

AN ACTIVE AUDIO-VISUAL SURVEILLANCE SYSTEM

Abstract

This document describes an active audio-visual system and method for identifying events occurring at a location-of-interest. In particular, this document describes a system that comprises a Fisheye image capturing device, an audio module and a computing module communicatively coupled to both the image capturing device and the audio module whereby all the modules and devices are provided at the location-of-interest. In operation, the audio module is configured to issue a notification to the computing module when an audio event is detected at the location-of-interest. The notification, which will contain a point of origin of the audio event, will then be used by the computing module to cause the calibrated Fisheye image capturing device to provide a captured high-resolution perspective image of the point of origin of the audio signal to an event identification module for further processing.

FIGURE 1