

### **INSTALLATION PRECAUTIONS1**

•	Be sure to shut off all phases of the external power supply used by the system before mounting or removing this unit to/from the GOT. Not doing so can cause a unit failure or malfunction.
	Refore connecting the Rus connection cable to this unit, always shut off COT

periore connecting the Bus connection cable to this unit, always shut off GOT power and PLC CPU power externally in all phases.Not doing so can cause a malfunction.

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- Use this unit in the environment that satisfies the general specifications described in the User's Manual for the GOT used. Not doing so can cause an electric shock, fire, malfunction or product damage or deterioration. Do not drop the unit or subject it to string shock.
- A unit damage may result. A unit damage may result. When installing this unit to the GOT, fit it to the connection interface of the GOT and tighten the mounting screws in the specified torque range (0.36 N•m to 0.48 N·m) with a Phillips-head screwdriver No.2. Undertightening can cause a drop, failure or malfunction. Overtightening ca cause a drop, failure or malfunction due to screw or unit damage.

# **IWIRING PRECAUTIONS1**

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Be sure to shut off all phases of the external power supply used by the system before wiring. Failure to do so may result in an electric shock, product damage or

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- Exercise care to avoid foreign matter such as chips and wire offcuts entering
- the unit. Not doing so can cause a fire, failure or malfunction. Make sure to securely connect the cable to the connector of unit
- Incorrect connection may cause malfunctions

# [STARTUP AND MAINTENANCE PRECAUTIONS]

- **AWARNING** Before starting cleaning, always shut off GOT power externally in all phase. Not doing so can cause a unit failure or malfunction. Undertightening can cause the GOT to drop, short circuit or malfunction. Overtightening can cause a short circuit or malfunction due to the damage
- Do not disassemble or modify any unit. This will cause failure, malfunction, injuries, or fire.
- Do not touch the conductive areas and electronic parts of this unit directly. Doing so can cause a unit malfunction or failure.

# **∧** CAUTION

- Always secure the cables connected to the unit, e.g. run them in conduits or clamp them. Not doing so can cause unit or cable damage due to dangling, moved or accidentally pulled cables or can cause a malfunction due to a cable contact fault.
- Do not hold the cable part when unplugging any cable connected to the unit. Doing so can cause unit or cable damage or a malfunction due to a cable contact fault.
- Always make sure to touch the grounded metal to discharge the electricity charged in the body, etc., before touching the unit. Failure to do so may cause a failure or malfunctions of the unit.

### [DISPOSAL PRECAUTIONS]

	<b>▲ CAUTION</b>
•	Dispose of this product as industrial waste.

[TRANSPORTATION PRECAUT	IONS]

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Make sure to transport the GOT main unit and/or relevant unit(s) in the manner they will not be exposed to the impact exceeding the impact resistance described in the general specifications of the User's Manual for the GOT used, as they are precision devices. Failure to do so may cause the unit to fail. Check if the unit operates correctly after transportation.

# [TRANSPORTATION PRECAUTIONS]

When fumigants that contain halogen materials such as fluorine, chlorine, bromine, and iodine are used for disinfecting and protecting wooden packaging from insects, they cause malfunction when entering our products Please take necessary precautions to ensure that remaining materials from fumigant do not enter our products, or treat packaging with methods other than fumigation (heat method). Additionally, disinfect and protect wood from insects before packing products

### Manual

The following shows manuals relevant to this product.				
Manual name	Manual number (Model code)			
GOT2000 Series User's Manual (Hardware) (Sold separately)	SH-081194ENG (1D7MJ5)			
GOT2000 Series Connection Manual (Microcomputers, MODBUS/Fieldbus Products, Peripherals) For GT Works3 Version1	SH-081200ENG			
For the latest e-Manuals and PDF manuals, consult your local sales office.				

### Compliance with the EMC and Low Voltage

# **Directives**

To configure a system meeting the requirements of the EMC and Low Voltage Directives when incorporating the Mitsubishi GOT (EMC and Low Voltage Directives compliant) into other machinery or equipment, refer to "EMC AND LOW VOLTAGE DIRECTIVES" of the General Description included with the GOT used. The CE mark, indicating compliance with the EMC and Low Voltage Directives, is printed on the rating plate of the GOT.

### Compliance with the new China RoHS directive

GOT 相关的基于" 电器电子产品有害物质限制使用管理办法" 要求的表示方法

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Note: This symbol mark is for China only.

