1,000 mcd	10 mcd to 25,000 mcd
Penta, Spectra or Unicolor Very-Low-Sensitivity Sensor (VLS) ULP: PCI/V, WBI/V, SCI/V	Small-aperture probe (3mm air-gap)	20 mcd to 45,000mcd	20 mcd to 45,000 mcd	125 mcd to 315,000 mcd
	Wide-aperture probe (Contacting tip or 1mm air-gap)	2 mcd to 3,200 mcd	2 mcd to 4,000 mcd	40 mcd to 95,000 mcd
Penta High-Sensitivity Sensor (HS) (ULP PCI/V)	Wide-aperture probe (Contacting tip or 1mm air-gap)	N/A	N/A	1 mcd to 15 mcd (1.0 to 4 volts)
Spectra USB or ASCII Sensor (ULP Spectra USB)	Small-aperture probe (3mm air-gap)	0.5 mcd to 3,400 mcd	0.5 mcd to 3,000 mcd	3 mcd to 18,300 mcd
	Wide-aperture probe (Contacting tip or 1mm air-gap)	0.03 mcd to 200 mcd	0.04 mcd to 260 mcd	0.5 mcd to 3,000 mcd
Spectra USB Low -Sensitivity Sensor (LS) (ULP Spectra USB)	Small-aperture probe (3mm air-gap)	2 mcd to 13,600 mcd	2 mcd to 12,000 mcd	12 mcd to 73,200 mcd
	Wide-aperture probe (Contacting tip or 1mm air-gap)	0.12 mcd to 800 mcd	0.2 mcd to 1,000 mcd	2 mcd to 12,000 mcd
Spectra USB Very-Low-Sensitivity Sensor (VLS) (ULP Spectra USB)	Small-aperture probe (3mm air-gap)	8 mcd to 54,400 mcd	8 mcd to 48,000 mcd	48 mcd to 293,000 mcd
	Wide-aperture probe (Contacting tip or 1mm air-gap)	0.5 mcd to 3,200 mcd	1 mcd to 4,000 mcd	8 mcd to 48,000 mcd
Blinx Digital Sensor (ULP BLINX) (5 Hz. Max. LED blink rate)	Wide-aperture probe (Contacting tip or 1mm air-gap)	0.125 mcd min.	0.130 mcd min.	1.5 mcd min. (0.5 mcd min. RJ45 T1 LEDs)
Blinx Digital High-Sensitivity Sensor (HS) (ULP BLINX) (5 Hz. Max. LED blink rate)	Wide-aperture probe (Contacting tip or 1mm air-gap)	0.03 mcd min.	0.03 mcd min.	0.46 mcd min. (0.15 mcd min. RJ45 T1 LEDs)
Ultra-High Sensitivity Sensor (UHS) (ULP UHS) Does not detect color	Wide-aperture probe (Contacting tip)	0.01 mcd min.	0.01 mcd min.	0.25mcd min.