

Application Analysis Form

FOR PROCESS THERMAL IMAGING CAMERA APPLICATIONS



Contact Name: _____ Date: _____
Phone: _____ Email: _____
Company: _____
Address: _____ City: _____ State: _____ Zip: _____

APPLICATION DESCRIPTION / TEMPERATURE MEASUREMENT OBJECTIVE

TEMPERATURE MEASUREMENT / DETECTION / CONTROL OBJECTIVES

What do you require from the thermal imaging camera system? Temperature Set Point Alarms with 4-20ma control outputs? Detection of a Hot or Cold Spot, Average, Peak or Minimum Temperature in a User selectable area within the thermal image being displayed? Interface to PC, PLC, HMI or DCS?

WHAT IS EXPECTED FROM THE PSC SOFTWARE AND CAMERA?

Capture & save images as a single image or multiple image sequence files, trigger and capture images by Time, Temperature or external input. Saving of images manually or automatically to customer's network? Retrieve images and analyze. Export data, provide one or multiple analog / digital outputs for process control?

TARGET INFORMATION:

Process Description: (A separate sketch/ drawing of your application illustrating setup configuration is beneficial. Providing an Application picture showing what spot or area that is needed to be measured. Illustrating the position of the camera to the target under measurement is helpful.

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Continued on the next page.

A. **Nature of target surface (Material type, size, shape, color and surface condition)**

Material type: _____

Material surface condition: ☐ Shiny ☐ Semi-shiny ☐ Dull

Overall size of measurement viewing area: _____ W x _____ H ☐ feet ☐ meters

Minimum spot size to detect within the overall viewing area: _____ ☐ inches ☐ millimeters

Working temperature range: ☐ °F ☐ °C From _____° to _____° Critical temp. _____°

Distance restrictions from mounting the camera away from the target? ☐ Yes ☐ No

If Yes: Minimum _____ Maximum _____ ☐ feet ☐ meters ☐ inches ☐ millimeters

B. **How is the target heated?** ☐ Resistively ☐ Induction ☐ Flame ☐ Laser ☐ IR Lamps

Flame type: _____ If IR lamps or laser, wavelength emission: _____ μm (microns)

C. **Ambient temperature at camera's installation location:** _____ ☐ °F ☐ °C

D. **Water or air to cool/purge the camera?** Water: ☐ Yes ☐ No Air: ☐ Yes ☐ No

E. **Distance from thermal imaging camera to PC?:** _____ ☐ feet ☐ meters

F. **Environment conditions at camera's installation location (hot, clean, dirty & dusty, high vibration, etc.)?**

Hazardous environment (Class 1 Div. 2 etc.); Subject to outdoor installation/climate? **Explain as best as possible.**

G. **Do we have direct line of sight to the target?** ☐ Yes ☐ No If "No," please explain below.

H. **Are there any obstructions viewing the target (smoke, flames, viewport window, etc.)?** ☐ Yes ☐ No

If "Yes," are these obstructions: ☐ Continuous OR ☐ Periodic every _____ minutes _____ seconds

I. **Other information that you feel may be useful to understand your application requirement:**

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