

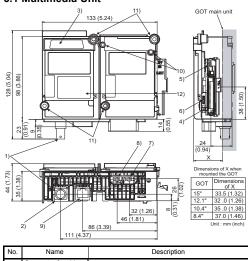
sonal safety Please save this manual to make it accessible when required and always forward it to the end use

#### **IDESIGN PRECAUTIONS1**

Do not bunch the control wires or communication cables with the main circuit 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.

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

## 3.1 Multimedia Unit



1)	Connector for video input	Connector for connecting a coaxial cable
2)	Interface connector	Connector connected to the GOT
3)	Extension connector	Connector for connecting an extension unit
4)	CF card interface	Interface for inserting a CF card
5)	CF card access switch	Switch for enabling or disabling access to the CF card ON: CF card accessed OFF: CF card not accessed
6)	CF card access LED	LED lamp lit when the CF card is accessed
7)	Sound input terminal	Terminal for connecting the cable of the sound input device
8)	Sound output terminal	Terminal for connecting the cable of the sound output device
9)	Ethernet interface	Connector for Ethernet communication
10)	Board fixing screw	Screw for fixing the extension interface relay board
11)	Mounting screw	Screw for fixing the multimedia unit
12)	Rating plate	-

### [INSTALLATION PRECAUTIONS]

	OANGER
•	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. Before 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.
•	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. 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. Undertightening can cause a drop, failure or malfunction. Overtightening can cause a drop, failure or malfunction due to screw or unit damage.
[W	IRING PRECAUTIONS]

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 malfunctions.

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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]

## 

- Before starting cleaning, always shut off GOT power externally in all phases. 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 of the screws or unit.
- Do not disassemble or modify the unit and the CF card. Doing so can cause a failure, malfunction, injury or fire.
- Do not touch the conductive areas and electronic parts of this unit directly. Doing so can cause a unit malfunction or failure.

#### 

- 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.

## 

- When installing a CF card into this unit, insert it into the card slot of this unit until the CF card eject button pops out. Failure to do so may cause a malfunction due to poor contact.
- Before inserting or removing a CF card into/from this unit, turn the CF card access
- switch off. Failure to do so may corrupt data on the CF card. When removing a CF card from the GOT, support it by hand, as it may pop out. Failure to do so may cause the CF card to drop from the unit, resulting in a damage or failure

[DISPOSAL PRECAUTIONS] 

Dispose of this product as industrial waste

## [TRANSPORTATION PRECAUTIONS]

- 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

## 4. INSTALLATION PROCEDURE

#### 4.1 Cable Connection

- 1) Connect the cables of the sound I/O devices to the multimedia unit. 2) Attach the cable clamp to the unit. Position the cable clamp band outside, and insert the cable clamp to section A
- shown in the following figure until it clicks. For the band inserting direction, refer to the arrow (The cable clamp is the RST-1NB manufactured by TAKEUCHI INDUSTRY CO.,
- LTD.) 3) Put the cables of the sound I/O devices through the looped cable clamp band,

## and pull the band to fix the cables



#### 4.2 Unit Installation

Cable of the

The installation procedure for the multimedia unit is explained using the GT1685.







#### Manual

The following shows manuals relevant to this product.

#### Detailed Manual

Manual name	Manual number (Model code)
GT16 User's Manual (Hardware)	SH-080928ENG
(Sold separately)	(1D7MD3)
GT16 User's Manual (Basic Utility)	SH-080929ENG
(Sold separately)	(1D7MD4)
GOT1000 Series Connection Manual (Microcomputer, MODBUS Products, Peripherals) for GT Works3 (Sold separately)	SH-080871ENG (1D7MC5)
GT Designer3 Version1 Screen Design Manual	SH-080867ENG
(Functions) (Sold separately)	(1D7MC1)

## **Relevant Manuals**

For relevant manuals, refer to the PDF manuals stored in the DVD-ROM for the drawing software used.

