

Mitsubishi iQ Platform Compatible
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⁺plus

Improve your screen designing efficiency and
effectively use screen assets.

Freely design GOT screens with intuitive operations.

Improve screen designing efficiency ... Create unique screens ... Fully utilize existing screen assets ...
“MELSOFT GT Works3” answers these needs with ready-to-use sample data, and contributes to less
designing work through effective reuse of screen assets.

Now you can collaborate between Mitsubishi FA products as well as other applications to design
screens that beginners can use with stress-free and intuitive operations.

GT Works3 is ready to change the scene of GOT screen designing.

GOT Screen Design Software
MELSOFT GT Works3^{+plus}

GOT2000
[Graphic Operation Terminal]



和文と英文で支給いただいたスクリーンショットの縦幅が違いましたが、パソコンの方を合わせてもよろしいでしょうか？

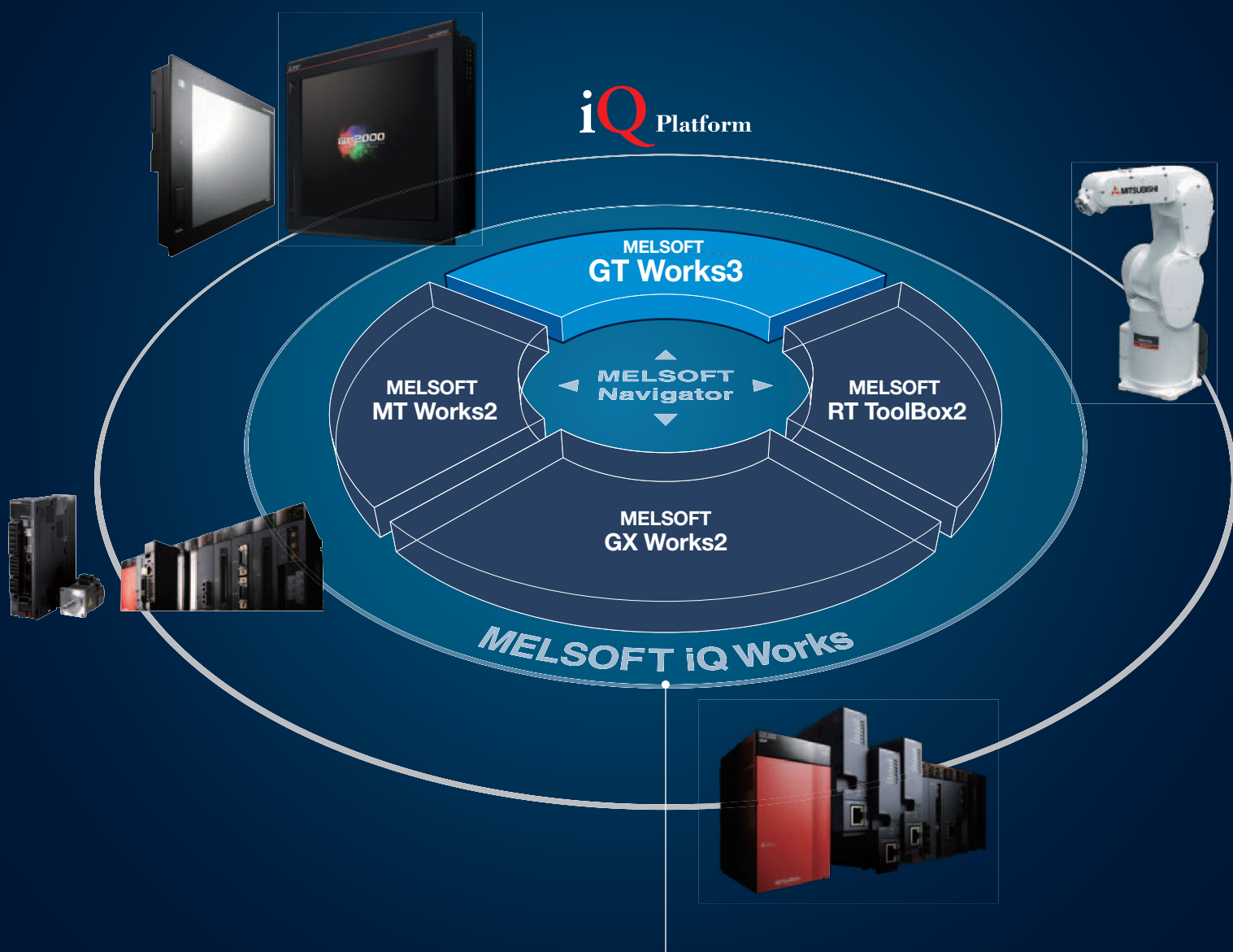
Display Unit Screen Design Software

MELSOFT GT Works3

This software integrally supports the creation of screens for display units.

User-oriented functions have been created with the three themes

“Simple”, “Beautiful” and “User-friendly” to support the creation of rich and powerful screens with fewer steps.

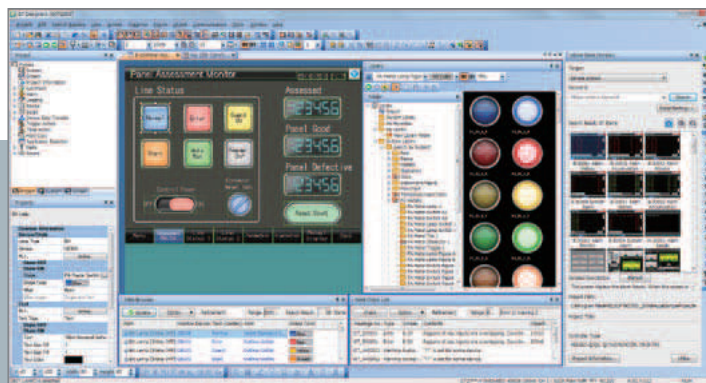


FA Integral Engineering Software

MELSOFT iQ Works

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.





