

iQ Platform  
Graphic Operation Terminal Screen Design Software  
MELSOFT GT Works3



Streamlining workplaces with  
a new style of screen design

*GOT Screen Design Software*  
**MELSOFT GT Works3<sup>+plus</sup>**

Professional designs.

Maximized efficiency.

Intuitive operations.

All made possible by GT Works3.

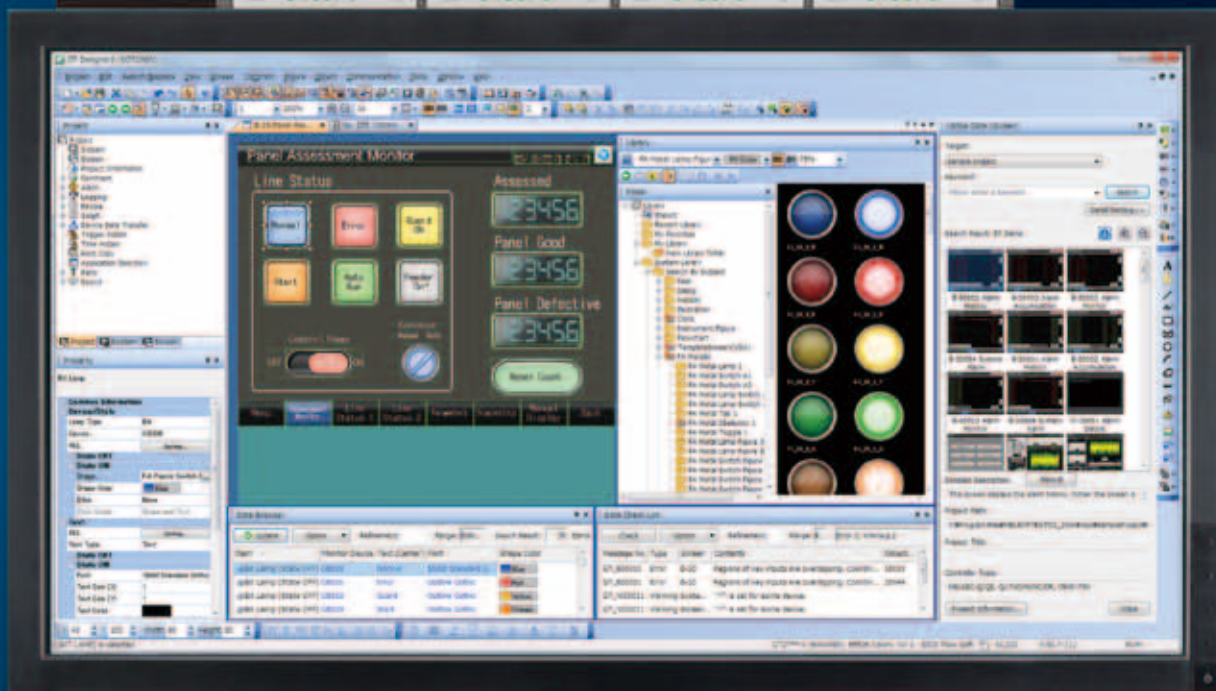
Whether the goal is to improve design efficiency, create unique screens, or reuse existing ones, MELSOFT GT Works3 is the perfect solution. It offers ready-to-use sample screens and enables reuse of pre-existing designs to accelerate time-to-market.

Additionally, fully integrated to the GOT screen is connectivity to Mitsubishi FA products as well as other applications. And because everything is designed to operate intuitively, first time users do not have to worry about a learning curve. GT Works3 is truly triggering a revolution in screen design.

*GOT Screen Design Software*  
**MELSOFT GT Works3<sup>+plus</sup>**

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**GOT2000**  
[ Graphic Operation Terminal ]

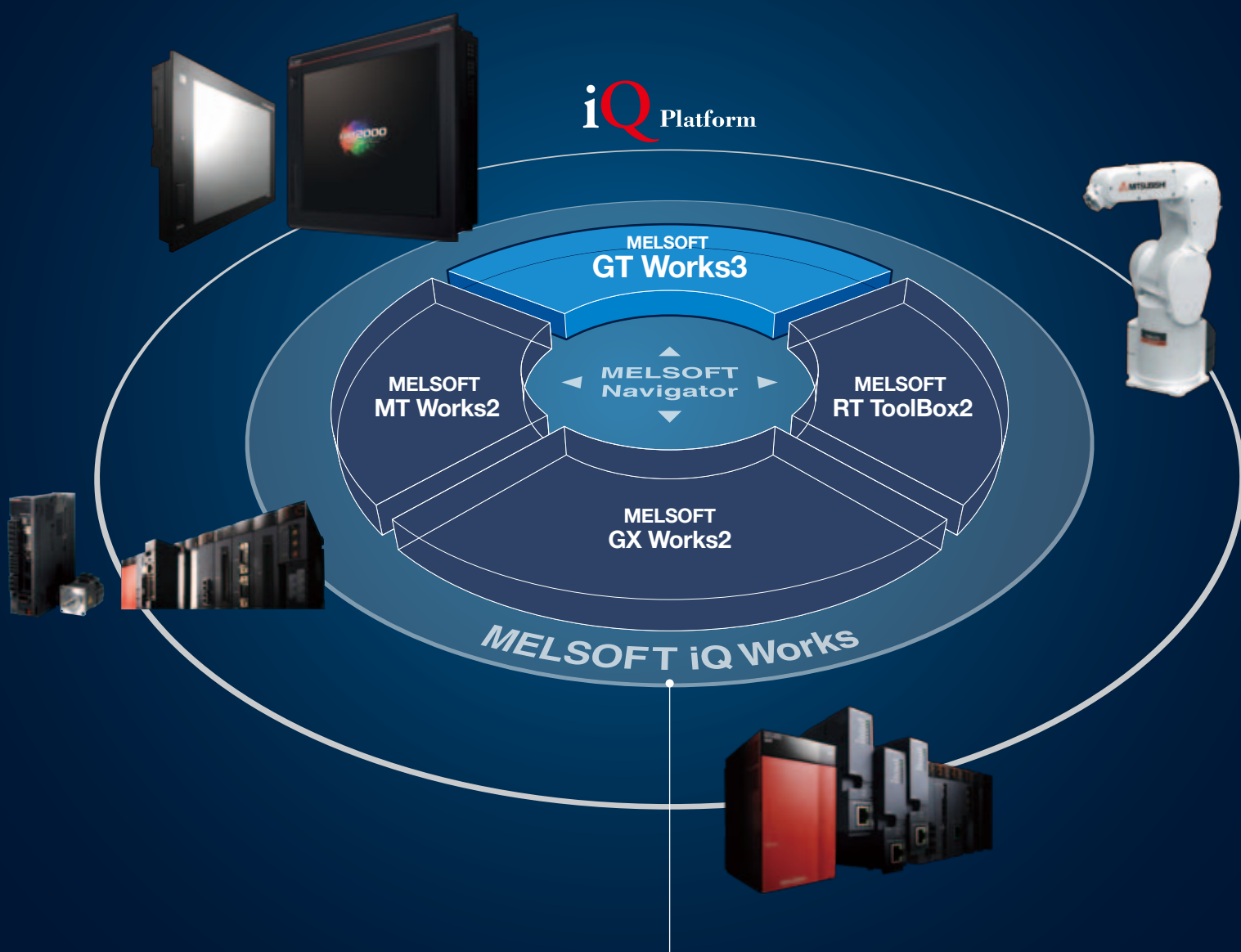




GOT Screen Design Software

# MELSOFT GT Works3

This integrated software is used to create professional screen designs for GOTs. Developed with the concepts of "Simplicity", "Sleekness", and "User-friendliness" in mind, this is a powerful tool that pushes boundaries and delivers endless design possibilities.



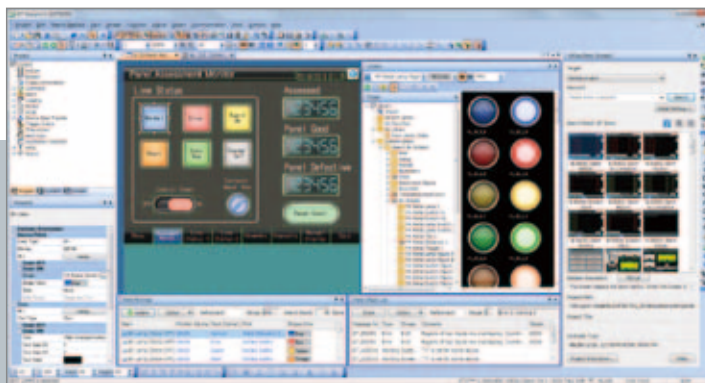
FA Integrated Engineering Software

## MELSOFT iQ Works

MELSOFT iQ Works is an integrated engineering software product, composing of GX Works2, MT Works2, GT Works3, and RT ToolBox2. By sharing information such as system designs and programming as the entire control system, the system design and programming efficiency are improved and total cost reduction is achieved.







System Management Software

## MELSOFT Navigator

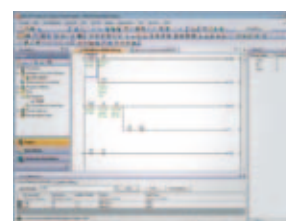
MELSOFT Navigator, along with GX Works2, MT Works2, and GT Works3, facilitates system level design and acts as the interface between each software. Useful functions include design of system configuration, parameter batch setting, system labels, and batch read.



Programmable Controller Engineering Software

## MELSOFT GX Works2

This software comprehensively supports programmable controller design and maintenance. In addition to inheriting program resources created with GX Developer, familiar functions have been refined to provide more intuitive operation and reduce engineering costs.



Motion Controller Engineering Software

## MELSOFT MT Works2

This software comprehensively supports motion controller design and maintenance. Reductions to the motion system's TCO are assisted by intuitive settings on a graphical screen, programming functions and convenient functions such as the digital oscillation simulator.



Robot Engineering Software

## MELSOFT RT ToolBox2

This software provides comprehensive support from program creation to startup, adjustment, and maintenance. A variety of convenient functions include the 3D evaluation simulator that allows parameters and peripheral devices to be visualized, and the maintenance forecast that facilitates preventive maintenance.



# GOT Screen Design Software MELSOFT GT Works3+plus

Highly recommended functions to easily design professional screens.

## 1 PNG images and outline fonts now supported!

NEW

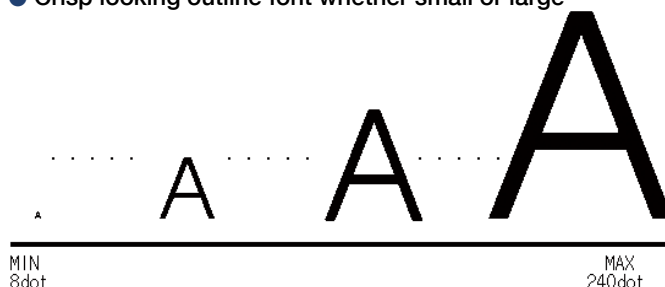
GOT2000

PNG images have smooth contours even when enlarged, and outline fonts that support 8 dots to 240 dots for professional looking screens.

● PNG image system library



● Crisp looking outline font whether small or large

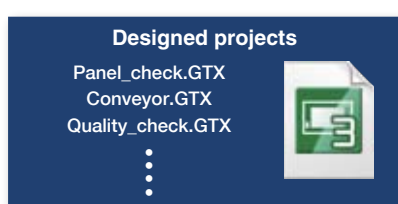


## 2 Effectively use screen assets with “Utilize Data Function”

NEW

GOT2000

Use keyword search to find applicable screens from sample or past projects.  
Reusing pre-existing screens increases design efficiency.



I know we had  
similar project data...  
Where is it?

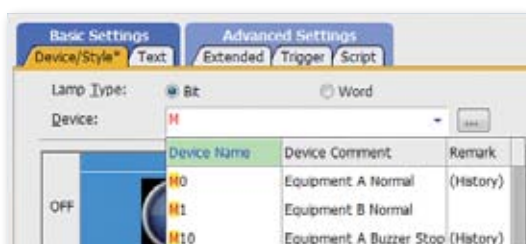
➔P.10

## 3 Faster device input with “Input Assist”

NEW

GOT2000

Applicable devices are displayed for fast and easy device input.



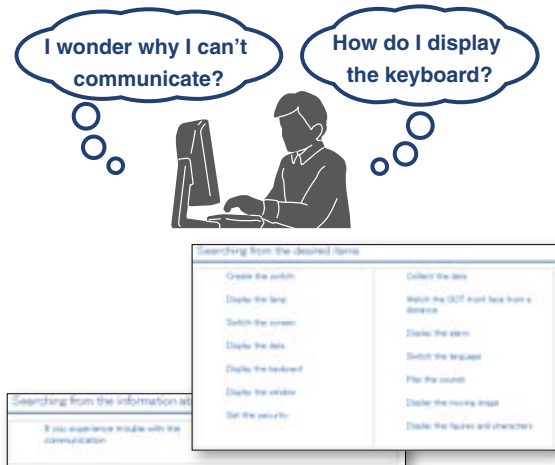
What was that device?  
Oh, here it is!

➔P.14

## 4 Quick search with "Help" function Upgrade

Search for information with the function name, specifications or with phrases on information you need or are having trouble with. **NEW**  
Press the F1 key to display related help.

GOT2000  
GOT1000



➔P.15

## 5 "Templates" simplify screen customization

Register devices and colors for objects and figures as templates to easily change them in a batch.

GOT2000  
GOT1000



➔P.16

## 6 Backward compatibility with GOT1000

Just select the GOT type in the Type Setting to open the drawing screen for your GOT type.

