

ABSTRACT

The present invention provides a smoke detection method with visual depth, which uses an image camera and a depth camera to extract surrounding images and surrounding depth information. A vehicle is used to patrol an area, such as the area of a processing factory, for receiving the surrounding environment information and detecting existence of burning objects or smoke. Then a processor adopting the clustering algorithm is used to estimate the smoke distribution or the location of fire source of burning objects, and uses an alarm to provide alarm information. Thereby, the rescue crew can prepare in advance and respond immediately. By providing the correct information to the firemen in the fire scenes, the time to control the fire can be shortened and the time for evacuation can be increased.

Fig. 1