System Management Software

MELSOFT Navigator

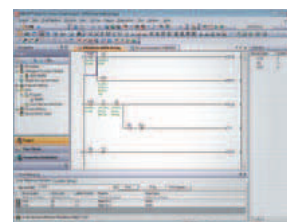
This software, used with GX Works2, MT Works2, GT Works3 or RT ToolBox2, creates an interlink with the system's upstream designs or between each software. Convenient functions include system configuration designing, parameter group setting, system labeling and group reading.



Programmable Controller Engineering Software

MELSOFT GX Works2

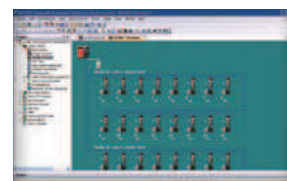
This software provides comprehensive supports for programmable controller design and maintenance work. Program assets created with GX Developer have been incorporated to refine familiar functions, and comfortable operability has been pursued to realize a reduction in engineering costs.



Motion Controller Engineering Software

MELSOFT MT Works2

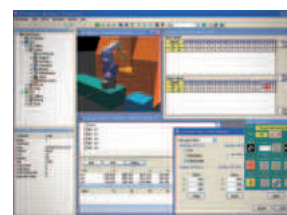
This software provides comprehensive supports for motion controller design and maintenance. Reductions to the motion system's TCO are assisted by intuitive settings on a graphical screen, programming functions and convenient functions such as the digital oscillation simulator.



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 Viewer 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

Changing screen designs with refined user interfaces
Highly recommended functions for easily designing beautiful screens!