GOT2000  
GOT1000



## INDEX

● Supported only with GOT2000  
● Supported with both GOT2000 and GOT1000

### Improving Screen Design Efficiency

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# Screen Configuration (GOT2000)

## Work Tree P.19

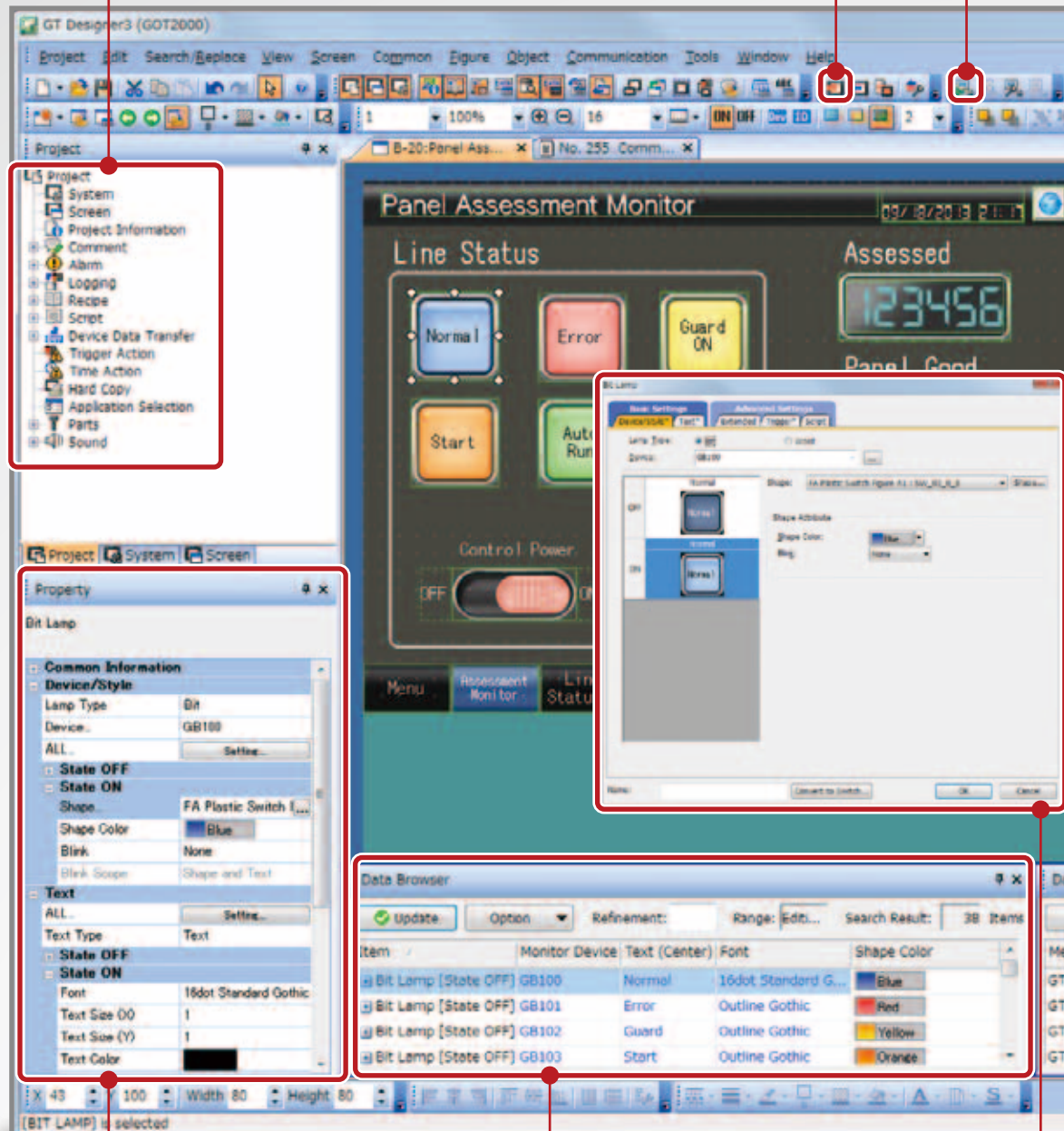
Upgrade

View projects, and easily add or delete screens!

## Data Transfer P.23

Upgrade

Transfer data with a single click!



## Property Sheet P.19

Setting details are shown as a tree view, and can be changed in a batch!

## Data Browser P.18

Settings are listed allowing settings to be confirmed and revised easily!

## Dialog Box P.20

The easy-to-see display makes it simple to complete your settings!

### Simulator P.25

Check operations with a single click!

### Library P.20 **Upgrade**

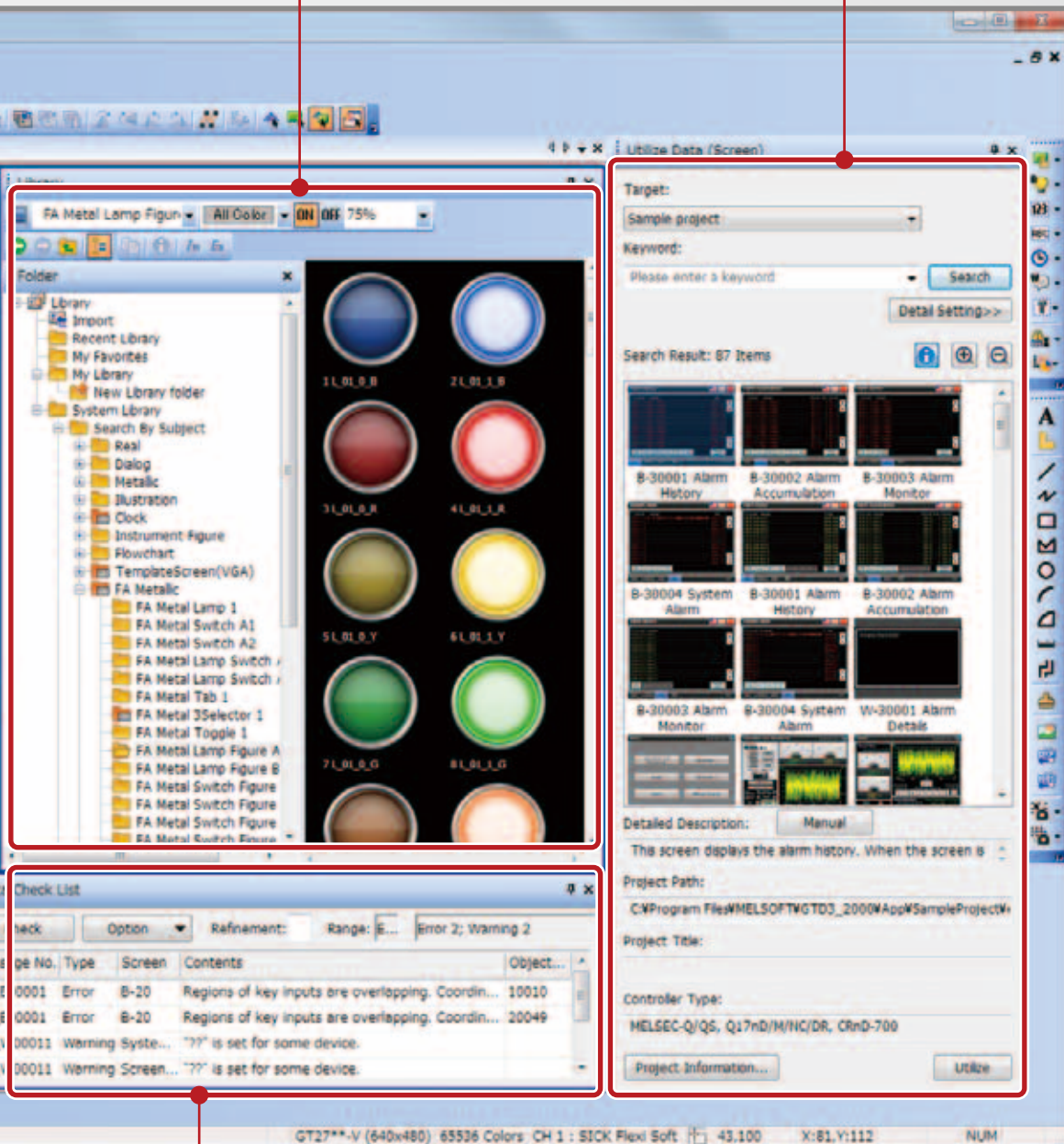
Easily create beautiful screens!

### Utilize Data Function P.10 **NEW**

Search through existing screen assets with keywords and effectively use data!

### Sample Projects P.12 **NEW**

A variety of samples are available for use!



### Data Check List P.22 **NEW**

Identify errors quickly!

**GOT2000**

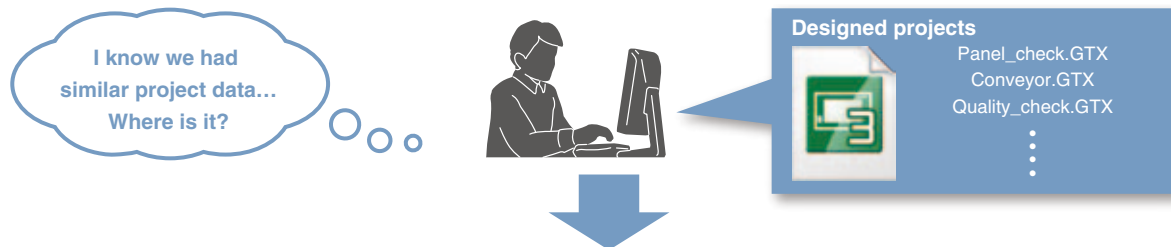
Functions with this mark are supported only with GOT2000.

**GOT2000  
GOT1000**

Functions with this mark are supported with both GOT2000 and GOT1000.

## Reuse existing screens to increase efficiency!

Use keywords to search for screens from past projects or the provided sample projects. Simply select the applicable data to import and reuse in a new project.



### Reuse previous projects

When creating a new project, search through the existing projects to find any existing projects that may be reused. Keyword search helps narrow down the search.

**Specify search range**  
Select "Sample Project" to reuse a sample project

**Select or input a keyword**  
Select a prepared keyword or input an arbitrary keyword

**Search results are displayed**

**Choose the applicable project from the search result.**

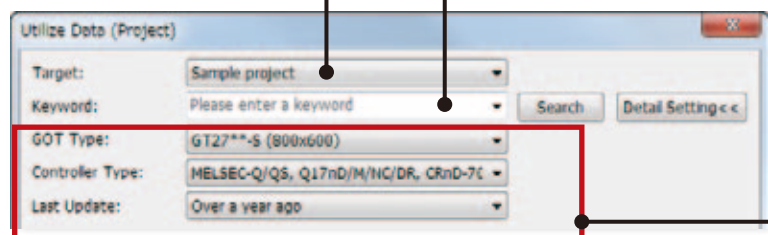
Procedure: [Project] → [New] → [Utilize Data]

#### Search target

The search range can be designated.

- Sample project ⇒ P.12
- Recently edited project
- Project folder (Search folders up to three levels below)

Always using the same folder to save GOT projects will make searches easier.



Sample projects are available for use with the utilize data function. See page 12 for more information.



### Sample projects



Alarm-Sort\_V\_Ver1\_E.GTX  
 Recipe\_V\_Ver1\_E.GTX  
 MITSUBISHI\_FR-A700\_V\_Ver1\_E.GTX  
 ...



I want to reuse existing  
 screen data to  
 quickly create a screen...

## Reuse previous screens

Reuse individual screens from past or sample projects. The settings, such as comments and logging settings, are also applied and reused.

**Specify search range**  
 Select "Sample Project" to reuse a sample project

**Select or input a keyword**  
 Select a prepared keyword or input an arbitrary keyword

**Search results are displayed**

**Associated settings**  
 Associated settings such as comment data, logging settings, and window settings can be reused at the same time!

**Just drag and drop to easily apply associated settings to your screen.**

Procedure: [Screen] ⇒ [New] ⇒ [Utilize Data]

Shortcut keys: Ctrl + Shift + F

### Search keywords

Select a prepared keyword or input an arbitrary keyword to search the data. When utilizing a project, the entered keyword is searched from the file name and project information (project title, detailed description, created by).

When creating a project, input character strings and explanations that can be used as keywords in the project information. This will make subsequent searches easier!

When utilizing a screen, the entered keyword is searched from the file name, screen name, detailed description on screen, object name, figure name and template name.

### Refined search

Refine the search by the GOT type, controller type and last update to quickly find the data you want to utilize.

## Variety of sample projects available for use with utilize data function

A variety of sample projects for frequently used functions, for monitoring connected devices and setting parameters are available.

Easily create project data to match your purpose and application.

### Sample projects to make it easy to use GOT's convenient functions

Alarm



Recipe

### Sample projects for monitoring connected devices and setting parameters, etc.

Programmable controller



Inverter



Temperature controller



Simple motion



Q motion



Servo



## Sample projects for confirming device and network status

Device monitor



CC-Link network monitor



Signal towers



AnyWireASLINK

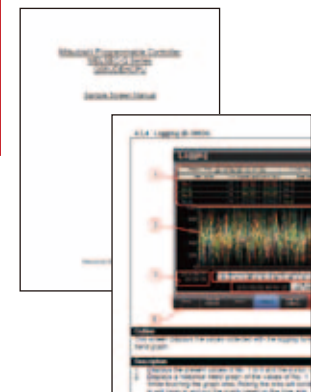


### Using sample projects

- ① Select "Sample Project" as the Target on the Utilize Data screen.
- ② Select or input (arbitrary) a keyword.
- ③ Select from the search results, and press the Utilize button.



The sample project details and usage methods will appear.





## Quick and easy device settings!

**NEW** Input Assist

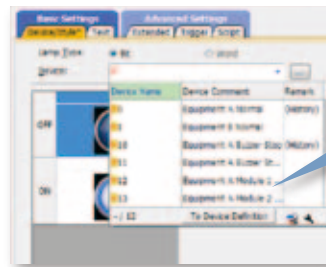
GOT2000

When setting devices, the list of utilizable data is displayed from the preset devices or from the device comments and device definitions.

### Displaying utilizable data from preset devices

The list of utilizable devices are displayed when the device name is input in the device setting dialog.

The device comments and device definitions are also displayed, so that this information can be referred to when setting devices.



① Input device name

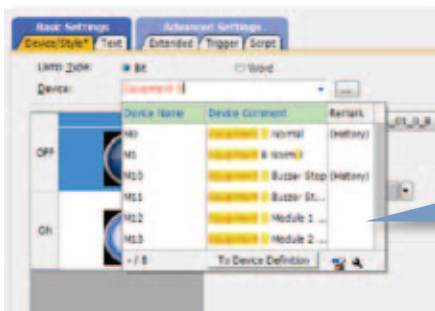
② Devices corresponding to the input device name are displayed from the device preset in the project or from the history of recently set devices.

③ Select a device from the list and set the device.

### Displaying utilizable data from device comments and device definitions

When a keyword is input in the device setting dialog, the list of utilizable devices is displayed. Search for and set the devices from the device comments and device definitions.

