

ABSTRACT

The invention describes a three-dimensional object detection system comprising:

- a transmission device (201) configured so as to transmit signals using a colored transmission method in a first plane,
- a reception device comprising at least two sensors (211, 212) arranged in a second plane perpendicular to the first plane, and
- processing means (230) for processing the transmitted and received signals,

wherein the reception device is raised with respect to the transmission device, and wherein the processing means are configured so as to detect the presence of objects:

- in the first plane based on the signals received from at least one of the sensors using the color of the transmitted signal,
- in the second plane based on the signals received from at least two of the sensors.

The invention also describes the method for determining the presence of objects and for estimating their associated direction and distance.

Figure for the abstract: Fig. 2