1 PNG Images and Outline Fonts now supported!

NEW

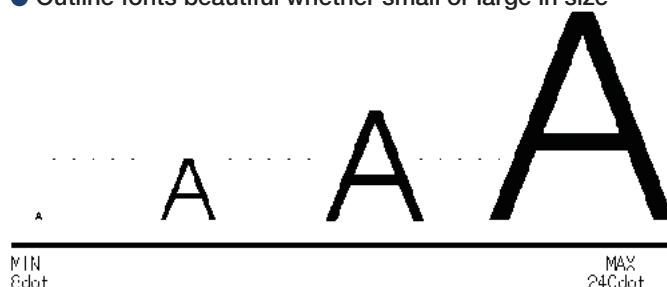
GOT2000

Use PNG images, with beautiful contours even when enlarged, and outline fonts that support 8 dots to 240 dots to create original beautiful screens.

● PNG image system library



● Outline fonts beautiful whether small or large in size



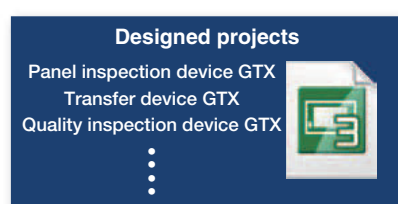
2 Effectively use screen assets with “Reuse Design Function”

NEW

GOT2000

Candidates to reuse from previously designed projects and sample projects are searched for with keywords, etc., and displayed.

Effectively reuse assets to easily design your screens.



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

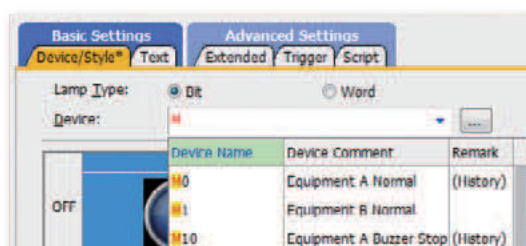
➔P.10

3 Helping device inputs with “Input Assistance”

NEW

GOT2000

Candidates of devices to be set are displayed allowing devices to be input easily.



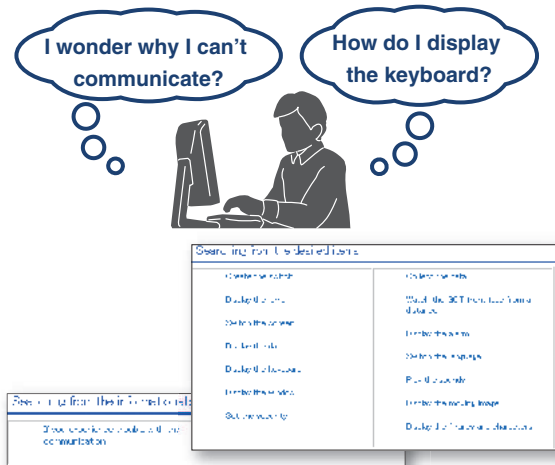
What was that device?
Oh, here it is!

➔P.14

4 “Help” ... Information at your fingertips Ver.UP

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 Supporting GOT2000 and GOT1000 with this software!

Just select the GOT type in the Model Setting to open the screen-designing screen for your GOT type.

GOT2000
GOT1000



INDEX

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

Improving screen designing efficiency

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FA related products

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List of shortcut keys

P.34

FAQ

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Screen Configuration (GOT2000)

