

Design and construction of a multi-dimensional object scanner.

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Abstract: This topic aims to introduce the necessity of developing multi-dimensional scanning systems in current practical applications. The objective is to build a multi-dimensional object scanner capable of simultaneously collecting image data from multiple directions, in order to improve quality and accuracy in the process of object analysis and recognition. Through a combination of theoretical research and experimentation, this topic hopes to contribute to the development of multi-dimensional scanning technology in fields such as e-commerce, medical imaging diagnostics, and resource management. Expected results will include a complete technical solution applicable in practice.

Keywords: object scanner, multi-dimensional scanning technology, image analysis