

# Easy start-up of vision sensors

## Adding a variety of vision applications



### » Features

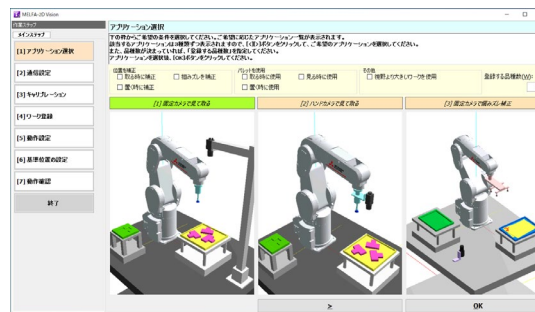
Achieve robot automation "easily for anyone" using a variety of vision applications!

Complete only with engineering support software RT ToolBox3!  
(No other software required)

Intuitive operation according to the guidance automatically generates vision and robot settings and operation programs!

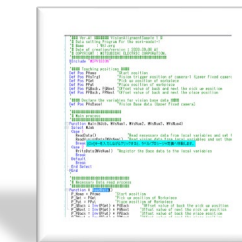
### » Diagram

#### 1. Application Selection

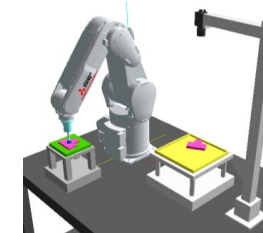


#### 2. easy interface configuration

- 1 Communication settings
- 2 Calibration
- 3 work registration
- 4 Operation settings
- 5 Gripping Position Setting



#### 4. Program Complete



#### 3. Operation check (fine adjustment)



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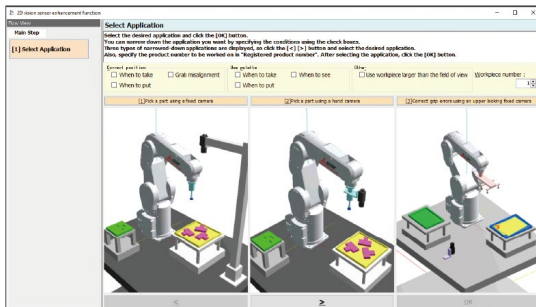
### » Features

#### functional concept

Realization of a wide range of vision alignment solutions "for anyone, easily and in a short time"!

Easy startup of various vision applications with selectable guidance screen

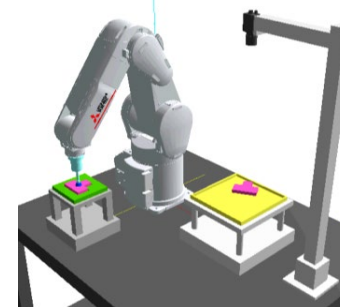
#### 1. Application Selection



#### 2. easy interface configuration

- 1 Communication settings
- 2 Calibration
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- 4 Operation settings
- 5 Gripping Position Setting

#### 3. Operation check (fine adjustment)



#### 4. Program Complete



### Overview of Features

#### Supports a variety of vision alignments

- Covers practical solutions such as simple pick and place work and grip misalignment correction
- Supports multi-product work (up to 5 types can be registered)

#### Easy startup by intuitive operation

- Vision robot settings and operation programs are automatically generated only by setting according to the guidance.

#### scalable program

- Programs can be customized based on the created program.

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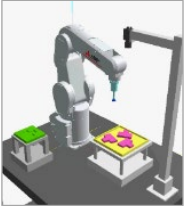
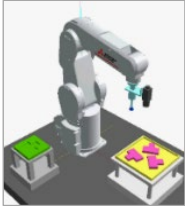

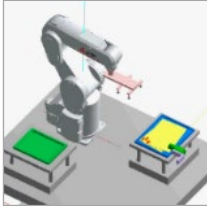
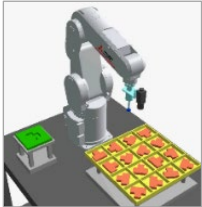
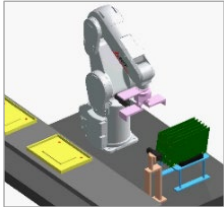
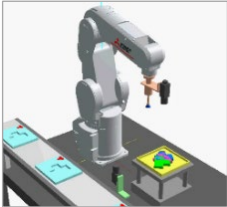
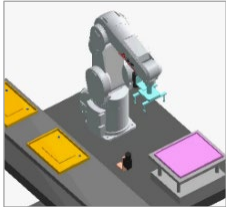
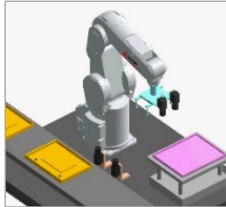
## Adding a variety of vision applications



### » Features

#### Supports a variety of vision alignments

- Covers practical solutions such as simple pick and place work and grip misalignment correction
- Supports multi-product work (up to 5 types can be registered)

<b>Basic Application</b>	<p>Recognition with a fixed camera</p> 	<p>Recognition with a hand camera</p> 	<p>Grip deviation correction with fixed camera (upward camera)</p> 	<p>Grip deviation correction with fixed camera (Landscape Camera)</p> 	<p>—</p>
<b>Advanced Application</b>	<p>Work recognition with the hand camera in the palette</p> 	<p>Grip deviation correction by recognizing work in the palette</p> 	<p>Position and grip deviation correction 1 (for small work)</p> 	<p>Position and grip deviation correction 2 (for medium work)</p> 	<p>Position and grip deviation correction 3 (for large work)</p> 

You can choose from nine applications, and when you do, you can check the operation image with animation.