Work Tree P.19

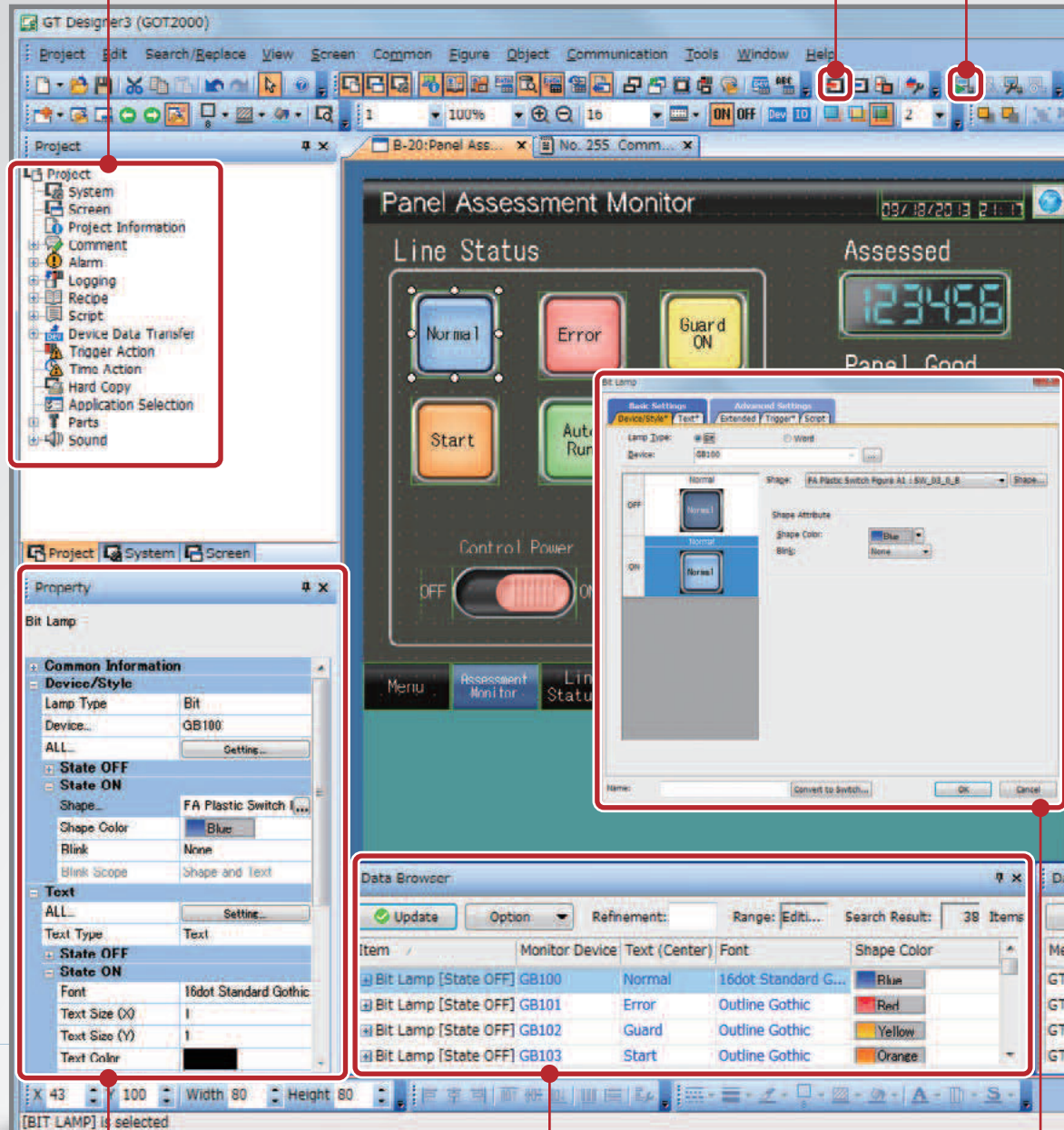
Ver.UP

View projects,
and easily add or delete screens!

