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Abstract
As implied by the name the thermal tracking system, it means that the system can detect and track the object that is within the temperature range we give and points the camera lens to the central of the heat source. When the object is moving, the system can moves the camera lens in real-time to track the heat source and maintain the object to be the central of the lens to accomplish the function of tracking thermal source.

In this paper, the thermal imager is used to sense the temperature and capture the images. After processing the images and calculating the position of heat source through the image capture, A NIOS system is used to control the platform that is set up by the AC servomotor and the camera lens to follow the thermal object.

The major advantages of the thermal tracking system are that the system won’t be affected by the shading value and all substances that their temperatures are higher than the absolute temperature zero emit the thermal radiation. So using the thermal imager for tracking system is very proper.
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