Smart Vision Module Components



Installation Example



· Refer to the manual provided separately for usage. · Product life may vary depending on a number of factors including damage and wear caused by use, and Doosan Robotics does not assume responsibility for this • Do not pull out the power cable while the product is powered. It may cause damage to the product. • Doosan Robotics does not assume responsibility for damage due to unintended operation or unforeseen accident

Product Specification

Dimensions Weight Resolution	92mm(W) X 132mm(D) X 25.6mm(H) 348g CMOS 2.5M pixel(1920 X 1440)		The warranty period agreed with Doosan Robotics is 1 year after purchase. The warranty scope is differentiated between the full product and sub parts (AM), but the warranty period is same. However, if the Smart Vision Module is disassembled by the customer, the warranty for the module is voided. If the customer installs after purchasing SVM, follow our installation manual, please. In addition, we do not guarantee problems caused by customer carelessness.		
Camera	Focal length 3.4mm, Angle of view 75°		Classification	Name	Warranty Period
			Product	Smart Vision Module PKG	1 year after purchase
Brightness	White LED X 2ea(800Lux@WD500mm)	-	Sub Part	Smart Vision Module	1 year after purchase
Communication	TCP/IP, 100Mbps			Camera Cover Ass'y	1 year after purchase
				CABLE, SVM EXTERNAL (10000mm)	1 year after purchase
Power	24W(24V, 1A)			CABLE, SVM DC JACK (110mm)	1 year after purchase

A Caution

• SVM has been working properly since M2.2.1 The robot update is required to use SVM under M2.2.1. Contact the place of purchase for robot updates.

- · To update SVM firmware, you must proceed with DRST v1.2.0.26 or later. Severe problems with the SVM OS can occur if the update is under an earlier version. Please note. · When installing the robot, make sure to cut the power.
- In order not to cause cable interference, fixing to the robot with tape or using a dress pack prevents malfunctions. Cable damage caused by abnormal installation is not covered under warranty.
- · When power is turned on, the LED emits light, so do not install it aimed at a person's eyes.
- · Be careful not to let cable connections come in contact with a heavy or sharp object. It can cause the cable to snap.
- · Product performance can be limited due to temperature increase according to the operation environment.
- · Do not modify or repair the product at your own discretion.

Such repairs and modifications will void the manufacturer's warranty and will limit available services.

Doosan Robotics Smart Vision Module

Warranty



Smart Vision Module Installation Guide

1. Robot Pose

Set the robot to make a pose for easy SVM installation.

• Go to the Jog Setting menu and set the Joint Angle at 3-axis as 90 degrees, 5-axis as -90 degrees and the remaining items as 0 degrees.

3. Power Cable Connection

Connect the power cable to the connector slot on the right side of the SVM.



Place the SVM to the flange and use bolts to secure it.

▲ Install the SVM where it is a suitable to use. When tightening the bolts, select the appropriate screws length so that the robot flange is not damaged. (Bolts(M6 Size) are not included in basic compostion. The calibration jig is optional product, therefore it shall be purchased separately.) It is recomm ended to use it with pins because bolts may become loose when bolted to the SVM. If loosening occurs, error may occur during calibration.

4. Power Terminal Block Removal

Open the door of the robot controller and remove the ① Power Terminal Block (TBPWR) located on the bottom left.

6. LAN Cable Connection

Connect the LAN cable to the LAN Port located on the top right of the Robot Controller.

7. DC Cable and Power Cable ConnectionConnectio

connected to the SVM.



▲ Be careful of connector direction when connecting.









4	Do not connect the cable to the first
	WAN port (for external Internet net
	work connection) on the left.



2. SVM Installation

5-1. In case of less than 500mA of digital IO current usage in controller

5. Power Terminal Block Cable Removal

Connect the DC JACK cable to the bottom of the power terminal block and then insert the power terminal block back into the original location.



5-2. In case of more than 500mA of digital IO current usage in controller

Disconnect the wires connected to the power terminal block, connect the DC JACK cable to the external SMPS power, and then insert the power terminal block back into the original location.



▲ If you do not connect power to VIO / GIO, controller digital IO is not available.

Connect the DC Jack connected to the Controller to the Power Cable

8. Organization

Organize cables in a way that prevents interference with movement during robot control.