Data Transfer P.23

Ver.UP

Send 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 **Ver.UP**

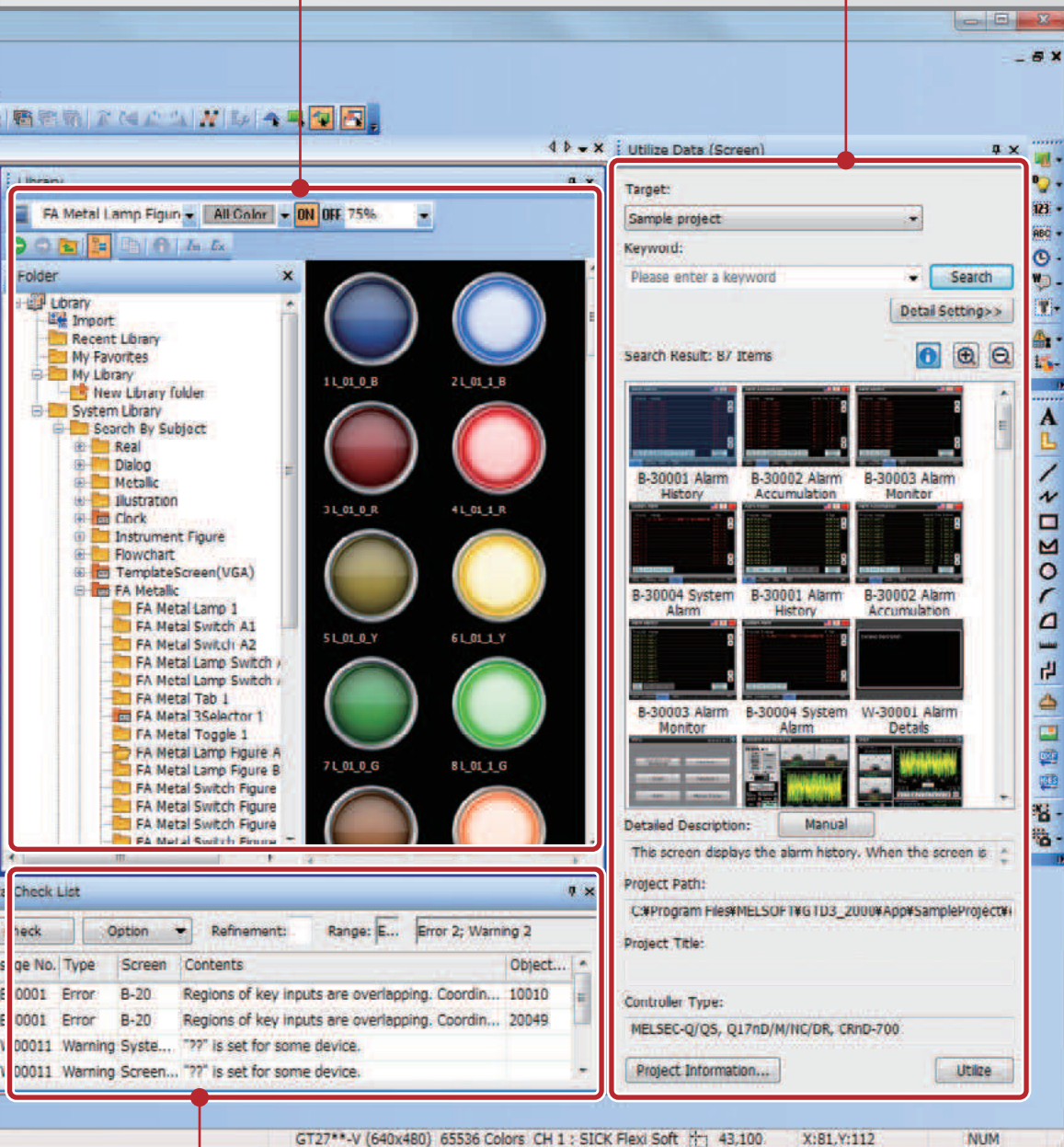
Easily create beautiful screens!

Reuse 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 Checklist 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.

Effectively use screen assets to efficiently design screens!

Designate conditions such as keywords to search for reuse candidates from previously designed projects and prepared sample projects. By selecting and reusing data from the list of candidates, screens can be created efficiently even without full comprehension of the project settings. Reuse your valuable screen assets for new screens.



Reuse entire projects when creating new projects

When creating a new project, select an optimum project from the countless screen assets and efficiently create a project. Search data by designating the search range in the reuse source, or with prepared keywords or random keywords.