<Example of device comments>



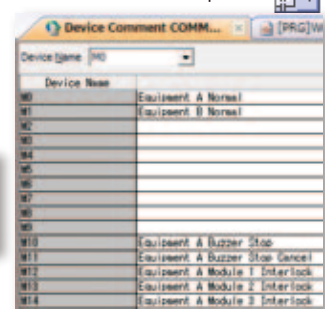
① Import comment files

② Input a keyword

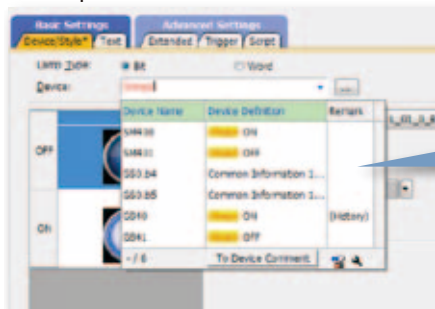
③ Devices corresponding to the input keyword are displayed from the device comments set with GX Works2.

④ Select from the list and set the device

Device comments set with GX Works2/GX Developer



<Example of device definitions>



① Input a keyword

② Devices corresponding to the input keyword are displayed from the GOT internal device function names or the device definitions about special devices of connected device (servo, programmable controller, etc.).

③ Select "GB40 Always ON"

④ Device setting is completed!



- **Search target**

Select from "Device Name and Comment/Definition", "Device Name" or "Comment/Definition".

- **Input keywords**

Separate keywords with a single space to search and refine the data with multiple keywords.

Connected channels can be specified with "@n" (n=1 to 4). (For Ch2 M0: @2 M0)

🕒 Procedure: [Automatically display when inputting devices](#)

## Information right at your fingertips!

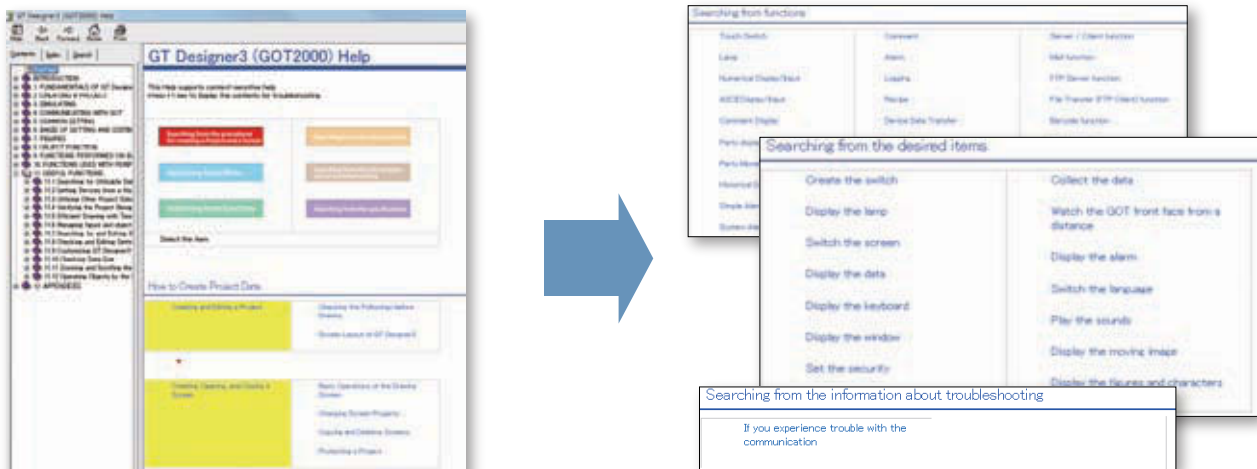
Upgrade Help

GOT2000  
GOT1000

Quickly search for the information you need with the powerful help function.

### Various searching methods to match your situation (GOT2000 only) **NEW**

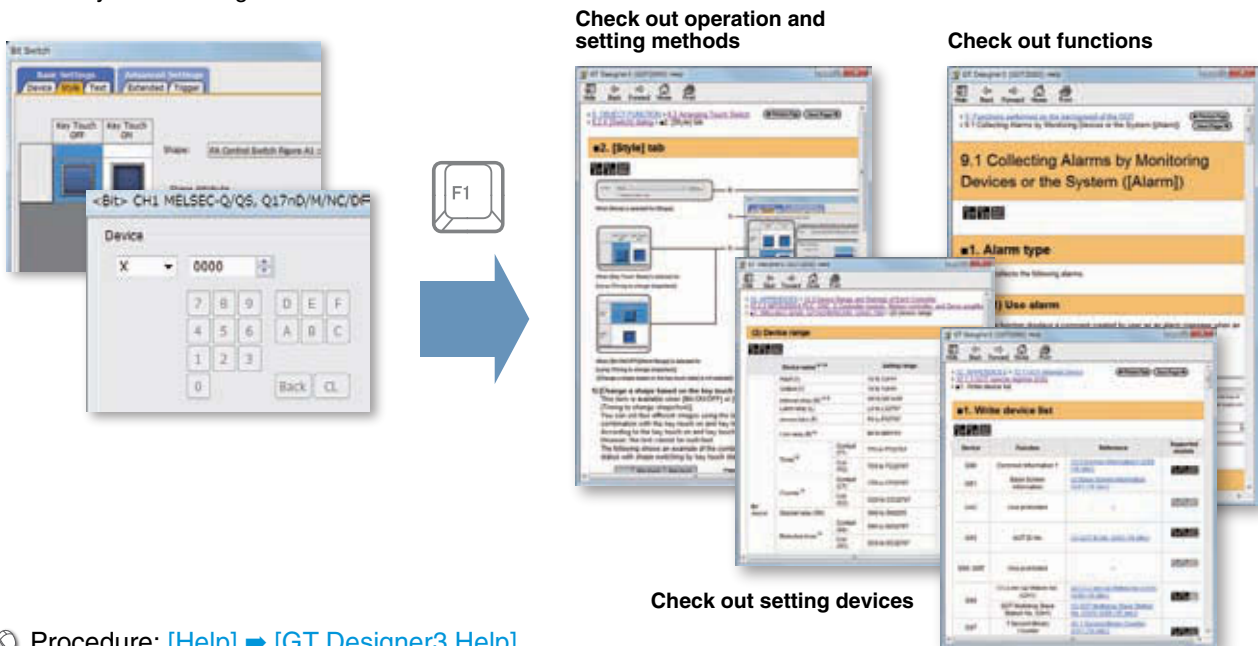
Search for information with the function name, specifications or with phrases on information you need or are having trouble with.



### Quickly confirm with F1 key

Press the F1 key and jump to help for the dialog being edited!

Quickly check setting methods and other information!



Procedure: [Help] ➔ [GT Designer3 Help]

Shortcut key: F1

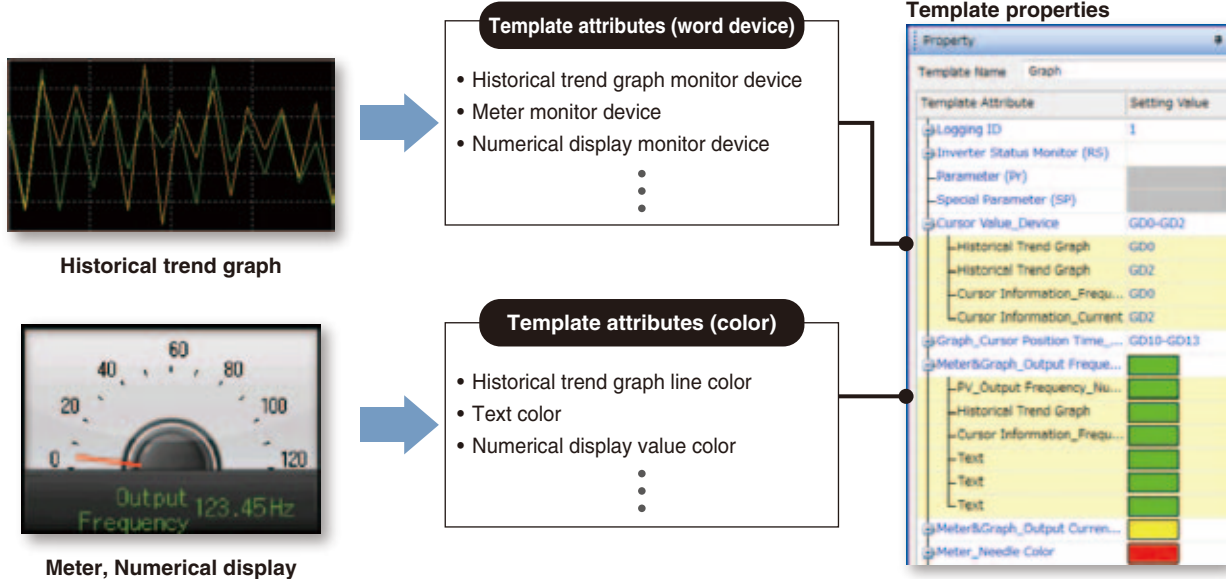
## Use templates to greatly reduce your screen creation time!

Customize each template to the desired look-and-feel, ranging from color options to device selection.



### What are templates?

Attributes such as devices and colors can be set for each template. You can easily change devices and colors by associating each object with the template's attribute.

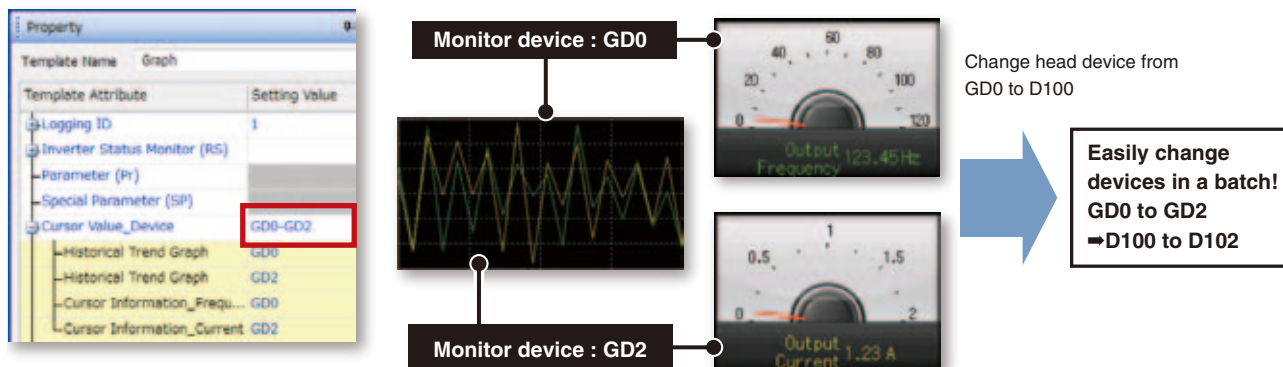


Templates are also set in the sample projects available for use with the utilize data function. See pages 10 to 13 for more information.



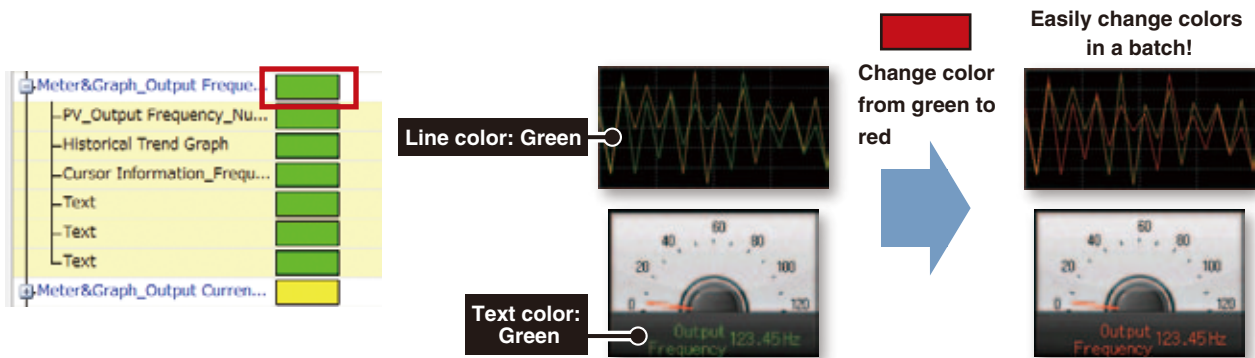
## Changing devices

Devices can be changed in a batch just by setting the head device.



## Changing colors

Colors can be changed in a batch.



Numerical value, Text, Figure, Font, Text size can also be changed.

- **Items that can be registered in templates**  
Figure, Object
- **Attributes that can be registered and changed in templates**  
Device (Bit, Word), Numerical value, Text, Color, Figure, Font, Text size

Selecting from library    Procedure: [View] ➔ [Docking Window] ➔ [Library List (Template)]  
Shortcut key: Alt + F9

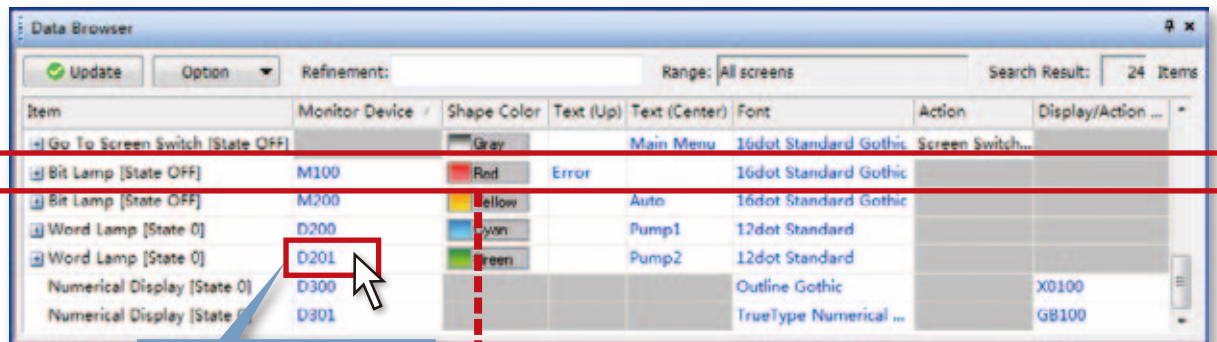
Creating a template    Procedure: Select object ➔ Right click ➔ [Template Registration]

## Efficiently edit data on multiple screens!

Data Browser

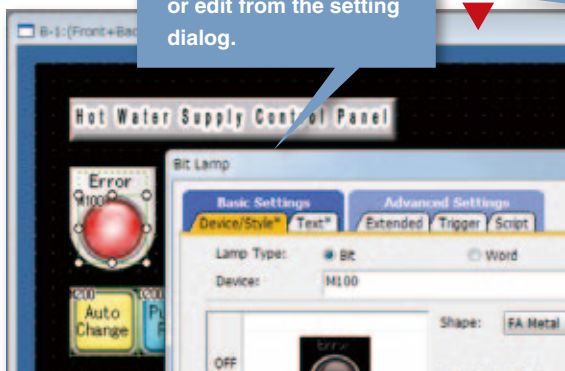
GOT2000  
GOT1000

The data browser shows a list of objects used in the project. The settings can be edited directly on the browser or by opening a setting dialog. You can easily identify any duplicate data and no longer have to open multiple screens.

