YASKAWA

Vision System

Camera & Software MotoSight2D

The new MotoSight2D Vision combines leading vision technology with leading robotic technology. The MotoSight2D product range is based on compact 2D cameras in 3 different performance classes. In addition to simple data exchange, programming of the camera from the teach pendant of the robot is also possible.

The tool set of the camera covers a wide range of camera applications, from Pick&Place applications to quality monitoring tasks. Of particular note here is the patented Patmax algorithm, the benefits of which are exploited to the full in typical Pick&Place applications.
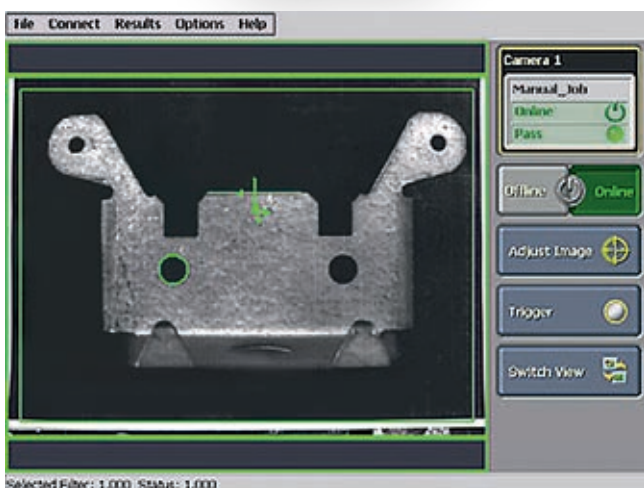

KEY BENEFITS

Camera:
• Direct communication with software MotoSight2D
• High speed and resolution
• Flexible mounting (on robot or free standing)
• Several equipment available

Software:
• Monitoring of up to 4 cameras
• Display camera image (live) on robot teach pendant
• Simple assignment of vision results to robot variables
• Storage of current jobs and images

Controlled by DX200

Equipment (Base Camera Kit)

Scope of supply:
• Camera (MS100, MS200, MS300)
• MotoSight2D Software

Other necessary components:
• Lens
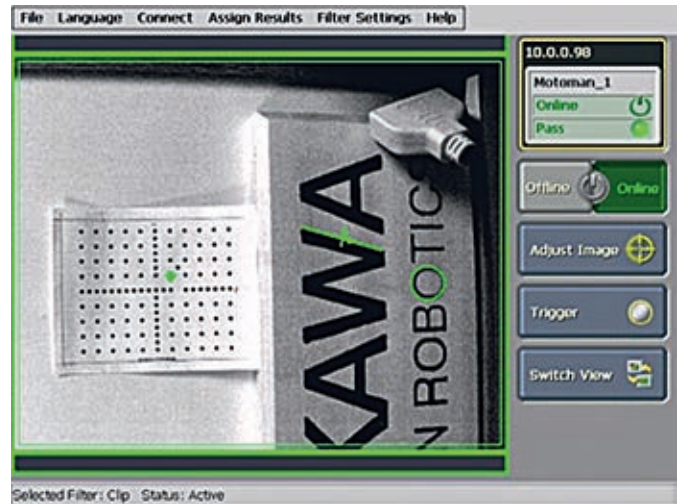• Ethernet and power cable

Features

Pendant features:
• Monitor and change on-line camera status
• Display pass/fail status
• Auto Display most recent camera image
• Display graphic overlays on captured image
• Calibrate camera using pendant
• Teaching of vision application

Communication:
• DX100, DX200 and FS100 controllers communicate directly with MotoSight2D camera over Ethernet

Vision features:
• Easy Builder and Spreadsheet
• Advanced option includes vision operator interface to view images from camera system
• High-resolution cameras available

Model	Technical data YASKAWA Cameras			
	Resolution	Processor speed	Frame/Second	Vision tools
MS100	800 x 600	1 x Base model	102	**Limited Tool Set** Pattern, Edge, Blob, Circle, Curve, Histogram, Geometry, Image Filters, Standard Calibration (9-Points)
MS200	800 x 600	3 x Base model	102	**Full Tool Set** Pattern, Edge, Blob, Circle, Curve, Histogram, Geometry, Image Filters, Standard Calibration (9-Points) PatMax (Geometric pattern matching technology), Advanced Calibration (non-linear calibration), and caliper tool, OCR, OCV; 2D Matix and Barcode reading
MS300	1280 x 1024	6 x Base model	60	**High Resolution & Full Tool Set** Pattern, Edge, Blob, Circle, Curve, Histogram, Geometry, Image Filters, Standard Calibration (9-Points) PatMax (Geometric pattern matching technology), Advanced Calibration (non-linear calibration), and caliper tool, OCR, OCV; 2D Matix and Barcode reading