

Three-Dimensional Vision Guidance Systems Function in Real Time

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Motoman Robotics has released two three-dimensional recognition vision functionalities that will prove useful for its industrial robot installations.



MotoSight 3D Spatial Vision

MotoSight 3D Spatial Vision can be used for a wide range of applications such as automated kitting, box moving, and part picking. This 3D vision guidance system is an adaptable and upgradeable package that functions in real time. The system is easy to install and provides an alignment wizard that directs users through calibration of the robot and cameras. It then enables tracking of loading typical CAD files of parts. It utilizes pattern matching to evaluate three dimensions for six degrees of pose and position data and also enables guided intrinsic and extrinsic calibration.

The second product introduced by the company is MotoSight 3D CortexVision. This system enables the use of 3D vision in applications that require robotic guidance such as welding, product sorting, and machine loading. It can observe many objects within the camera's field of view and identify those objects irrespective of presentation. The vision process can recognize the part placed in the camera's front. It can also identify very complex parts, irrespective of the part's location, and place it precisely.

Source: <http://www.motoman.com>