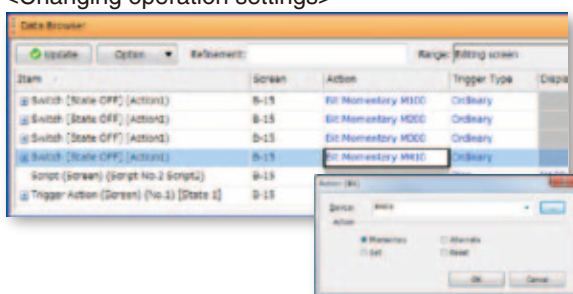


Directly edit on the list,  
or edit from the setting  
dialog.

Double-click



<Changing operation settings>



### ● Display targets

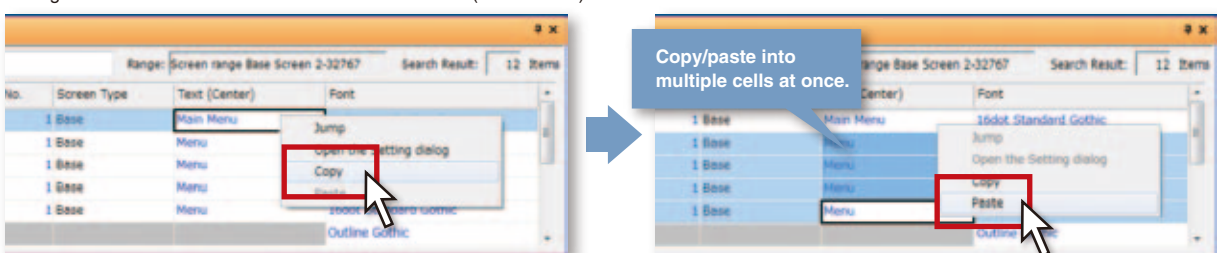
Figures, objects, screen scripts, screen trigger actions

### ● Editable details

Directly edit devices and text, etc.  
Change devices, text and colors in a batch  
Change action settings and fonts  
Copy/paste multiple cells  
Sort and narrow down items by using devices/  
keywords  
Sort with multiple columns  
Interchange columns with drag & drop

<Copying or pasting multiple cells>

Change names of Go To Screen switches to Main Menu (screen No.1) from "Menu" to "Main Menu" on all screens.



Copy/paste into  
multiple cells at once.

Procedure: [View] ➡ [Docking Window] ➡ [Data Browser]

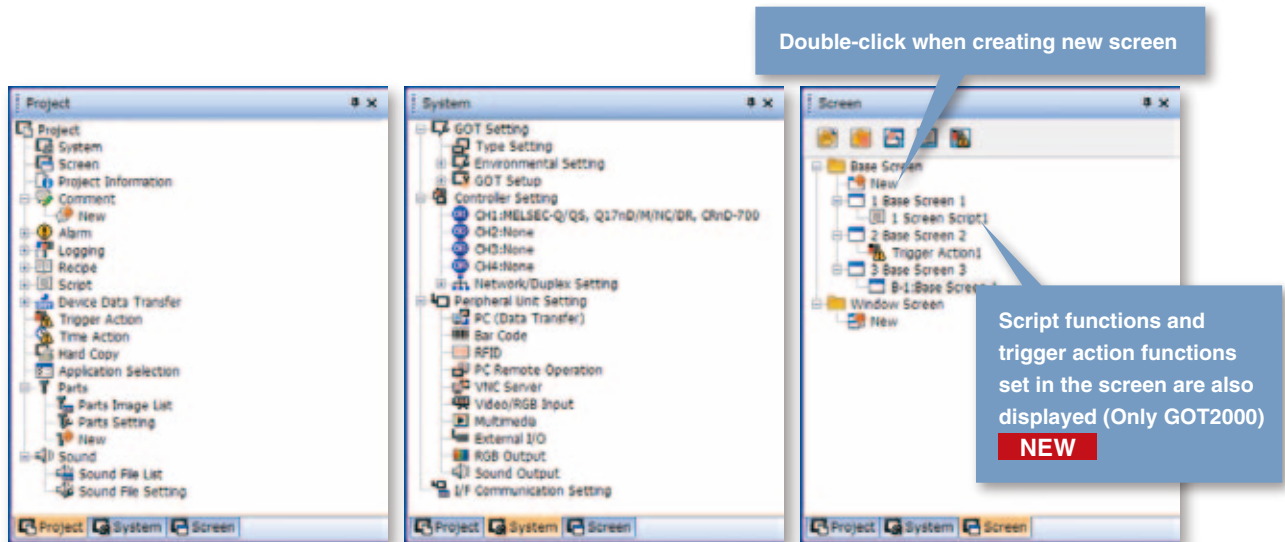
Shortcut key: **Ctrl + E**

## Easy access to setting items!

Upgrade Work Tree

GOT2000  
GOT1000

All setting items in the project are categorized into the three groups “Project”, “System” or “Screen”. Find the item you want to set quickly and easily.



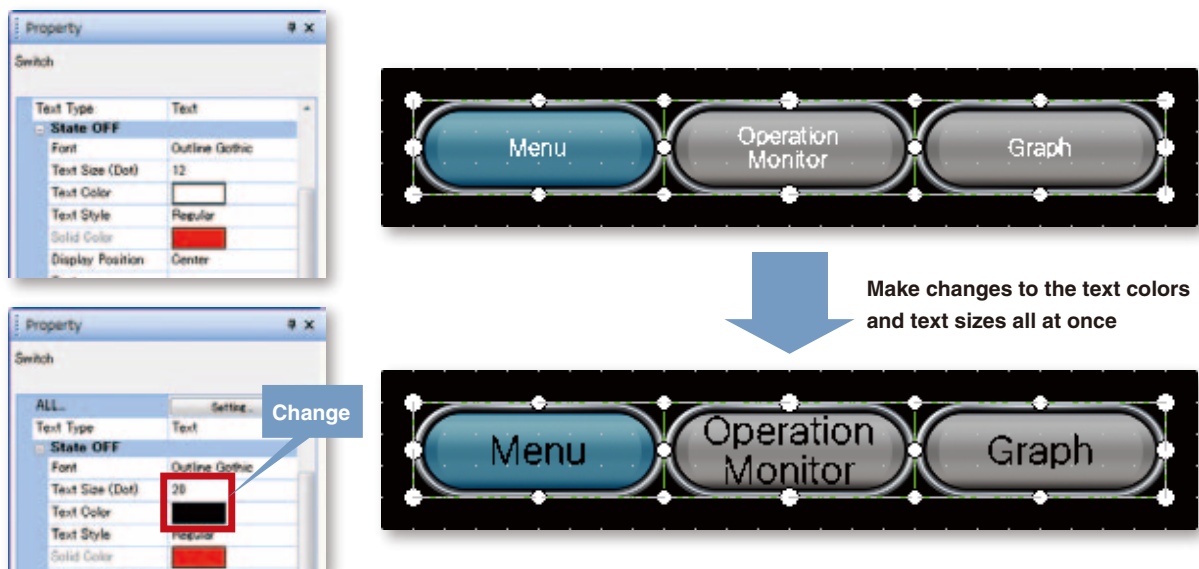
Project tree display    Procedures: [View] ➔ [Docking Window] ➔ [Project Tree]  
Shortcut key: Alt + 0

## Easily check and make batch changes!

Property Sheet

GOT2000  
GOT1000

Once an object or figure is selected, its settings are displayed on the work tree. This eliminates the need to open separate dialogs to set colors, devices, and other settings. These settings can also be changed all at once if multiple objects and figures are selected.



Procedures: [View] ➔ [Docking Window] ➔ [Project Tree]  
Shortcut key: Alt + 1

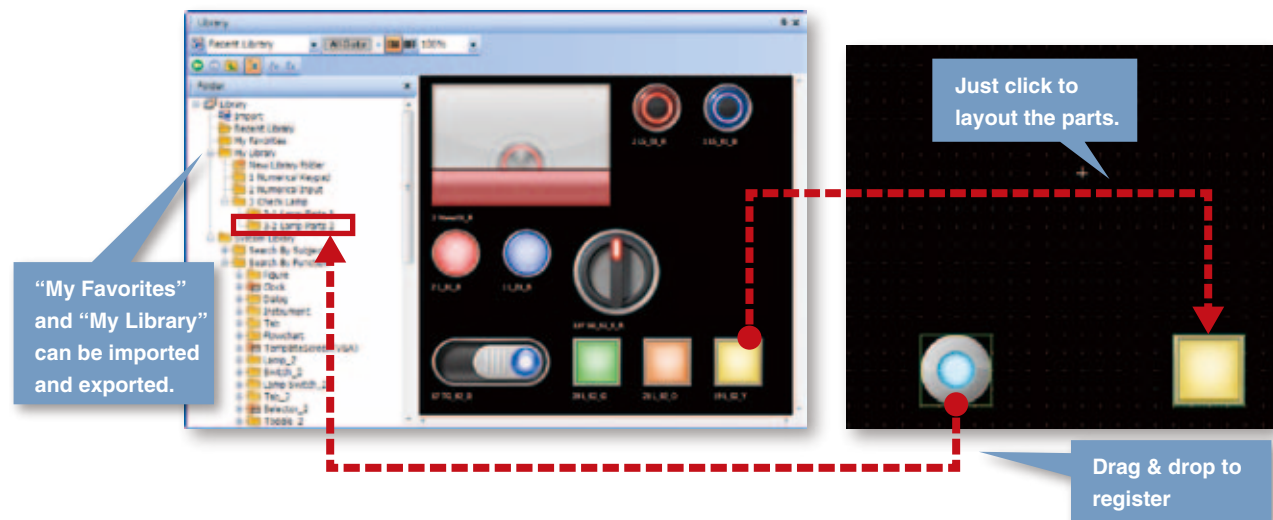
## Quickly find the screens and parts you need!

Library

GOT2000  
GOT1000

Use the easy-to-view tree display to select screens and parts from the “Subject”, “Function”, “Recent Library” or “My Favorites”.

User-created parts can be shared on other personal computers allowing screen assets to be used effectively.



Library list display      Procedures: [View] ➔ [Docking Window] ➔ [Library List]

Shortcut key: F9

Library list (template) display      Procedures: [View] ➔ [Docking Window] ➔ [Library List (Template)]

Shortcut key: Alt + F9

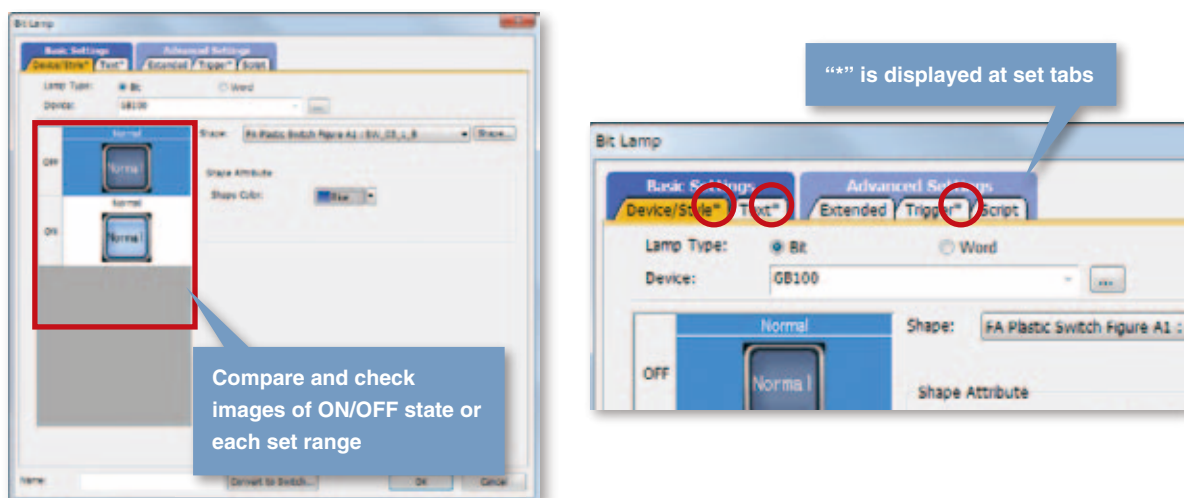
## View set sections in a glance!

Dialog Box

GOT2000  
GOT1000

Perform intuitive settings and operations with the easy-to-understand terms and display items.

An asterisk (\*) is displayed at set tabs allowing you to identify in which section settings have been modified.



Dialog box display      Procedure: Select object ➔ double-click or select object ➔ Alt + Enter

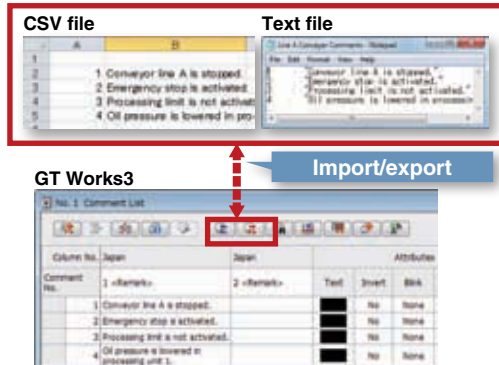


## Improve the comment input efficiency!

Interaction with  
Other Applications

GOT2000  
GOT1000

Interact with other applications and quickly input comments.

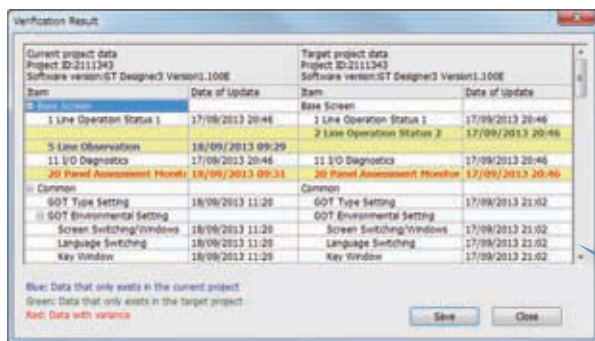


- Import/export CSV/Unicode® text file format data
- Copy & paste from Microsoft® Excel® or GX Works2 to GT Works3

## Quickly identify differences in the data! Upgrade Data Verification

GOT2000  
GOT1000

Verify the project data.



