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Abstract
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. 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, use the AC servomotor and the camera lens to follow the thermal object.
The design and implementation of this embedded image processing system for motion detection is based on an Altera DE2 development board using highly integrated SOPC builder. The experiment result shows this system can fulfill the demand of compact size, and low cost.
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