

ABSTRACT**SENSOR SYSTEM WITH ACTIVE ILLUMINATION**

The present invention relates to vision sensors based on an active illumination. An imaging system includes an imaging sensor and is adapted to process an
5 image of a scene being illuminated by at least two different illumination sources each having a wavelength in the near infrared range. In a variant, the imaging system is adapted to use an illumination source having a modulation frequency below the modulation frequency used to perform a three dimensional time of flight measurement. In a variant, the imaging system is adapted to acquire a
10 reduced number of samples per frame than used in time of flight measurements.

(Figure 8)