

# ONLINE COLORIMETER



**Model 2410** reads color of online products. It has diffuse geometry and CIELAB filters. The sensor has a hot mirror lens option with cooling to allow reading online products up to 135-F. Spectral information between 400-780nm is used to calculate CIELAB (L\*a\*b\*) color values and color difference (Delta E) values. Either D65 or C illuminates can be selected. The software has storage with recall of standards and measurements. Standard features of the software are the display of Delta L\*, Delta a\*, Delta b\* and Delta E\* trend plots. Pass-Fail values can be set for each trend line with warning shown for each value. The sensor is designed to take a reading every ten seconds but is able to read every second under certain conditions. Readings can be summed and displayed as an averaged value. A Xenon lamp (approx. 1 million readings) provides illumination for the reading. The sensor is positioned 2.5-inches above the measurement surface. Calibration is required once per shift via activating a switch to swing the sensor inside the case to a white calibration tile.

## SPECIFICATIONS

### **Measurement Parameters:**

- ◆ Measured Area: 70 mm diameter (inches)
- ◆ Geometry: Diffuse Illumination, 0-Degree Read
- ◆ Range: Closely Matches CIE 1931 Standard Observer, 2-degree
- ◆ High Temperature Option (135-F) Option does not read color values above 760 nm (bright reds).

### **Accuracy:**

- ◆ Repeatability:  $\leq 0.3$  CIELAB Delta E units
- ◆ Reproducibility:  $\pm 0.5$  CIELAB Delta E units

### **Temperature:**

- ◆ Normal Operating Range: 5° to 38°C (40° to 100°F)
- ◆ High Temperature Option: 5° to 57°C (40° to 135°F)

### **Dimensions:**

- ◆ Height: 18 mm (7 inches)
- ◆ Width: 46 mm (1.8 inches)
- ◆ Depth: 23 mm (0.925 inches)
- ◆ Weight: 9 Kg (20 pounds)

### **Options**

- Remote Trigger For Reading Piece Parts
- Hot Mirror To Read High Temperature Products

**CONTACT US: [Janda@JandaCorp.com](mailto:Janda@JandaCorp.com)**

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**JANDA CORPORATION**

P.O. Box 4314, Annapolis, MD 21403 Tele 410-263-2223

MACHINE VISION AND COLOR TECHNOLOGY EXPERTS

[www.JandaCorp.com](http://www.JandaCorp.com)

SALES: [Janda@JandaCorp.com](mailto:Janda@JandaCorp.com)