含有有害 6 物质的名称、含有量、含有部件 本产品中所含有的有害 6 物质的名称、含有量、含有部件如下表所示。 产品中有害物质的名称及含量

	有舌初庾					
部件名称	铅	汞	镉	六价铬	多溴联苯	多溴二苯醚
	(Pb)	(Hg)	(Cd)	(Cr(VI))	(PBB)	(PBDE)
电路板组件	×	0	0	0	0	0
树脂壳体、电缆、膜材	0	0	0	0	0	0
钣金部件、螺丝等金属部件	0	0	0	0	0	0
木表格依据 \$1/T11364 的非	回定编制	l I				

〇:表示该有害物质在该部件所有均质材料中的含量均在 GB/T26572 规定的限量要

求以下。 表示该有害物质至少在该部件的某一均质材料中的含量超出 GB/T26572 规定的

### Referenced Standard: GB/T15969.2 (Requirement of Chinese standardized law)

### Packing List

After unpacking the box, check that the following products are included

Model	Product	Quantity
	GT16 Video input unit GT16M-V4-Z	1
	Video Interface Converter Unit GT27-IF1000	1
GT27-V4-Z	Mounting screw set (2 screws (26mm), 2 stickers)	4
	GOT2000 Series Video/RGB Input Unit User's Manual (This manual)	1
	GT16 Video/RGB input unit GT16M-V4R1-Z	1
	Video Interface Converter Unit GT27-IF1000	1
GT27-V4R1-Z	Mounting screw set (2 screws (26mm), 2 stickers)	4
	GOT2000 Series Video/RGB Input Unit User's Manual (This manual)	1

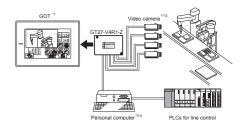
Model	Product	Quantity
	GT16 RGB input unit GT16M-R2-Z	1
	Video Interface Converter Unit GT27-IF1000	1
GT27-R2-Z	Mounting screw set (2 screws (26mm), 2 stickers)	4
	GOT2000 Series Video/RGB Input Unit User's Manual (This manual)	1

### 1. OVERVIEW

This User's Manual describes the following units. When mounting the following units with the GT27, the GOT can display video images taken by a camcorder or a RGB screen.

- The GT 27 video input unit GT27-V4-Z (hereinafter referred to as the video input unit) is configured with the GT 16 video unit and the Video Interface Converter Unit.
  For the video input unit, the GOT can display video images taken by up to four concorrection.
- The GT 27 video/RGB input unit GT27-V4-Z (hereinafter referred to as the video/RGB input unit and the GT16 video/RGB input unit and the GT16 video/RGB input unit and the Video Interface Converter Unit. For the video/RGB input unit, the GOT can display video images taken by up to four cancorders or a RGB screen for up to one device for the RGB input. The GT27 RGB input unit GT27-R2-Z (hereinafter referred to as the RGB input unit) is configured with the GT16 RGB input unit and the Video Interface Converter Unit.
- Converter Unit. For the RGB input unit, the GOT can display only one RGB screen by switching up to two video input channels

For the video input with using the above units, the GOT can be used as a vision sensor monitor. For the RGB input unit with using the above units, the units can be used as the RGB output type vision sensor.



### 1:Power on the GOT simultaneously with the camcorder

- \*2:Depending on the camcorder type, noise from the power supply cable of the camcorder may cause malfunction of the GOT or a programmable controller In this case, attach the following line filter to the power supply line of the camcorder.
- camcoraer. Recommended line filter: TDK-Lambda RSHN-2003 (or equivalent products) \*3:If the flickering of the screen occurs due to the noise from the RGB cable, attach the following ferrite core to the RGB input section. Recommended ferrite core: TDK-Lambda ZCAT3035-1330 (or equivalent
- products) \*4:When connecting any of the above units to a personal computer, ground the
- ground cable of the personal computer

### To use the video input unit, video/RGB input unit, and RGB input unit, set the controller settings

For the settings and system configurations, refer to GOT2000 Series Connection Manual (Microcomputer, MODBUS Products, Peripherals) for GT Works3 Version

For the details of the video input, video/RGB input, and RGB input function, refer to GT Designer3 (GOT2000) Help.

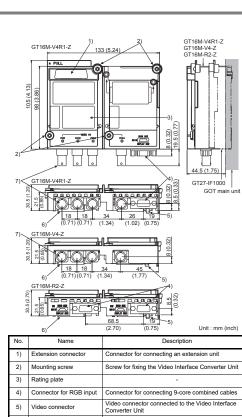
# 2. SPECIFICATIONS

The performance specifications of the video input unit, video/RGB input unit, and RGB input unit are indicated below. The general specifications of the video input unit, video/RGB input unit, and RGB input unit are the same as those of the GOT.