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#### 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 Radio Waves Act (South

Korea) This product complies with the Radio Waves Act (South Korea). Note the following when using the product in South Korea.

이 기기는 업무용 (A급) 전자파적합기기로서 판매자 또는 사용자는 이 점을 주의하시기 바라며, 가정외의 지역에서 사용하는 것을 목적으 로 합니다. (The product is for business use (Class A) and meets the electromagnetic compatibility requirements.

The seller and the user must note the above point, and use the product in a place except for home.)

#### Compliance with the new China RoHS directive " 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 GOT 相关的基于



Point

Cable clamp

(arrow A). X.S.

Removing multimedia unit

and pull out the band

PROCEDURE

5.1 Installation

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。

	有害物质					
部件名称	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr(VI))	多溴联苯 (PBB)	多溴二苯醚 (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

本表格依据 SJ/T11364 的规定编制。 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 Ŏ:

Precautions for connecting sound I/O devices
Do not connect or disconnect the cables of the sound I/O sections during
sound input or output.
Do not connect devices other than sound I/O devices to the sound I/O
sections of the multimedia unit.

dia unit by

Remove the board fixing screws, and then remove the multimedia u tilting  $\triangle$  PULL so that the connector is not damaged. (Refer to 6).)

(1) Removing cable clamp band The cable clamp band can be removed after the cables are fixed. Press the tab of the cable clamp upward using a screwdriver and others,

(2) Removing cables from multimedia unit The cables of the sound I/O devices can be removed from the unit even if the cables are fixed with the cable clamp. Remove the cables by pressing the cable clamp from both directions

5. CF CARD INSTALLATION/REMOVAL

1) Open the CF card cover, and turn off the CF card access switch of the unit.

限量要求

Packing List

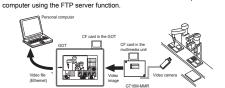
After unpacking the box, check that the following products are included.

Model	Nodel Product	
	Multimedia unit	1
	Mounting screw set (4 screws, 4 stickers)	1
GT16M-MMR	Extension interface relay board	1
	Cable clamp (for sound I/O)	1
	GT16 Multimedia Unit User's Manual (This manual)	1

## 1. OVERVIEW

This user's manual describes GT16 multimedia unit (hereinafter referred to as the multimedia unit). multimedia unit). The following functions are available by mounting the multimedia unit on the GT16 M.

- The GOT displays a video image taken by a video camera, or the GOT stores
- the video image as a video file in a CF card and plays the file. When an error occurs, a video image taken 120 seconds before and after the error (up to 240 seconds) can be stored as a video file in a CF card. With the Ethernet connection, the GOT sends a video file to the personal



\*1: To store video files in the personal computer, the FTP server function of the GOT and the multimedia interaction tool are required. \*2: Power on the GOT simultaneously with the video camera. \*3: Depending on the video camera type, noise from the power supply cable of the video camera may cause maifunction of the GOT or a programmable controller. In this case, attach the following line filter to the power supply line of the video camera.

camera. Recommended line filter: TDK ZHC2203-11 (or equivalent products) To use the multimedia unit, set the communication settings. For the settings and system configurations, refer to GOT1000 Series Conne Manual (Microcomputer, MODBUS Products, Peripherals) for GT Works3. For the multimedia function, refer to GT Designer3 Version1 Screen Design Manual (Kinctions) For the multimedia f Manual (Functions).

### 2. SPECIFICATIONS

The following shows the performance specifications of the multimedia unit. The general specifications of the multimedia unit are the same as those of the GOT. For the general specifications of the GOT, refer to the User's Manual for the GOT used.

