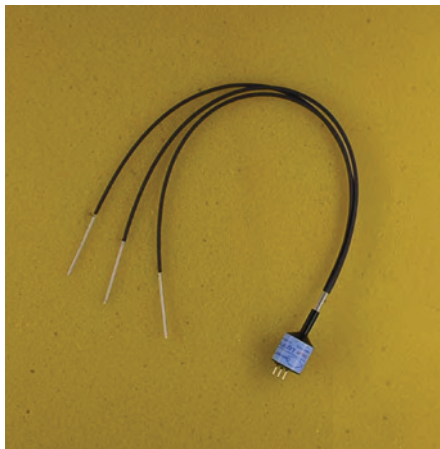


Universal LightProbe™ Sensors



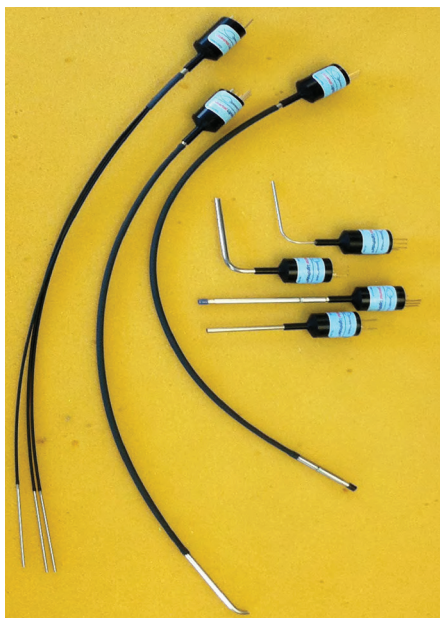
Optomistic Products' family of Universal LightProbe Sensors are small, highly versatile sensors and fiber-optic probes for the reliable test of LEDs - at minimum cost - meeting the needs of most component, circuit-board and finished product LED test requirements and fixture installation constraints. As the optical equivalent of in-circuit test (ICT) electrical probes, Universal LightProbe Sensors combined with a wide range of fiber-optic probes ensure the reliable and accurate test of color and intensity for almost every LED color and brightness.

Optomistic Products' unique patented technology reduces overall test time, and is designed to be compatible with today's high-density fixtures. The sensors are durable and versatile, operating from +5 to +40 volts and able to withstand reverse polarity up to -18 volts. Plus, the extremely popular Trident fiber-optic probes enable the sequential test of three LEDs with a single sensor for further cost savings.



The following data sheets and selection charts provide detailed information on Optomistic Products' eight sensor types, which can be configured with any one of our extensive range of fiber optic probes.

- **Universal LightProbe Sensor Selection Chart**
- **Universal LightProbe Penta Sensors**
- **Universal LightProbe Penta High Sensitivity Sensors**
- **Universal LightProbe Spectra Sensors**
- **Universal LightProbe Spectra USB Sensors**
- **Universal LightProbe Spectra White USB Sensors**
- **Universal LightProbe Unicolor Sensors**
- **Universal LightProbe Unicolor Digital Sensors**
- **Universal LightProbe Ultra High Sensitivity Sensors**
- **Universal LightProbe Blinx Digital Sensors**
- **Sensor Sensitivity Selection Chart**



Features

- **Small Sensor Size**
 - Accommodates limited space applications of today's fixtures
- **Fast Color Test**
 - Eliminates ATE software for LED wavelength to color conversion
 - Reduces overall testing time per LED
- **Wide Range of LED Intensity Measurement**
 - Able to measure from dim to bright, without adjustment
 - Low-sensitivity and high-sensitivity sensors are also available for very bright and very dim LEDs (see Application Note 35)
- **Fine Fiber-Optic Probes**
 - Optical quality stainless-steel tips accommodate very close spaced LEDs
 - Interchangeable with an extensive range of fiber-optic probe and probe-tip styles and sizes
- **Wide Range of Supply Voltage**
 - +5 volts to +40 volts for industry-wide application, ie: +5v, +13.5v (automotive) and +24v (avionics)

Universal LightProbe™ Sensors - Which Is Best For Your Test?

The chart below identifies features of each type of sensor, to assist in selecting the best sensor for each LED test application. Also refer to the fiber-optic probe selection chart to determine which fiber-optic probe is best for each LED test application.

Universal LightProbe Sensor Type	Test Any Color in Visual Spectrum (400-700nm) + White	Test 5 Main LED Colors + White (color binning)	Single Color Test	Test Near Infrared (NIR - 700 to 1,000nm)	ON/OFF Test (insensitive to color)	Intensity Test	Test Very Dim LEDs	Test Very Bright LEDs	Analog Output	Digital Output	Serial Digital Output/USB Interface
Penta		x				x			x		
Penta High Sensitivity		x				x	x		x		
Penta Low Sensitivity		x				x		x	x		
Spectra	x					x			x		
Spectra Low Sensitivity	x					x		x	x		
Spectra ASCII	x					x					x
Spectra ASCII Low Sensitivity	x					x		x			x
Unicolor			x	x		x					
Unicolor Low Sensitivity			x	x		x		x			
Unicolor Digital			x							x	
Unicolor Digital Low Sensitivity			x					x		x	
Unicolor Blinx					x					x	
Unicolor Blinx Low Sensitivity					x			x		x	
Ultra High Sensitivity					x		x			x	

* See Application Note 35 for information on choosing the correct sensitivity sensor for your specific LED test application

Notes:

- Very-low sensitivity sensors are also available for most sensor types. See Universal LightProbe Application Note 35 for more information on sensor sensitivity response in millicandelas.