



# MotoSight 2D

## Vision solution

### **MotoSight - the 2D vision solution**

MotoSight 2D EasyBuilder edition is a hardware and software solution that easily adds vision functionality to the DX100 robot controller. Featuring a Cognex In-Sight Micro camera and MOTOMAN programming pendant application software, MotoSight 2D is a powerful solution for 2D vision applications.

MotoSight 2D is ideally suited for general robot guidance, error proofing, part identification, part inspection and high-speed picking. Target applications include machine loading, pick & place transfers, assembly, packaging, palletizing, de-palletizing and welding.

Cognex's EasyBuilder programming tool allows users to solve complex vision applications easily. Base line programs are provided for the DX100 controller to reduce setup and configuration time of the system. These programs are designed to cover most 2D vision applications, but can easily be modified to fit specific application needs.

### **Benefits**

- ◆ Easily integrated vision solution
- ◆ Reduces the cost of expensive tooling for locating parts
- ◆ Adds flexibility to robot applications

### **Communication**

- ◆ The DX100 controller communicates directly with the Cognex camera over the Ethernet.

### **System requirements**

- ◆ DX100 controller with version DS1.45.xx-A-14 or later MotoPlus enabled version.

Description	Note	Part No.
MotoSight 2D	Software	441338
In-Sight Micro 1100W/PATmax	Cognex vision camera	8520010
Ethernet cable	Cognex standard	8521010



### Programming pendant

- ◆ Display camera images on the pendant's screen
- ◆ Monitor and change on-line camera status
- ◆ Display pass or fail status
- ◆ Automatic display of the most recent camera image
- ◆ Display graphic overlays on captured images
- ◆ Calibrate the camera with the use of the pendant



### Vision camera

- ◆ 1100 in-Sight camera
  - 1/3" CCD
  - 640x480 VGA
  - 60 frames per second
  - Lens type CS-mount and C-mount (with 5 mm extension, included)
- ◆ EasyBuilder
- ◆ Area-based search, boundary-based Pat-Find, image processing, blob, edge, histogram, standard mathematical and string handling functions
- ◆ Advance option includes a vision operator interface to view images from the camera system
- ◆ World's smallest smart camera
- ◆ Less light sensitivity versus other threshold level sensors
- ◆ Also possible to use the Cognex cameras in the 1000- and 5000-series

