

Concise Vision Sensor Synchronization

For Simple and precise high speed vision sensors

Overview

When multiple vision sensors are used to acquire images of a scene from multiple points of view to achieve, for example, cooperative tracking, wide area monitoring or 3D motion measurement, the image sequences given by the sensors should be synchronized.

Many of industrial vision sensors are equipped with dedicated electrical inputs/outputs, or wireless network for synchronization trigger signals. But the problem of the former is physical limitation and the latter is network delay is critical for high speed use cases.

In this invention, Incident light to a vision sensor from an intensity-modulated illumination source serves as the reference signal for synchronization. It enables concise set up compare to existing technologies.

Product Application

- ☐ Motion Sensing
- ☐ High Speed Vision Sensor
- ☐ Machine Vision

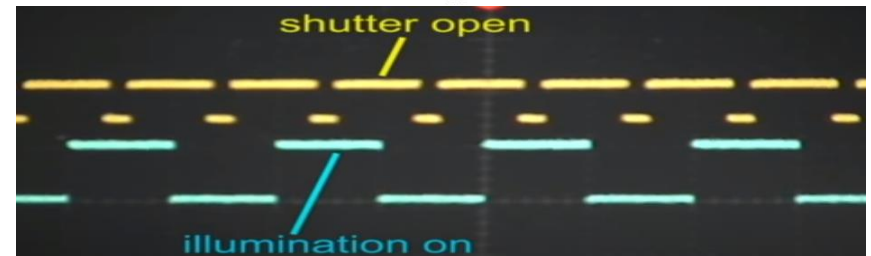
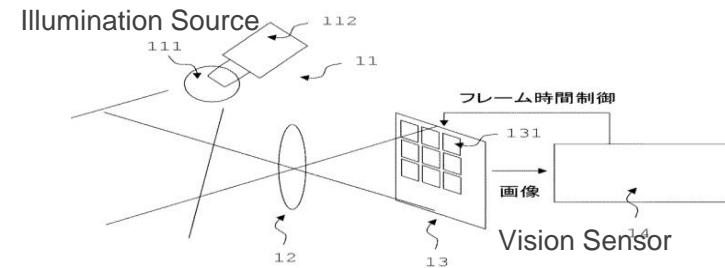
IP Data

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Features • Outstandings

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Related Works

[1] Lei Hou, Shingo Kagami, Koichi Hashimoto: Illumination-Based Synchronization of High-Speed Vision Sensors, Sensors, Vol.10, No.6, pp.5530-5547, 2010.

Contact