What is the function of the structured light projection module

With the assistance of the structured light projected by the projector, a 3D camera can acquire the depth data and 2D image of the target object in the way an ordinary 2D camera does.

Most structured-light systems are based on phase encoding principles and can be broadly categorized into two representative methods: FPP and PMD. FPP is suitable for diffuse surfaces and ...

With better optical performance and state-of-the-art depth processing algorithm, SH430 module can work even in the worse high intense ambient light conditions and offer more accurate/precise depth ...

Structured light refers to a vision system structure that utilizes a projector and one or more cameras to actively project coded patterns onto an object"s surface.

Structured light measurement is a technique used to determine the three-dimensional coordinates of points on an object"s surface. It involves a projector and a camera positioned at a fixed distance from each other--known as the baseline--and oriented at specific angles. The projector casts a structured light pattern, which can be either stripes, grids, or dots, onto the object"s surface. The camera then captures the distor...

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A structured light camera creates 3D data by projecting a structured pattern (stripes, dots, or grids) onto an object. The system then captures how the pattern deforms across the surface ...

Applications include face authentication for smartphones, contactless access control, security, gesture recognition, obstacle avoidance, and automotive in-cabin monitoring.

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Structured light is a precisely-calibrated pattern of white or blue light that a 3D scanner beams down onto whatever object you"re scanning.

Structured light 3D Scanning might sound like a complex term, but put simply, it"s a non-contact optical 3D scanning method used to capture shapes and dimensions of objects by projecting light patterns ...

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Structured light 3D scanning has become one of the most important technologies in modern industrial metrology, quality inspection, and reverse engineering. By projecting coded light patterns ...

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