PhotriX[™]

Ultra Fast Pyrometer for Demanding Industrial Processes

The PhotriX[™] Pyrometer from Luxtron offers the most precise non-contact measurements for industrial environments requiring closed loop control of thermal processes. Targeted at applications involving rapid thermal ramps, assembly lines with fast-moving targets, and applications with very small targets the PhotriX[™] offers unparalleled precision at ultra high speeds.

Superior Performance

Temperature measurements in many industrial-heating applications require repeatability as well as high resolution. The PhotriXTM system offers unmatched precision and speed made possible by its superior signal-to-noise ratio (SNR). The higher sampling speed (up to 1kHz) enables faster ramp rates of processes leading to higher throughput. The innovative design of the PhotriXTM also makes it exceptionally stable for long process cycles and its repeatable performance ensures consistent product quality.

Advanced Materials Processing

- Crystal Growth
- Semiconductor Processing
- Flat Panel Production
- Deposition and Etch

Industrial Heating

- Optical Fiber Drawing
- Vacuum Furnaces
- Induction Heating
- Annealing
- Ovens

Chemical / Petrochemical

- Incinerators
- Refractory Ovens
- Turbines

Minute Spot Size

The best-in-class SNR of the PhotriXTM allows it to make precise measurements while viewing very small spot sizes on the target material --as small as 1 millimeter. This unique feature combined with PhotriX's high speed offers unmatched spatial resolution of measurements for very small targets (e.g., filaments, wire, etc.) and targets with obstructed views.

Production Proven

Packaged in a rugged and compact enclosure, the PhotriX[™] system is designed for convenient integration into industrial equipment and processes. The sensor is protected in a stainless steel housing that is easily mounted using the incorporated threaded body.



PhotriX™

Specifications

Wavelength 700 - 1650 nm

Resolution 0.01 °C Above 150 °C

Accuracy ± 1.5 °C or 0.15 % of Reading

Speed Up to 1 kHz

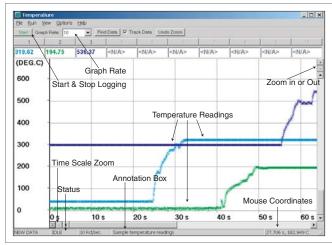
Repeatability < 0.15 °C per Year Drift

Output RS-232 (Standard); Analog Output (Optional)

Ambient Range 10-60 °C

Dimensions 35.0 mm Diameter, 165 mm Length

Power Universal Power Supply (also accepts 12VDC)



The PhotriX TemperaSure™ software is included and provides a graphical interface to change settings and log and/or display data.

The software is not required for operation after setup is complete.

Standard system includes

- Sensor Electronics with Anti-reflective Coated Lens
- PhotriX[™] Communication Interface Module (CIM)
- Software for PC that Performs Data Acquisition, Graphing and Setup Interface
- 4m Cable to Connect CIM to Sensor
- 3m RS-232 Interface Cable to Connect CIM to PC
- Universal Power Supply
- Calibration Certificates
- Manual

Available Accessories

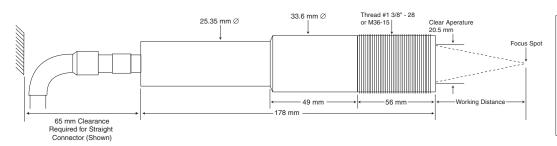
- Multi-channel PC Interface
- Carrying Case
- Analog Output Module (0-10V or 4-20mA)

Target Materials

The wavelengths that the PhotriX[™] operates at are suitable for the following targets:

- Metals
- Metal Oxides
- Ceramics
- SiO₂
- SiC
- Graphite

Sensor Dimensions



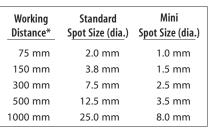
32mm Required for Right Angle Connector

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Your local Luxtron sales representative is:



* Custom working distances available for surcharge