Refer to the User's Manual for the GOT used for the general specifications of the GOT

Do not bunch the control wires or communication cables with the main circui or power wires, or lay them close to each other. As a guide, separate the lines by a distance of at least 100mm (3.94 inches) otherwise malfunctions may occur due to noise.

ltem			Specifications			
	nem		GT16M-V4	GT16M-V4R1	GT16M-R2	
	Video	Color	NTSC format, PAL format(interlaced format)		-	
	format	Monochro me	EIA format, CCIF (interlaced formation	-		
Video input			4 channel		-	
section*2	Input signal		IVp-p, 75Ω, com	posite signal	-	
	Display size	•	640 × 480 dot 768 × 576 dot, 72	640 × 480 dot 768 × 576 dot, 720 × 480 dot <sup>*1</sup>		
	Connector for external connection		BNC connector		-	
	RGB input method		-	Analog RGB(XG) SVGA: 800 × 60 VGA:640 × 480		
	Number of video input channels		-	1 channel	2 channels*3	
RGB	Input image signal		-	1Vp-p, 75 Ω		
input	Synchronizing signal		-	TTL, 1kΩ		
section	Display size	•	-	1024 × 768 dot (refresh rate 60Hz) 800 × 600 dot (refresh rate 60, 72, 75Hz) 640 × 480 dot (refresh rate 60, 72, 75, 85Hz)		
	Connector for external connection		-	D-Sub15 pin: female		
		3.3 VDC	0.32A	0.51A	0.49A	
Internal current consumption 5.0 VDC		0.34A accompanied with the GT27- IF1000	0.39A accompanied with the GT27- IF1000	0.35A accompanied with the GT27- IF1000		
Weight			0.34kg accompanied with the GT27- IF1000	0.36kg accompanied with the GT27- IF1000	0.33kg accompanied with the GT27- IF1000	

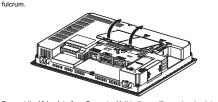


### 4. INSTALLATION AND REMOVAL PRO-CEDURE

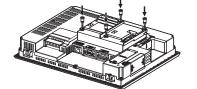
### 4.1 Unit Installation

llation procedure for the video/RGB input unit is explained using the GT2712 1) Turn off the GOT.

2) Pull up the two hooks in the extension unit cover (two covers) of the GOT to vard the opposite side of the hoots of the cover as remove the cover to



3) Connect the Video Interface Converter Unit to the auxiliary extension interface and the extension interface on the GOT. After connecting it, tighten four mounting screws (26mm) with a torque of 0.36N•m to 0.48N•m to fix the unit. ing screws (26mm



4)The connector for video input has the protection Remove the protection cap for the connector to be used.
 (Store the removed protection cap.)
 Fit the GT16 video/RGB input unit n the Video Interface Converter Unit case. Tighten four mounting screws (40mm) of GT16 video/RGB input unit with a torque of 0.36N•m to 0.48N•m to fix the unit.

### Warranty

Mitsubishi Electric will not be held liable for damage caused by Mitsubishi Electric Will not be neid liable for damage caused by factors found not to be the cause of Mitsubishi Electric; machine damage or lost profits caused by faults in the Mitsubishi Electric products; damage, secondary damage, accident compensation caused by special factors unpredictable by Mitsubishi Electric; damages to products other than Mitsubishi Electric products; and to other duties.

### **A** For safe use

- This product has been manufactured as a general-purpose part for general industries, and has not been designed or manufactured to be incorporated in a device or system used in purposes related to human life.
- numan life. Before using the product for special purposes such as nuclear power, electric power, aerospace, medicine or passenger movement vehicles, consult with Mitsubishi Electric. This product has been manufactured under strict quality control. However, when installing the product where major accidents or
- losses could occur if the product fails, install appropriate backup or failsafe functions in the system.

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:Compatible with PAL and CCIR formats only. \*2. The GOT cannot display both video images and RGB screens at the same time. \*3. The GOT can display only one RGB screen.

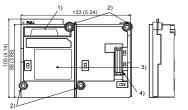
# **3. PART NAMES AND EXTERNAL** DIMENSIONS

### 3.1 GT16 Video/RGB Input Unit, GT16 Video Input Unit, and GT16 RGB Input Unit

The external dimensions for all the units are the same except the co dimensions of the video input section and the RGB input section

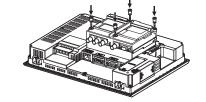
6)	Interface connector	Unit
7)	Connector for video input	Connector for connecting a coaxial cable

### 3.2 Video Interface Converter Unit

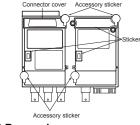




No.	Name	Description
1)	Extension connector	Connector for connecting the GT16 Video/RGB Input Unit, GT16 Video Input Unit, or GT16 RGB Input Unit
2)	Mounting screw	Screw for fixing the GOT
3)	Rating plate	-
4)	Video connector	Video connector for connecting the GT16 Video/RGB Input Unit, GT16 Video Input Unit, or GT16 RGB Input Unit
5)	Auxiliary extension connector	Auxiliary extension connector connected to the GOT
6)	Interface connector	Extension connector connected to the GOT



8) For mounting no extension unit on the unit, cover over four mounting screws with the accessory stickers to the GT16 video/RGB input unit, the GT16 video RGB input unit, or the Video Interface Converter Unit to avoid static electricity Keep the connector cover fixed. Keep all the stickers fixed



### 4.2 Unit Removal

For removing the Video/RGB Input Unit, Video Input Unit, and RGB Input Unit, reverse the procedure of the installation

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Specifications subject to change without notice. Printed in Japan, July 2023.