

ABSTRACT

A FIELD DEPTH PERCEPTION SYSTEM

A field depth perception system has a primary digital camera in operative communication with a processor-based system. A pair of secondary digital cameras are in operative communication with the processor-based system, the secondary cameras being located on either side of the primary camera. The sensor of each secondary camera is directed away from the direction of the primary camera sensor, each secondary camera field of view partly overlapping the primary camera field of view. The processor-based system is programmable by instructions for generating a wide field view three-dimensional output image generated from images simultaneously acquired by each one of the cameras.

Figure 1