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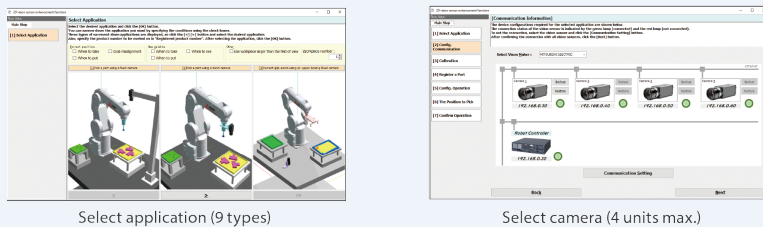
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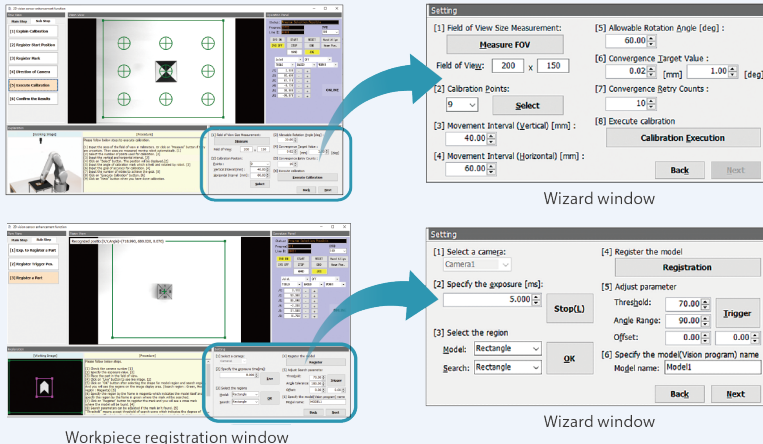
#### Easy startup by intuitive operation

• Vision robot settings and operation programs are automatically generated only by setting according to the guidance.

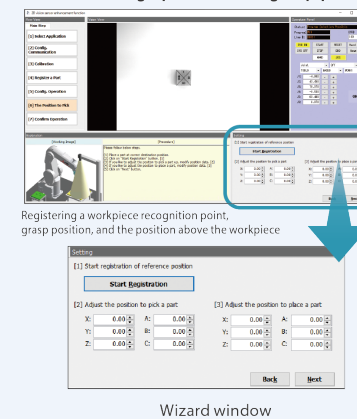
##### Step1 Selecting an application and camera



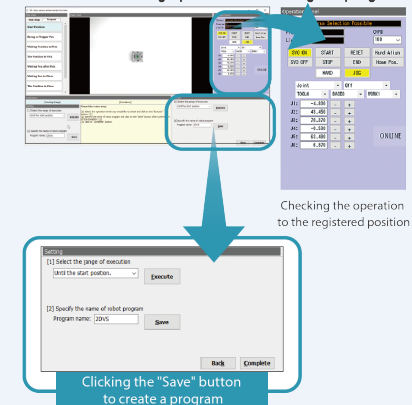
##### Step2 Performing calibration and registering a workpiece



##### Step3 Setting operation and grasp position



##### Step4 Checking operation and saving the program



When using the MELSENSOR series and Cognex vision sensors, the series of task is completed within RT ToolBox 3. No other software is required.

Supported models

Mitsubishi Electric: MELSENSOR VS 70/80 Series  
Cognex: In-Sight 7000/8000

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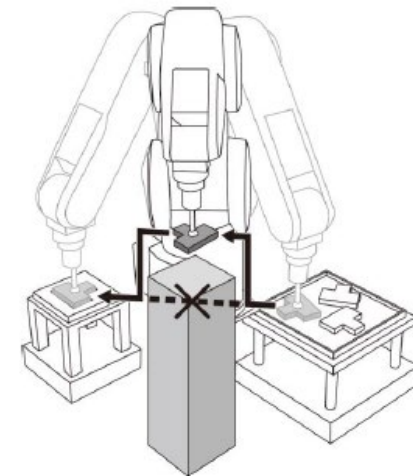
#### scalable program

- Programs can be customized based on the created program.

For the vision/robot settings and operation programs that are automatically generated according to the guidance, you can add or change programs according to your system, such as interlocking with peripheral devices and adding operation path points to avoid interference.

	Classification	Contents
1	vision imaging process	Control the imaging timing. (※) Example) Interlock with peripherals
2		Add an operation path to the vision imaging position. Example) Avoidance of interference with peripheral devices
3	pick-and-place processing	Control the timing during transport operation. Example) Interlock with peripheral device
4		Correct the operation path. (※) Example) Avoidance of interference with peripheral devices
5	error handling	Change the error handling. (※) Example) Notification and recovery of abnormal status

※ Examples of program additions and changes are provided in the manual.



Example) Added an operation path when moving from the position to take to the position to put.