- **Verification with GOT**  
Compare the project data in the GOT and personal computer.
- **Project verification**  
Compare project data being edited on the personal computer with data for a different project.

Even details of common settings can be compared in detail. (Only GOT2000) **NEW**

Procedure: [Project] ➔ [Verify Data]

## Easily create specifications!

Printing Function

GOT2000  
GOT1000

The cover, screen images and the list of set devices, etc., can be printed or output to a file making it simple to create specifications and operation manuals.



Procedure: [Project] ➔ [Print]

Shortcut key: **Ctrl + P**

## Identify errors quickly!

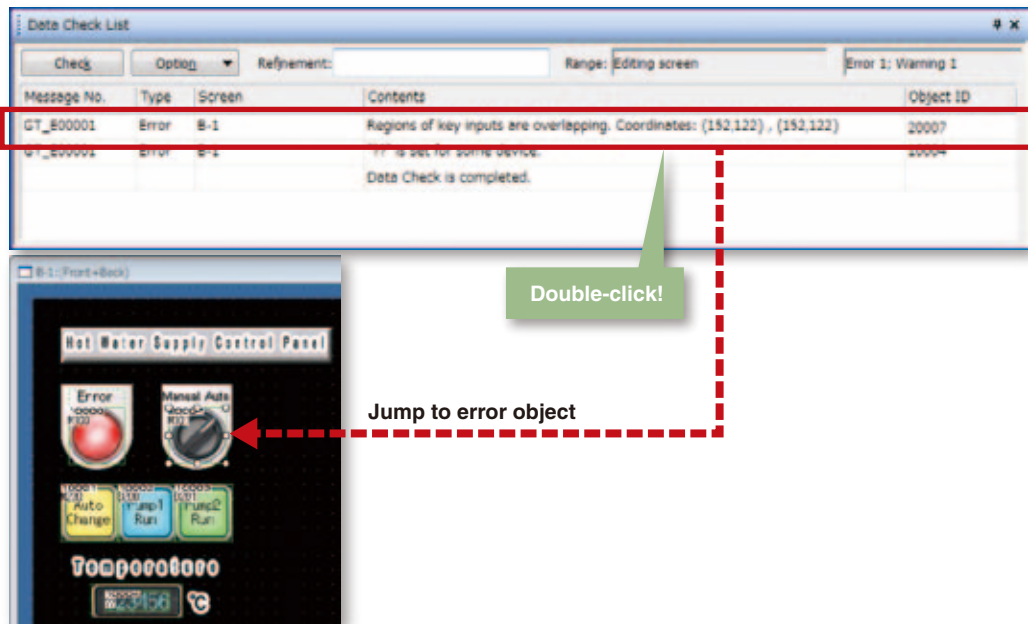
**NEW** Data Check List

GOT2000

The touch switch quantity and overlapping state, object quantity and illegal devices are checked and the results are displayed as a list.

Double-click on an error or warning line to jump to the corresponding object.

Quickly identify errors and warning objects.



Procedure: [View] ➔ [Docking Window] ➔ [Data Check List]

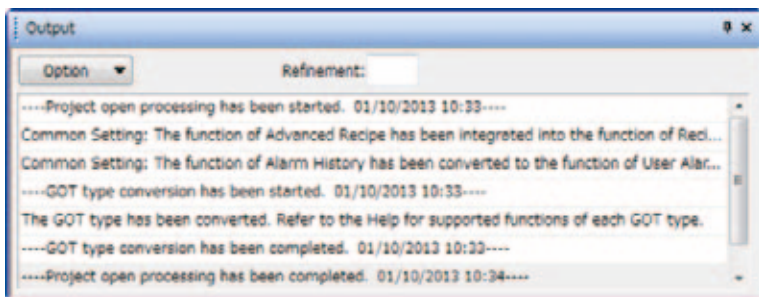
## Notify the data processing state and errors

**NEW** Output Window

GOT2000

Messages indicating the progress of processes such as the GOT type conversion and utilizing other projects, errors and warnings are displayed as a list.

Any incompatible functions found are displayed as warnings when opening the project data edited with a newer version of screen design software with an older version software.



Procedure: [View] ➔ [Docking Window] ➔ [Output]

## Send data with a single click!

**Upgrade** Data Transfer

GOT2000  
GOT1000

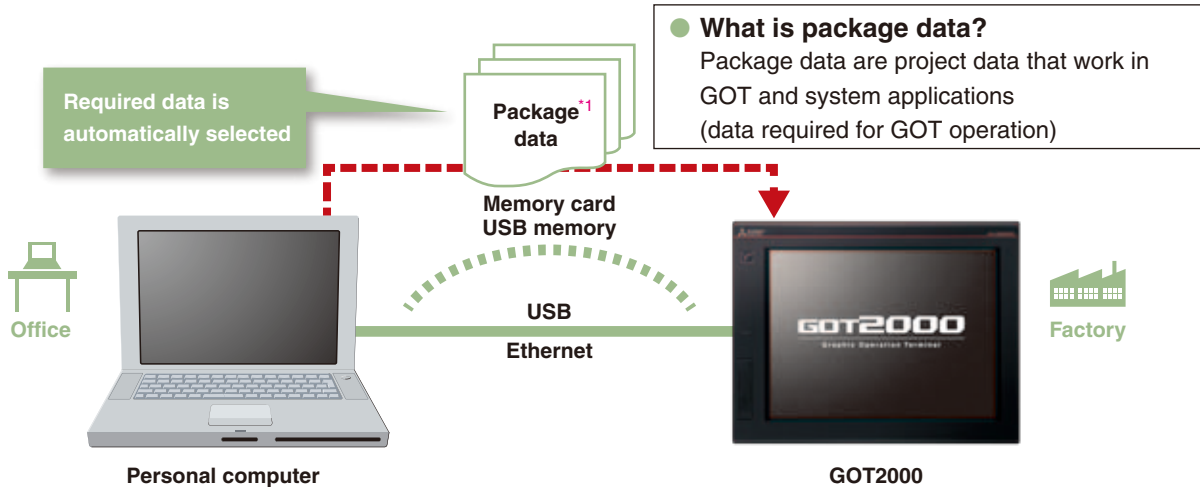
Easily send project data just by clicking the GOT write button.

Automatically select the necessary data according to the project data.

In addition to directly sending data from the personal computer to the GOT, it can also be sent via the programmable controller. (Only GOT2000) **NEW**

### Automatically select necessary data according to the project data

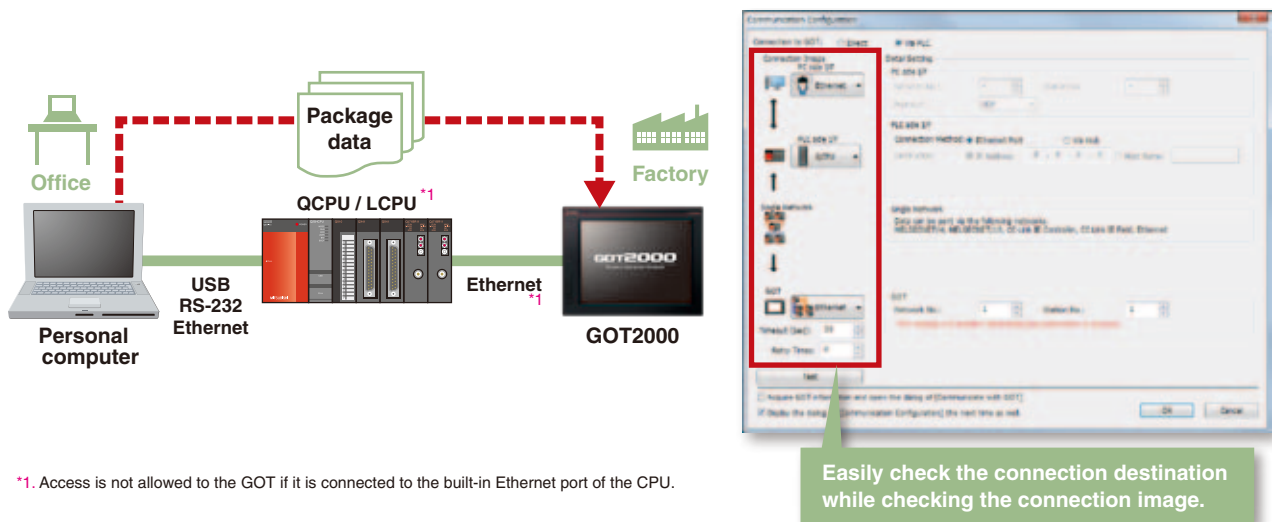
Since the data required for the project data is automatically selected, it can be easily sent with a single click.



<sup>\*1</sup>. With GOT1000, the project data and required OS are transferred.

### Transfer data even via the programmable controller (Only GOT2000) **NEW**

Send data from the personal computer to the GOT via the programmable controller.



<sup>\*1</sup>. Access is not allowed to the GOT if it is connected to the built-in Ethernet port of the CPU.

Procedure: [\[Communication\]](#) ➔ [\[Write to GOT\]](#)

Shortcut key: **Shift + F11**

## Easy simulations!

## Screen Preview

GOT2000  
GOT1000

Use the screen preview function to check the state of screen switching and the display status of lamps and switches, etc.

Screen images can be printed or saved as bitmaps, making it easy to create specifications and operation manuals.

<Confirming Go To Screen switches>



<Switching lamp/switch display (ON/OFF)>

OFF

ON

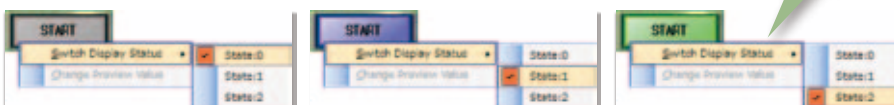


<Switching lamp/switch display (states)>

State 0

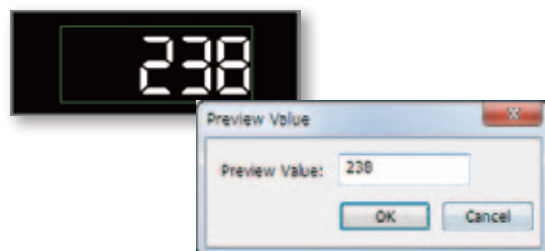
State 1

State 2



Alt key + click (next State) or  
Shift key + click (previous State)  
can also be used to change the State.

<Changing numerical display/input preview value>



Procedure: [View] ➔ [Preview]

Shortcut key: Ctrl + I



## Check operations with a single click!

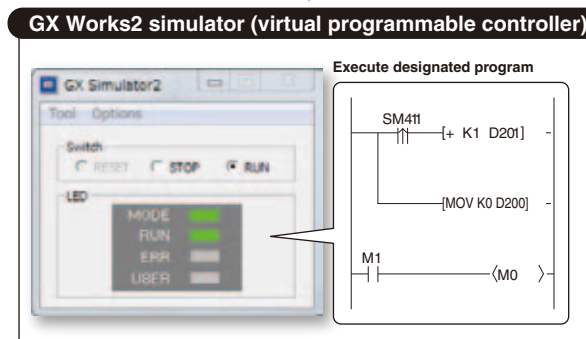
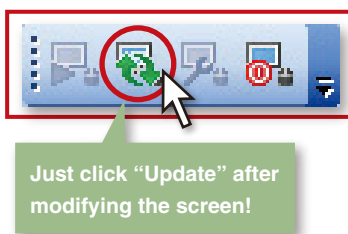
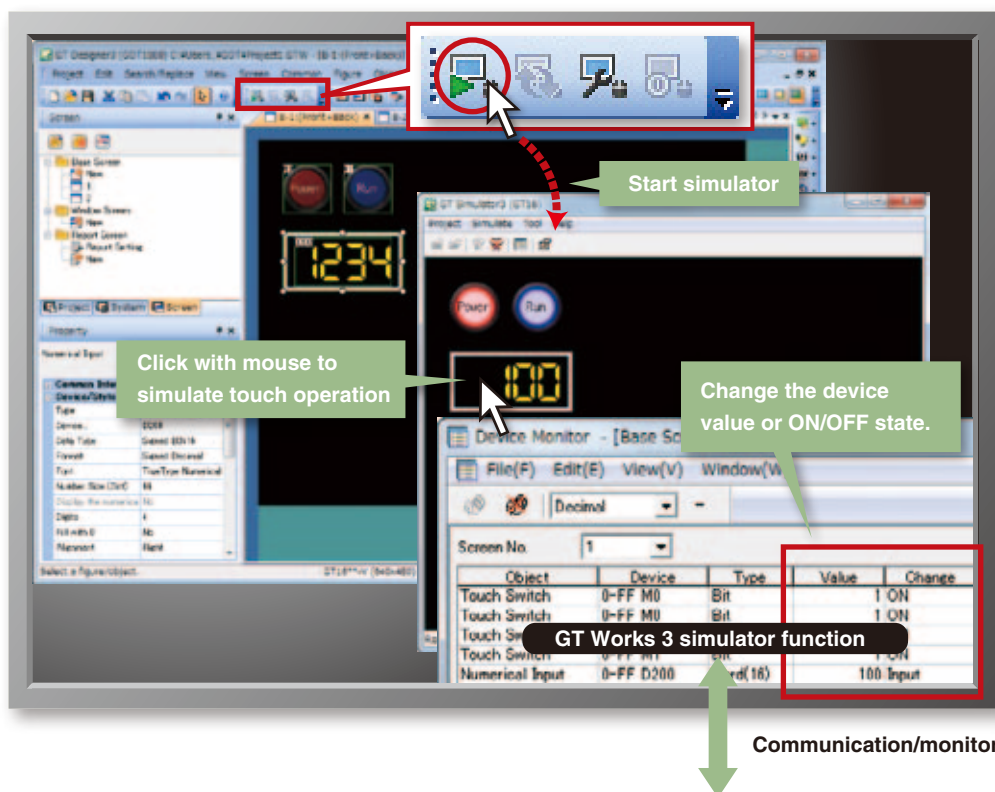
Simulator

GOT2000  
GOT1000

Since the operation of the project data can be confirmed on the personal computer, the program can be efficiently debugged while making changes on the screen. Even if an actual machine is not available, the operations can be confirmed with a personal computer and sequence programs.

The screen images can be printed and saved, and easily used when creating specifications and operation manuals.

- \* GX Works2 or GX Simulator is required separately.
- \* The GOT2000 device monitor is coming soon.