Item			Specifications		
	Input	Color	NTSC format, PAL format (interlaced format)		
	format	Monochrome	EIA format, CCIR format (interlaced format)		
	Number of channels		1 channel		
Video input	Video input signal		IVp-p, 75 Ω, composite signal		
section	Display size (dot)		640x480 768x576 <sup>*1</sup>		
	Connector for external connection		BNC connector		
	Applicable wire size		75 Ω shielded coaxial cable al shield cable		
	Number of channels		1 channel		
Sound input	Sound input signal		1 Vrms		
section	Connector for external connection		$\phi$ 3.5 stereo mini jack, straight type		
	Number of channels		1 channel		
Sound output	Sound output signal		1 Vrms (Rated load 10k Ω)		
section	Connector for external connection		$\phi$ 3.5 stereo mini jack, straight type		
CF Card I/F	Slot		Compact flash Slot (TYPE1) 1 channel		
section	Mode		True-IDE mode		
	Number of channels		1 channel		
Ethernet I/F section	Connector for external connection		RJ-45 jack		
	Data transfer method		10BASE-T/100BASE-TX		
	File format		3GP, MP4		
Video file	Video coding/decoding format		MPEG-4 Part.2 SP@LV4		
	Resolution/maximum frame rate		VGA/15fps, QVGA/30fps		
Internal current consumption 3.3VDC 5.0VDC		3.3VDC	0.51A		
		5.0VDC	0.27A		
Weight			0.28kg (0.61lb)		

\*1:Compatible with PAL and CCIR formats only.

#### Warranty

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

#### ▲For safe use

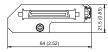
- This product has been manufactured as a general-purpose part for general industries, and has not been designed or manufactured to be incorporated in a device or system used in purposes related to human life.
- Before using the product for special purposes such as nuclear power, electric power, aerospace, medicine or passenger movement vehicles, consult with Mitsubishi. 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.

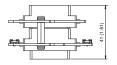
#### Country/Region Sales office/Tel USA

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- Sales office/Tei Mitsubishi Electric Automation, Inc. 500 Corporate Woods Parkway, Vernon Hills, IL 60061, U.S.A. Tei + 1.46747487-2100 Mitsubishi Electric do Brasil Comercio e Servicos Ltda. Rua Jussara, T.575. Bloco B Ancox, Jardím Santa Ceclia, CEP 06465-070, Barueri SS, Pasil Tei + 5547-14686-0. Mariano Escobedor #69, Col. Zona Industrial, Tialnepantia Edo. Mexico, C.P.54030 Tei + 525-553067-7511 Mitsubishi Electric-Platz 1, 40882 Ratingen, Germany Tei: +432-102468-0 Mitsubishi Electric Europe B.V. German Branch Mitsubishi Electric Europe B.V. UK Branch Mitsubishi Electric Europe B.V. UK Branch Germany
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- Turke Mitsubishi Electric Turkey A.S. Umraniye Branch Serifali Mahallesi Nutuk Sokak No:5 TR-34775 Umraniye / Istanbul Tu

## 3.2 Extension Interface Relay Board

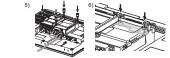




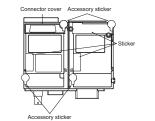
Unit · mm (inc

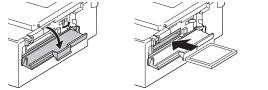


5) Tighten four mounting screws with a torque of 0.36 to 0.48 N·m to fix the unit. 6) Tighten two board fixing screws with a torque of 0.36 to 0.48 N·m to fix the board



) For mounting any extension unit on the multimedia unit, remove the connector cover and the stickers. For mounting no extension unit on the multimedia unit, cover over four mounting screws with the accessory stickers to avoid static electricity. Keep the connector cover fixed. Keep all the stickers fixed. 7) For mo





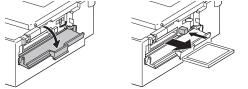
Insert a CF card into the CF card interface with the front side facing up.
 Turn on the CF card access switch.

## 5.2 Removal

1) Open the CF card cover.

Turn off the CF card access switch, and check that the CF card access LED turns off.

(When the CF card access LED is off, the CF card can be removed even while the GOT power is on



2) Press the CF card eject button to pop out the CF card, and ren nove the card

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Specifications subject to change wi Printed in Japan, October 2016.