

ClearVu™ Vision

Programmable Zoom & Focus Vision System

DESCRIPTION

The Programmable Zoom and Focus camera allows the vision system to accurately align substrates with multiple levels and very small fiducials. The highest accuracy is achieved with ClearVu™ Vision due to the high magnification that can be used during alignment.

EQUIPMENT

ClearVu™ Vision can be mounted to the GPD Global® MAX Series and DS Series™ dispense platforms. ClearVu™ Vision is recommended for applications where high precision is a must.

Using the fiducial library within GPD Global®'s FLOWare® software, parameters for each fiducial type are stored for later program recall. During program operation with ClearVu™ Vision, many parameters can be adjusted on the fly: Zoom, Focus, Illuminator Color and Intensity, as well as camera gain and offset.

FLOWare® software also allows the operator to define separate parameters for visual inspection once a process has been completed. Inspection parameters can be set so an operator may view a larger area of the board at a lower magnification and adjust display parameters so they are appealing to visual inspection. Additionally, the standard FLOWare® software material library can set camera parameters for a specific material, which makes programming varieties of processes a snap.

GPD Global® offers additional features that are compatible with ClearVu™ Vision making it even more versatile across a wide array of substrates and applications. Some of those features are Illuminator Color Control, Illuminator Intensity Control, Multi-Axis illuminator, Dark Field Illumination, Backlit Auto Calibration Station, and the Impression Pad Calibration Station.



0.381 mm Pitch Component



Multi-Axis Illumina-



ClearVU™ on a MAX Series Dispenser