- Procedures: [Tool] ➔ [Simulator] ➔ [Activate]
- Shortcut key: **Ctrl + F10**

## Prevent your valuable data from being leaked or changed

**Upgrade Security**

GOT2000  
GOT1000

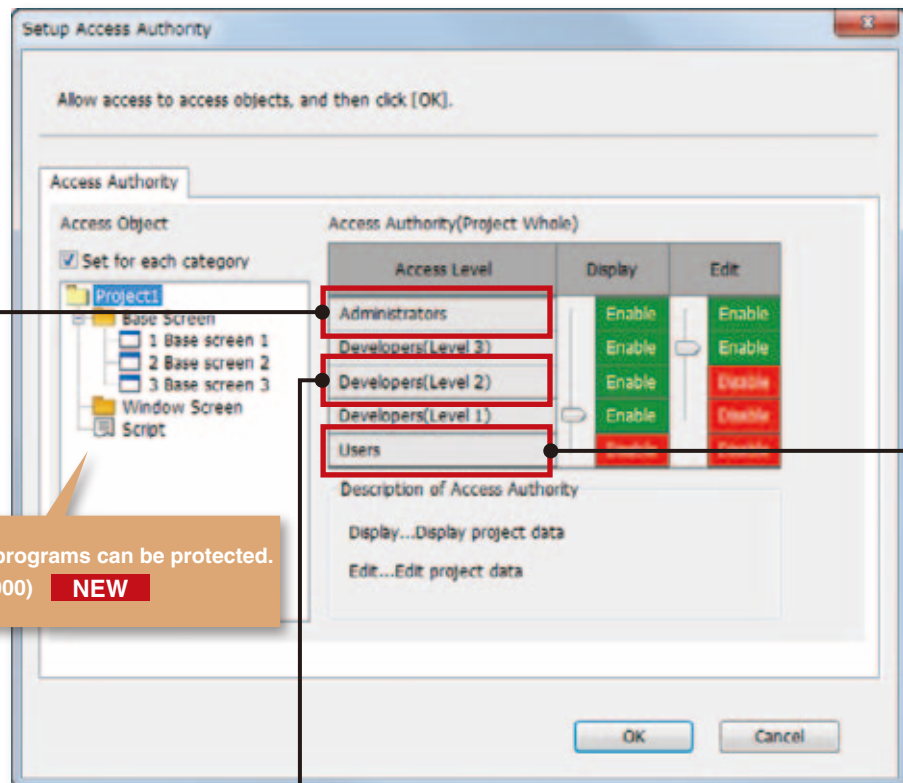
**Users having access to project data can be restricted.**

**Prevent illegal editing of project data by setting access authority (display/edit) for each user.**

**Access authority can be set for each project or each screen.**

\* Project data having security set with GT Works3 Version 1.45X or later cannot be handled with a version older than GT Works3 Version 1.45X.

Even script programs can be protected.  
(Only GOT2000) **NEW**



### Maintenance personnel (Administrators)



This data is too important  
to be changed needlessly.

Open project

Edit project

### Screen designer (Developers (Level2))



This data can be confirmed.

Open project



Edit project

### User (Users)



This data cannot be confirmed.



Open project



Edit project

\* A password for transferring data with the GOT can also be set.

Procedure: [Project] ➔ [Security]

### Further reduce total costs

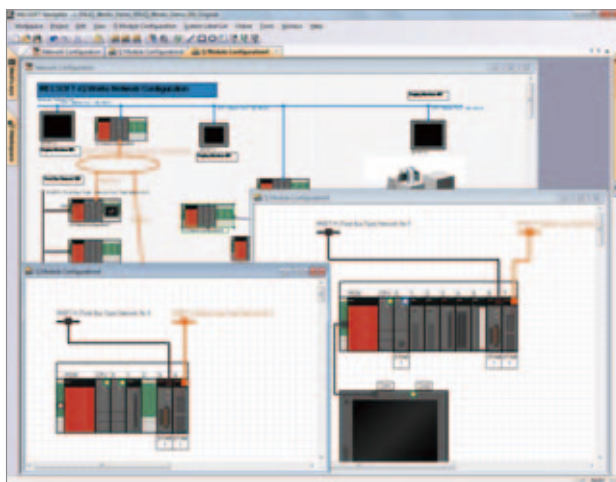
### MELSOFT iQ Works

GOT2000  
GOT1000

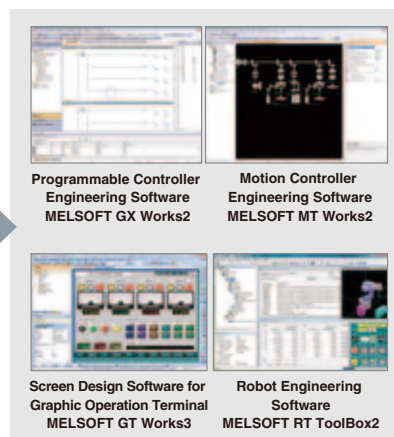
MELSOFT iQ Works suite integrates the engineering software (GX Works2, MT Works2, GT Works3, RT ToolBox2). The system designing efficiency and programming efficiency are improved and total costs are reduced by sharing the designing information, including system design and programming, for the entire control system.

#### MELSOFT Navigator

MELSOFT Navigator, along with GX Works2, MT Works2, GT Works3, and RT ToolBox2, facilitates system level design and acts as the interface between each software. Useful functions include design of system configuration, parameter batch setting, system labels, and batch read.



MELSOFT Navigator



#### No need to set parameters for each tool

The information set in the system configuration diagram can be applied in a batch to each program in GX Works2, MT Works2, and GT Works3. \*1

There is no more need to start up each software and check the consistency.

\*1. Detailed parameters must be set with each tool.

#### Share labels and automatically change related projects

With MELSOFT Navigator, labels can be shared between the programmable controller, motion controller and GOT. For example, if the device assignment is changed in the programmable controller project, the changes are automatically applied to the motion controller and GOT project.

#### Mitsubishi FA Integration Concept

**iQ Platform**

**Solution for radically resolving various FA challenges from a point of TCO\*...**  
That is "iQ Platform". Advanced technologies are integrated, optimized and innovated to reduce costs in development, production and maintenance.

\* TCO: Total Cost of Ownership

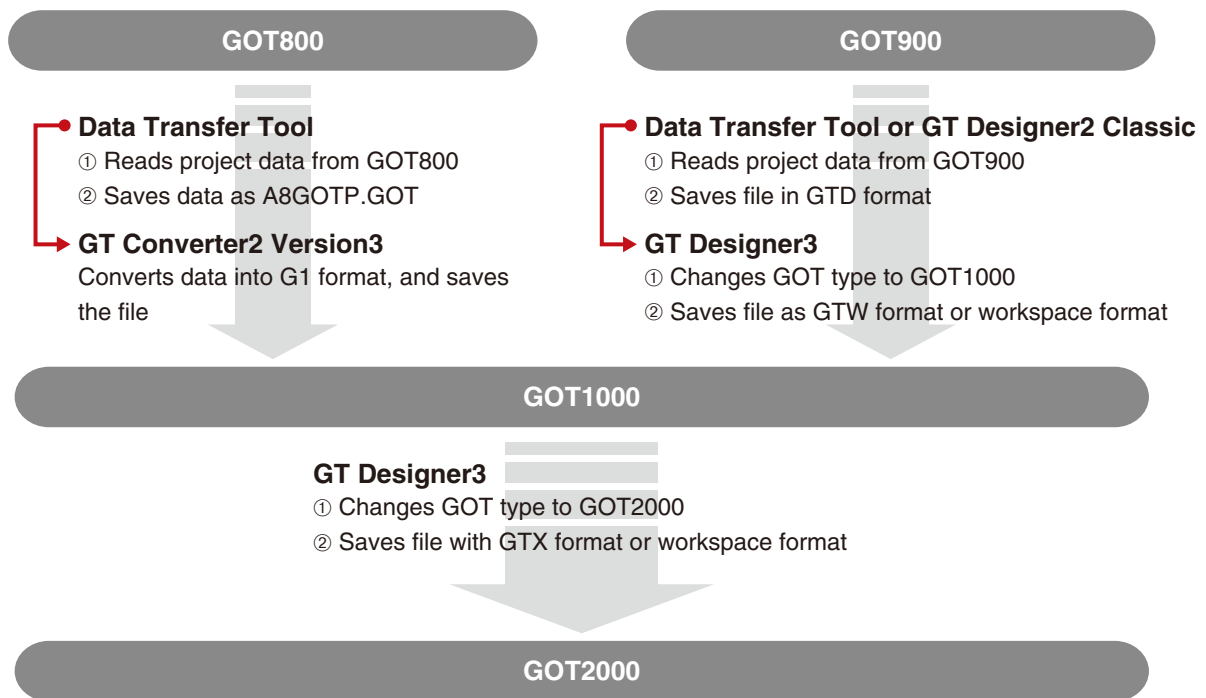
improved Quality / intelligent & Quick / innovation & Quest

## Effectively use screen assets!

## Project Data Utilization

GOT2000  
GOT1000

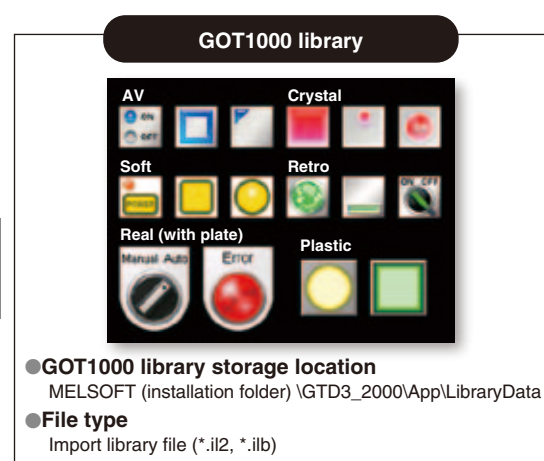
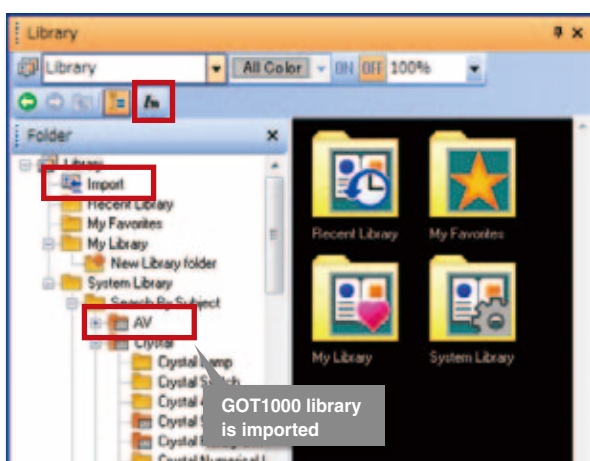
Existing project data can be utilized allowing your valuable screen assets to be used effectively.



## Utilize library data used with GOT1000! Library Data Utilization

GOT2000  
GOT1000

Library data and template data for GOT1000 can be imported into the GOT2000's system library. Design new screens for GOT2000 while inheriting the screen images for existing models.

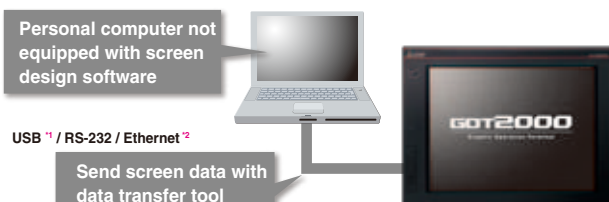




### Easily transfer data from existing models! Data Transfer Tool

GOT2000  
GOT1000

Project data can be transferred from a personal computer that is not equipped with the screen design software. (The tool is included with GT Works3.)



\*1. GOT2000 and GOT1000 only

\*2. GOT2000 and GOT1000 (GT16/GT15/GT14) only

- **Target GOT**  
GOT2000, GOT1000, GOT900, GOT800
- **Target data**  
Project data  
Resource data (GOT2000, GOT1000 only)
- **Compatible OS**  
Microsoft® Windows® 8, Microsoft® Windows® 7,  
Microsoft® Windows Vista®, Microsoft® Windows® XP,  
Microsoft® Windows® 2000

### Effectively use screen assets! GT Converter2

GT Converter2

Convert GOT800 Series project data into GT Works3 compatible data. (Included with GT Works3)



- **Supported screen design software**  
GOT800 Series screen design software  
(SW3NIW-A8GOTP)  
Digital Electronics Corporation screen design software  
(GP-PRO/PB III Series)

\* There are some data and functions that cannot be converted.

### GOT900 Series screen design software

GT Designer2 Classic

Read, write and edit the GOT900 Series project data.



# Operating Environment/Product List

## MELSOFT GT Works3 (English Version) operating environment

Item	Specifications
Model	Personal computer that Windows® runs on.
OS (English, Simplified Chinese, Traditional Chinese, Korean, German versions)	Microsoft® Windows® 8 (Enterprise, Pro) (32 bit, 64 bit) <sup>*1*2*4*5*6</sup>
	Microsoft® Windows® 8 (32 bit, 64 bit) <sup>*1*2*4*5</sup>
	Microsoft® Windows® 7 (Ultimate, Enterprise, Professional, Home Premium) (32 bit, 64 bit) <sup>*1*2*3*4</sup>
	Microsoft® Windows® 7 Starter (32 bit) <sup>*1*2</sup>
	Microsoft® Windows Vista® (Ultimate, Enterprise, Business, Home Premium, Home Basic) (32 bit) Service Pack1 or later <sup>*1*2</sup>
	Microsoft® Windows® XP (Professional, Home Edition) (32 bit) Service Pack2 or later <sup>*1*2</sup>
	Microsoft® Windows® 2000 Professional Service Pack4 or later <sup>*1</sup>
CPU	1GHz or faster recommended
Memory	For Windows® 8(64 bit), Windows® 7(64 bit): 2GB or more recommended
	For Windows® 8(32 bit), Windows® 7(32 bit), Windows Vista®(32 bit): 1GB or more recommended
	For Windows® XP, Windows® 2000: 512MB or more recommended
Display	Resolution XGA (1024 × 768 dots) or higher
Hard disk space	For installation: 2GB or more recommended
	For execution: 512MB or more recommended
Display color	High Color (16 bits) or higher
Other hardware	Use the hardware compatible with the above OS. For installation: mouse, keyboard, DVD-ROM drive, or CD-ROM drive For execution: mouse, keyboard For printing: printer Use the following hardware when required For simulation (Only when outputting the buzzer sound): Sound card, speaker
Applicable GOT	GOT2000 series, GOT1000 series
Applicable software version	GT Works3 Version 1.100E or later

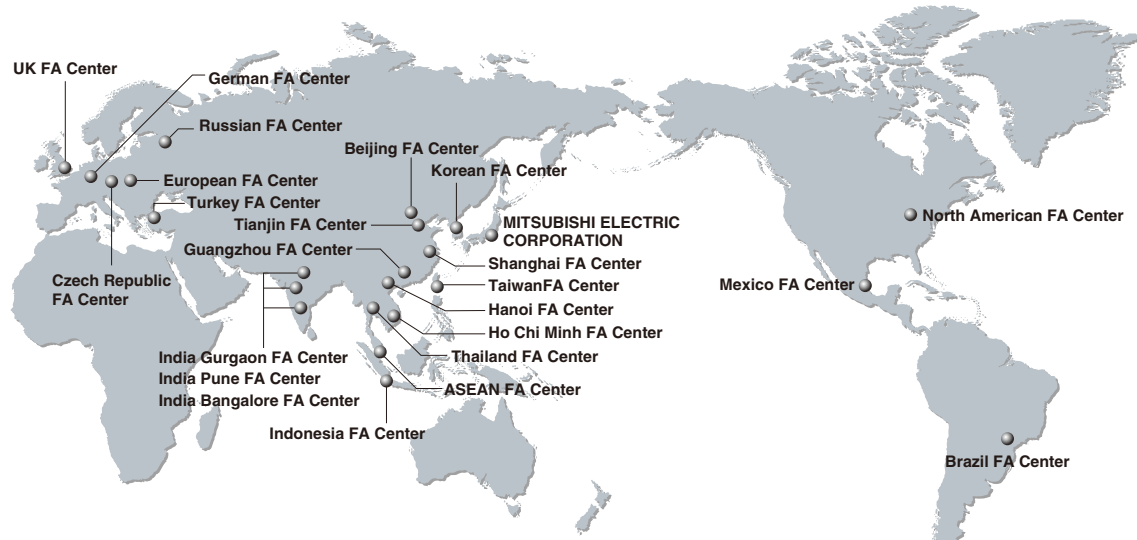
- <sup>\*1</sup> For installation, the administrator authority is required.  
For Windows® 8, Windows® 7 and Windows Vista®, the standard user or administrator account is required.  
To interact GT Designer3 with other MELSOFT applications which are used under the administrator authority, use GT Designer3 under the administrator authority.
- <sup>\*2</sup> The following functions are not supported.
- Application start in Windows® compatibility mode
  - Fast user switching
  - Change your desktop themes (fonts)
  - Remote desktop
  - DPI setting other than the normal size (For Windows® XP and Windows Vista®)
  - Setting the size of texts and illustrations on the screen to any size other than [Small-100%] (For Windows® 7 and Windows® 8)
- <sup>\*3</sup> Windows XP® Mode is not supported.
- <sup>\*4</sup> Windows® Touch is not supported.
- <sup>\*5</sup> Modern UI Style is not supported.
- <sup>\*6</sup> Hyper-V is not supported.

## Product list

Product name	Model name	Contents		
HMI screen design software MELSOFT GT Works3 <sup>*1</sup>	SW1DND-GTWK3-E	English Version	Standard license product	DVD-ROM
	SW1DND-GTWK3-EA		Volume license product <sup>*2</sup>	
	SW1DND-GTWK3-EAZ		Additional license product <sup>*2 *5</sup>	
FA Integrated Engineering Software MELSOFT iQ Works <sup>*1 *3 *4</sup>	SW1DND-IQWK-E	English Version	Standard license product (Version1.77F or later)	DVD-ROM

- <sup>\*1</sup> CD-ROM product is also available. For inquiries, please contact your local sales office.
- <sup>\*2</sup> The desired number of licenses (2 or more) can be purchased. For details, please contact your local sales office.
- <sup>\*3</sup> Volume license product and additional license product are also available. For more details, please refer to the MELSOFT iQ Works catalog (L(NA)08232).
- <sup>\*4</sup> The product includes the following software.
- System Management Software [MELSOFT Navigator]
  - Programmable Controller Engineering Software [MELSOFT GX Works2]
  - Motion Controller Engineering Software [MELSOFT MT Works2]
  - Servo Setup Software [MELSOFT MR Configurator2]
  - Screen Design Software for Graphic Operation Terminal [MELSOFT GT Works3]
  - Robot Programming Software [MELSOFT RT ToolBox2 mini]
- <sup>\*5</sup> This product does not include the DVD-ROM. Only the license certificate with the product ID No. is issued.

## Global FA Centers



### China Mainland

**Shanghai FA Center**  
**MITSUBISHI ELECTRIC AUTOMATION (CHINA) LTD.**  
 10F, Mitsubishi Electric Automation Center, No.1386  
 Hongqiao Road, Changning District, Shanghai, China  
 Tel: +86-21-2322-3030 / Fax: +86-21-2322-3000(9611#)

**Beijing FA Center**  
**MITSUBISHI ELECTRIC AUTOMATION (CHINA) LTD.**  
**Beijing Office**  
 Unit 908, Office Tower 1, Henderson Centre, 18  
 Jianguomennei Avenue, Dongcheng District, Beijing, China  
 Tel: +86-10-6518-8830  
 Fax: +86-10-6518-3907(B/S) +86-10-6518-2938(A/S)

**Tianjin FA Center**  
**MITSUBISHI ELECTRIC AUTOMATION (CHINA) LTD.**  
**Tianjin Office**  
 Room 2003 City Tower, No.35, Youyi Road, Hexi  
 District, Tianjin, China  
 Tel: +86-22-2813-1015 / Fax: +86-22-2813-1017

**Guangzhou FA Center**  
**MITSUBISHI ELECTRIC AUTOMATION (CHINA) LTD.**  
**Guangzhou Office**  
 Room 1609, North Tower, The Hub Center, No.1068,  
 Xingang East Road, Haizhu District, Guangzhou, China  
 Tel: +86-20-8923-6730 / Fax: +86-20-8923-6715

### Korea

**Korean FA Center**  
**MITSUBISHI ELECTRIC AUTOMATION KOREA CO., LTD.,**  
 B1F, 2F, 1480-6, Gayang-Dong, Gangseo-Gu, Seoul,  
 157-200, Korea  
 Tel: +82-2-3660-9632 / Fax: +82-2-3664-0475

### Taiwan

**Taiwan FA Center**  
**SETSUYO ENTERPRISE CO., LTD.**  
 3F, No.105, Wugong 3rd Road, Wugu District,  
 New Taipei City 24889, Taiwan, R.O.C.  
 Tel: +886-2-2299-9917 / Fax: +886-2-2299-9963

### ASEAN

**ASEAN FA Center**  
**MITSUBISHI ELECTRIC ASIA PTE. LTD.**  
 307, Alexandra Road, Mitsubishi Electric Building,  
 Singapore 159943  
 Tel: +65-6470-2480 / Fax: +65-6476-7439

### Indonesia

**Indonesia FA Center**  
**PT. MITSUBISHI ELECTRIC INDONESIA**  
 Gedung Jaya 11th Floor, JL. MH. Thamrin No.12,  
 Jakarta, Pusat 10340, Indonesia  
 Tel: +62-21-3192-6461 / Fax: +62-21-3192-3942

### Vietnam

**Hanoi FA Center**  
**MITSUBISHI ELECTRIC VIETNAM COMPANY LIMITED**  
**Hanoi Branch**  
 Unit 9-05, 9th Floor, Hanoi Central Office Building, 44B Ly  
 Thuong Kiet Street, Hoan Kiem District, Hanoi City, Vietnam  
 Tel: +84-4-3937-8075 / Fax: +84-4-3937-8076

**Ho Chi Minh FA Center**  
**MITSUBISHI ELECTRIC VIETNAM COMPANY LIMITED**  
 Unit 01 - 04, 10th Floor, Vincom Center, 72 Le  
 Thanh Ton Street, District 1, Ho Chi Minh City, Vietnam  
 Tel: +84-8-3910-5945 / Fax: +84-8-3910-5947

### Thailand

**Thailand FA Center**  
**MITSUBISHI ELECTRIC FACTORY AUTOMATION**  
**(THAILAND) CO., LTD.**  
 12th Floor, SV. City Building, Office Tower 1, No.896/19  
 and 20 Rama 3 Road, Kwaeng Bangpongpan,  
 Khet Yannawa, Bangkok 10120, Thailand  
 Tel: +66-2682-6522 to 31 / Fax: +66-2682-6020

### India

**India Pune FA Center**  
**MITSUBISHI ELECTRIC INDIA PVT. LTD.**  
**Pune Branch**  
 Emerald House, EL-3, J Block, M.I.D.C., Bhosari, Pune,  
 411026, Maharashtra State, India  
 Tel: +91-20-2710-2000 / Fax: +91-20-2710-2100

**India Gurgaon FA Center**  
**MITSUBISHI ELECTRIC INDIA PVT. LTD.**  
**Gurgaon Head Office**  
 2nd Floor, Tower A & B, Cyber Greens, DLF Cyber City,  
 DLF Phase - III, Gurgaon - 122002 Haryana, India  
 Tel: +91-124-463-0300 / Fax: +91-124-463-0399

**India Bangalore FA Center**  
**MITSUBISHI ELECTRIC INDIA PVT. LTD.**  
**Bangalore Branch**  
 Prestige Emerald, 6th Floor, Municipal No.2,  
 Madras Bank Road, Bangalore 560001, India  
 Tel: +91-80-4020-1600 / Fax: +91-80-4020-1699

### Americas

**North American FA Center**  
**MITSUBISHI ELECTRIC AUTOMATION, INC.**  
 500 Corporate Woods Parkway, Vernon Hills, IL 60061, U.S.A.  
 Tel: +1-847-478-2100 / Fax: +1-847-478-2253

### Mexico

**Mexico FA Center**  
**MITSUBISHI ELECTRIC AUTOMATION, INC.**  
**Mexico Branch**  
 Mariano Escobedo #69, Col.Zona Industrial,  
 Tlalnepantla Edo. C.P.54030, México  
 Tel: +52-55-3067-7511 / Fax: -

### Brazil

**Brazil FA Center**  
**MITSUBISHI ELECTRIC DO BRASIL COMÉRCIO E SERVIÇOS LTDA.**  
 Rua Jussara, 1750- Bloco B Anexo, Jardim Santa Cecilia,  
 CEP 06465-070, Barueri, - SP, Brasil  
 Tel: +55-11-4689-3000 / Fax: +55-11-4689-3016

### Europe

**European FA Center**  
**MITSUBISHI ELECTRIC EUROPE B.V. Polish Branch**  
 32-083 Balice ul. Krakowska 50, Poland  
 Tel: +48-12-630-47-00 / Fax: +48-12-630-47-01

**German FA Center**  
**MITSUBISHI ELECTRIC EUROPE B.V. German Branch**  
 Gothaer Strasse 8, D-40880 Ratingen, Germany  
 Tel: +49-2102-486-0 / Fax: +49-2102-486-1120

**UK FA Center**  
**MITSUBISHI ELECTRIC EUROPE B.V. UK Branch**  
 Travellers Lane, Hatfield, Hertfordshire, AL10 8XB, U.K.  
 Tel: +44-1707-28-8780 / Fax: +44-1707-27-8695

**Czech Republic FA Center**  
**MITSUBISHI ELECTRIC EUROPE B.V. Czech Branch**  
 Avenir Business Park, Radicka 751/113e, 158 00  
 Praha5, Czech Republic  
 Tel: +420-251-551-470 / Fax: +420-251-551-471

**Russian FA Center**  
**MITSUBISHI ELECTRIC EUROPE B.V. Russian Branch**  
**St. Petersburg Office**  
 Piskarevsky pr. 2, bld 2, lit "Sch", BC "Benua",  
 office 720; 195027, St. Petersburg, Russia  
 Tel: +7-812-633-3497 / Fax: +7-812-633-3499

**Turkey FA Center**  
**MITSUBISHI ELECTRIC TURKEY A.S. Umraniye Branch**  
 Serifali Mahallesi Nutuk Sokak No:5 TR-34775  
 Umraniye, Istanbul, Turkey  
 Tel: +90-216-526-3990 / Fax: +90-216-526-3995

## PLC

## MELSEC-Q Series Universal Model



Introducing the high-speed QCPU (QnUDVCPU) for faster processing of large data volumes.

- ◎Realize high-speed, high-accuracy machine control with various iQ Platform compatible controllers and multiple CPUs.
- ◎Easily connect to GOTs and Programming tools using built-in Ethernet port.
- ◎25 models from 10 k step small capacity to 1000 k step large capacity, are available.
- ◎Seamless communication and flexible integration at any network level.

### Product Specifications

Program capacity	10k steps to 1000k steps
Number of I/O points [X/Y], number of I/O device points [X/Y]	256 points to 4096 points/8192 points
Basic instruction processing speed (LD instruction)	120ns to 1.9ns
External connection interface	USB (all models equipped), Ethernet, RS-232, memory card, extended SRAM cassette
Function module	I/O, analog, high-speed counter, positioning, simple motion, temperature input, temperature control, network module
Module extension style	Building block type
Network	Ethernet, CC-Link IE controller network, CC-Link IE field network, CC-Link, CC-Link/LT, MELSECNET/H, SSCNETⅢ (/H), AnyWire, RS-232, RS-422

## Programmable Controller | MELSEC-L Series



“Light & Flexible” condensing various functions easily and flexibly.

- ◎CPU equipped as a standard with various functions including counter, positioning and CC-Link.
- ◎The base-less structure with high degree of freedom saves space in the control panel.
- ◎Easily confirm the system status and change the settings with the display unit.
- ◎Ten models are available in program capacities from 20 k steps to 260 k steps.

### Product specifications

Program capacity	20 k steps/60 k steps/260 k steps
Number of input/output points [X/Y]	1024 points/4096 points
Number of input/output device points [X/Y]	8192 points
Basic instruction processing speed (LD instruction)	60 ns/ 40 ns/ 9.5 ns
External connection interface	USB, Ethernet, RS-232, SD memory card, CC-Link (L26CPU-BT/PBT)
Function modules	I/O, analog, high-speed counter, positioning, simple motion, temperature control, network module
Unit expansion style	Base-less structure
Network	Ethernet, CC-Link IE Field network, CC-Link, CC-Link/LT, SSCNETⅢ(/H), RS-232, RS-422

## Programmable Controller | MELSEC-F Series



All-in-One Micro Programmable Controller equipped with all necessary functions in a compact body

- ◎Supporting small-scale control from 10 points to 384 points (using CC-Link) with an outstanding cost performance.
- ◎Wide range of options available for additional functions required by your system.
- ◎Easy to use and highly reliable. More than 12 million units have shipped worldwide. (April 2013)
- ◎Small-scale control is available in various networks such as CC-Link, Ethernet, and MODBUS.

### Product specifications

Program capacity	16k steps (FX3S) to 64 k steps (FX3U/FX3UC)
Number of input/output points	10 points (FX3S) to 384 points (FX3U/FX3UC with CC-Link)
Basic instruction processing speed	0.21μs (FX3S) to 65 ns (FX3U/FX3UC)
External connection interface	RS-422, USB (FX3S/FX3G/FX3GC/FX3GE only), Ethernet (FX3GE only), CC-Link/LT (FX3UC-32MT-LT(-2) only)
Built-in functions	I/O, high-speed counter input, positioning pulse output, analog (FX3GE only)
Extended functions	I/O, analog, temperature control, high-speed counter, positioning, network
Unit expansion style	Backplane-less design
Network	Ethernet, CC-Link, CC-Link/LT, SSCNETⅢ, CANopen, J1939, RS-232C, RS-422, RS-485, MODBUS



## AC Servo

## Mitsubishi General-Purpose AC Servo MELSERVO-J4 Series



### Industry-leading level of high performance servo

- ◎Industry-leading level of basic performance: Speed frequency response (2.5kHz), 4,000,000 (4,194,304p/rev) encoder
- ◎Advanced one-touch tuning function achieves the one-touch adjustment of advanced vibration suppression control II, etc.
- ◎Equipped with large capacity drive recorder and machine diagnosis function for easy maintenance.
- ◎2-axis and 3-axis servo amplifiers are available for energy-conservative, space-saving, and low-cost machines.

#### Product Specifications

Power supply specifications	1-phase/3-phase 200V AC, 3-phase 400V AC
Command interface	SSCNET III/H, SSCNET III (compatible in J3 compatibility mode), CC-Link IE Field Network interface with Motion, pulse train, analog
Control mode	Position/Speed/Torque/Fully closed loop
Speed frequency response	2.5kHz
Tuning function	Advanced one-touch tuning, advanced vibration suppression control II, robust filter, etc.
Safety function	STO, SS1 SS2, SOS, SLS, SBC, SSM (compatible when combined with motion controller)
Compatible servo motor	Rotary servo motor (rated output: 0.05 to 22kW), linear servo motor (continuous thrust 50 to 3000N), direct drive motor (rated torque: 2 to 240N·m)

## Inverter

## FR-A800 Series



### High-functionality, high-performance inverter

- ◎Realize even higher responsiveness during real sensor-less vector control or vector control, and achieve faster operating frequencies.
- ◎The latest automatic tuning function supports various induction motors and also sensor-less PM motors.
- ◎The standard model is compatible with EU Safety Standards STO (PLd, SIL2). Add options to support higher level safety standards.
- ◎A variety of useful functions provide USB memory support and customization with a PLC function.

#### Product Specifications

Inverter capacity	200V class: 0.4kW to 90kW, 400V class: 0.4kW to 500kW
Control method	High-carrier frequency PWM control (Select from V/F, advanced flux vector, real sensor-less vector or PM sensor-less vector control), vector control (when using options)
Output frequency range	0.2 to 590Hz (when using V/F control or advanced flux vector control)
Regenerative braking torque (Maximum tolerable usage rate)	200V class: 0.4K to 1.5K (150% at 3%ED) 2.2K/3.7K (100% at 3%ED) 5.5K/7.5K (100% at 2%ED) 11K to 55K (20% continuous) 75K or more (10% continuous), 400V class: 0.4K to 7.5K (100% at 2%ED) 11K to 55K (20% continuous) 75K or more (10% continuous)
Starting torque	200% 0.3Hz (3.7K or less), 150% 0.3Hz (5.5K or more) (when using real sensor-less vector, vector control)

## Robot

## MELFA F Series



### High speed, high precision and high reliability industrial robot


- ◎Compact body and slim arm design, allowing operating area to be expanded and load capacity increased.
- ◎The fastest in its class using high performance motors and unique driver control technology.
- ◎Improved flexibility for robot layout design considerations.
- ◎Optimal motor control tuning set automatically based on operating position, posture, and load conditions.

#### Product Specifications

Degrees of freedom	Vertical:6 Horizontal:4
Installation	Vertical:Floor-mount, ceiling mount, wall mount (Range of motion for J1 is limited) Horizontal:Floor-mount
Maximum load capacity	Vertical:2-20kg Horizontal:3-20kg
Maximum reach radius	Vertical:504-1503mm Horizontal:350-1,000mm

## Shortcut Keys

### Shortcut keys

Shortcut key	Operation	Icon	Tool bar	Menu
Ctrl + N	Create a new project		Main	Project
Ctrl + O	Open an existing project		Main	Project
Ctrl + S	Overwrite the current project		Main	Project
Ctrl + P	Display the print setting dialog		Main	Project
F1	Display GT Designer3 Help			
Ctrl + Z	Cancel the last action		Edit	Edit
Ctrl + X	Cut		Edit	Edit
Ctrl + C	Copy		Edit	Edit
Ctrl + V	Paste		Edit	Edit
Ctrl + D	Duplicate		Edit	Edit
Ctrl + G	Group		Edit	Edit
Ctrl + U	Ungroup		Edit	Edit
Ctrl + L	Rotate the selected data by 90 degrees to the left		Edit	Edit - Rotate/Flip
Ctrl + R	Rotate the selected data by 90 degrees to the right		Edit	Edit - Rotate/Flip
(With figure/object selected) Alt + ←→↑↓	Move 1 dot			
Tab	Select the next object/figure			
Shift + Tab	Select the previous object/figure			
Ctrl + Alt + P	Open the previous screen		Screen	Screen
Ctrl + Alt + N	Open the next screen		Screen	Screen
Ctrl + W	Close the current screen		Screen	
(With figure/object selected) Alt + Enter	Open the setting dialog of the selected data		Edit	Edit
(Over dialog) Ctrl + Page Up	Switch to the left tab			
(Over dialog) Ctrl + Page Down	Switch to the right tab			
(Over comment list) Alt + N	Add a comment line			
(Over screen editor) Ctrl + I	Show the screen preview		View	
F7	Display ON/OFF-state of editor screen		View	
Alt + 0(zero)	Display/hide Project tree		View	
Alt + 1(one)	Display/hide Property sheet		View	
F9	Display/hide Library List		View	
Ctrl + Shift + F	Display/hide Utilize Data (Screen)		View	View
Ctrl + F10	Activate simulator		Simulator	Tools - Simulator

## Inquiry

**Q Where should we contact if we are interested in purchasing the software or need technical information?**

**A** Please contact your local sales office for any inquiries about the product.

## Products

**Q We are currently using the GOT1000 Series screen design software GT Works3.**

**Do we need to purchase new screen design software to design screen data for the GOT2000 Series?**

**A** The GOT2000 Series screen data can be designed with GT Works3 Version 1.100E or later.

If your version of GT Works3 is older than Version 1.100E, there is no need to purchase the new version.

For more details, please contact your local sales office.

**Q What language is available?**

**A** GT Works3 is available in English, Japanese, and Chinese.

**Q Can the GOT1000 Series screen data be used with the GOT2000 Series?**

**A** The GOT1000 Series screen data can be used with the GOT2000 Series just by changing the GOT type.

**Q Can the GOT2000 Series screen data be used with the GOT1000 Series?**

**A** The GOT2000 Series screen data cannot be converted into the GOT1000 Series screen data, and thus cannot be used with the GOT1000 Series.

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The actual color may differ slightly from the pictures in this catalog.

The actual display may differ from what are shown on GOT screen images.

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CC-Link IE



# iQ Platform Graphic Operation Terminal Screen Design Software

## MELSOFT GT Works3

### Precautions for Choosing the Products

This catalog explains the typical features and functions of MELSOFT GT Works3 and does not provide restrictions and other information on usage and module combinations.

When using the products, always read the user's manuals of the products.

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### For safe use

- To use the products given in this catalog properly, always read the related manuals before starting to use them.
- The products within this catalog have been manufactured as general-purpose parts for general industries and have not been designed or manufactured to be incorporated into any devices or systems used in purpose related to human life.
- Before using any product for special purposes such as nuclear power, electric power, aerospace, medicine or passenger movement vehicles, consult with Mitsubishi.
- The products within this catalog have 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/Fax
USA	MITSUBISHI ELECTRIC AUTOMATION, INC. 500 Corporate Woods Parkway, Vernon Hills, IL 60061, U.S.A.	Tel: +1-847-478-2100 Fax: +1-847-478-2253
Brazil	MITSUBISHI ELECTRIC DO BRASIL COMÉRCIO E SERVIÇOS LTDA. Rua Jussara, 1750- Bloco B Anexo, Jardim Santa Cecilia, CEP 06465-070, Barueri - SP, Brasil	Tel: +55-11-4689-3000 Fax: +55-11-4689-3016
Mexico	MITSUBISHI ELECTRIC AUTOMATION, INC. Mexico Branch Mariano Escobedo #69, Col.Zona Industrial, Tlalnepantla Edo, C.P.54030, México	Tel: +52-55-9171-7600 Fax: +52-55-9171-7649
Germany	MITSUBISHI ELECTRIC EUROPE B.V. German Branch Gothaer Strasse 8, D-40880 Ratingen, Germany	Tel: +49-2102-486-0 Fax: +49-2102-486-1120
UK	MITSUBISHI ELECTRIC EUROPE B.V. UK Branch Travellers Lane, Hatfield, Hertfordshire, AL10 8XB, U.K.	Tel: +44-1707-28-8780 Fax: +44-1707-27-8695
Italy	MITSUBISHI ELECTRIC EUROPE B.V. Italy Branch Centro Direzionale Colleoni - Palazzo Sirio Viale Colleoni 7, 20864 Agrate Brianza (Milano), Italy	Tel: +39-039-60531 Fax: +39-039-6053-312
Spain	MITSUBISHI ELECTRIC EUROPE B.V. Spanish Branch Carretera de Rubí 76-80-Apdo.420, 08173 Sant Cugat del Vallés (Barcelona), Spain	Tel: +34-935-65-3131 Fax: +34-935-89-1579
France	MITSUBISHI ELECTRIC EUROPE B.V. French Branch 25, Boulevard des Bouvets, F-92741 Nanterre Cedex, France	Tel: +33-1-55-68-55-68 Fax: +33-1-55-68-57-57
Czech Republic	MITSUBISHI ELECTRIC EUROPE B.V. Czech Branch Avenir Business Park, Radicka 751/113e, 158 00 Praha 5, Czech Republic	Tel: +420-251-551-470 Fax: +420-251-551-471
Turkey	MITSUBISHI ELECTRIC TURKEY A.S. Umraniye Branch Serifali Mahallesi Nutuk Sokak No:5 TR-34775 Umraniye, Istanbul, Turkey	Tel: +90-216-526-3990 Fax: +90-216-526-3995
Poland	MITSUBISHI ELECTRIC EUROPE B.V. Polish Branch ul. Krakowska 50, 32-083 Balice, Poland	Tel: +48-12-630-47-00 Fax: +48-12-630-47-01
Russia	MITSUBISHI ELECTRIC EUROPE B.V. Russian Branch St. Petersburg Office Piskarevsky pr. 2, bld 2, lit "Sch", BC "Benuea", office 720; RU-195027 St. Petersburg, Russia	Tel: +7-812-633-3497 Fax: +7-812-633-3499
South Africa	ADROIT TECHNOLOGIES 20 Waterford Office Park, 189 Witkoppen Road, ZA-Fourways, South Africa	Tel: +27-11-658-8100 Fax: +27-11-658-8101
China	MITSUBISHI ELECTRIC AUTOMATION (CHINA) LTD. No.1386 Hongqiao Road, Mitsubishi Electric Automation Center, Changning District, Shanghai, China	Tel: +86-21-2322-3030 Fax: +86-21-2322-3000
Taiwan	SETSUYO ENTERPRISE CO., LTD. 6F., No.105, Wugong 3rd Road, Wugu District, New Taipei City 24889, Taiwan, R.O.C.	Tel: +886-2-2299-2499 Fax: +886-2-2299-2509
Korea	MITSUBISHI ELECTRIC AUTOMATION KOREA CO., LTD. 1480-6, Gayang-Dong, Gangseo-Gu, Seoul 157-200, Korea	Tel: +82-2-3660-9530 Fax: +82-2-3664-8372/8335
Singapore	MITSUBISHI ELECTRIC ASIA PTE. LTD. 307 Alexandra Road, Mitsubishi Electric Building, Singapore 159943	Tel: +65-6473-2308 Fax: +65-6476-7439
Thailand	MITSUBISHI ELECTRIC FACTORY AUTOMATION (THAILAND) CO., LTD. 12th Floor, SV.City Building, Office Tower 1, No. 896/19 and 20 Rama 3 Road, Kwaeng Bangpongpan, Khet Yannawa, Bangkok 10120, Thailand	Tel: +66-2682-6522 to 31 Fax: +66-2682-6020
Indonesia	PT. MITSUBISHI ELECTRIC INDONESIA Gedung Jaya 11th Floor, JL. MH. Thamrin No.12, Jakarta Pusat 10340, Indonesia	Tel: +62-21-3192-6461 Fax: +62-21-3192-3942
Vietnam	MITSUBISHI ELECTRIC VIETNAM COMPANY LIMITED Unit 01 - 04, 10th Floor, Vincom Center, 72 Le Thanh Ton Street, District 1, Ho Chi Minh City, Vietnam	Tel: +84-8-3910-5945 Fax: +84-8-3910-5947
India	MITSUBISHI ELECTRIC INDIA PVT. LTD. Pune Branch Emerald House, EL-3, J Block, M.I.D.C., Bhosari, Pune, 411026, Maharastra State, India	Tel: +91-20-2710-2000 Fax: +91-20-2710-2100
Australia	MITSUBISHI ELECTRIC AUSTRALIA PTY. LTD. 348 Victoria Road, P.O. Box 11, Rydalmere, N.S.W. 2116, Australia	Tel: +61-2-9684-7777 Fax: +61-2-9684-7245

## MITSUBISHI ELECTRIC CORPORATION

HEAD OFFICE: TOKYO BLDG., 2-7-3, MARUNOUCHI, CHIYODA-KU, TOKYO 100-8310, JAPAN  
NAGOYA WORKS: 1-14, YADA-MINAMI 5, HIGASHI-KU, NAGOYA, JAPAN

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