Designate search range
Select "Sample Project" to reuse a sample project

Keyword selection or input
Select a prepared keyword or input a random keyword

Search results are displayed

Select from the candidates and reuse in project units

Procedure: [Project (P)] ⇒ [New (N)] ⇒ [Reuse and Create]

Search target

The search range can be designated.

- Sample project ⇒ P.12
- Recently edited project
- Folder designation (Search folders up to three levels below)
Designating the GOT project folder will make searches easier.

NEW Reuse Design Function

GOT2000

Sample project



Alarm-Sort_V_Ver1_J.GTX
Recipe_V_Ver1_J.GTX
MITSUBISHI_FR-A700_V_Ver1_J.GTX
...



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

Reuse screens at pinpoint sections when adding screens

Reuse screen units from designed projects or prepared sample projects.

The related settings for each screen (comment data, logging settings, etc.) can also be reused making it easily to create a project.

Designate search range
Select "Sample Project" to reuse a sample project

Select or input a keyword
Select a prepared keyword or input a random keyword

Search results are displayed

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

Reuse related settings at the same time with drag & drop

Procedure: [Screen (S)] → [New (N)] → [Reuse and Create]

Shortcut keys: **Ctrl + Shift + F**

Search keywords

Select a prepared keyword or input a random keyword to search the data. When reusing a project, the file name and project information (project title, detailed explanation, creator) can be used to search the data.

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 reusing a screen, the file name, screen title, detailed information on screen, object name, figure name and template name can be used to search the data.

Refined Search

Refine the search by the GOT type, connected device type and last update to quickly find the data you want to reuse.

Variety of sample projects available for use with reuse designing function

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

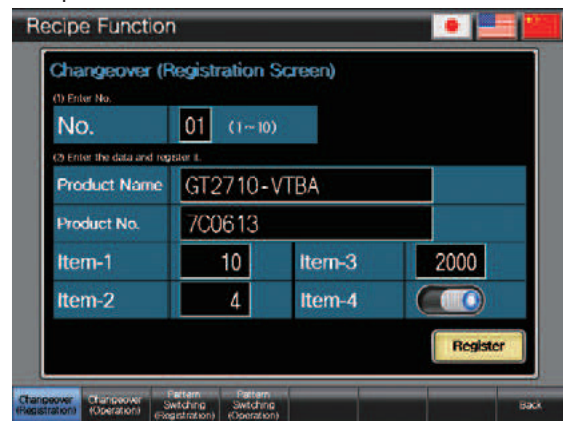
Easily create project data to match your purpose and application.

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



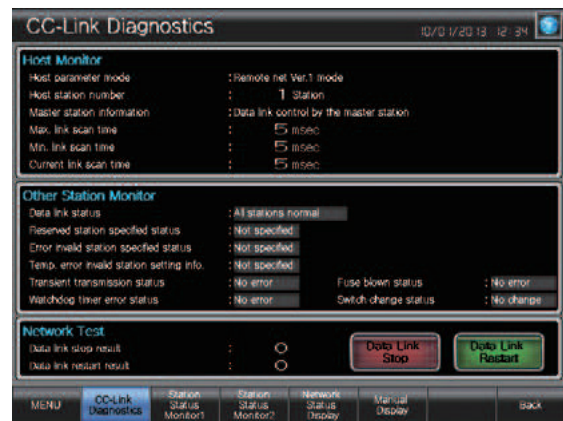
Mitsubishi plans to continue adding sample projects. Check the latest information at the Mitsubishi Electric FA Site's Download Corner.➡P.31
Reuse design function➡P.10

Sample projects for confirming device and network status

Device monitor



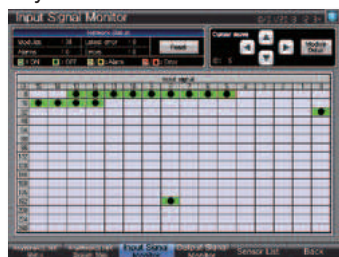
CC-Link network monitor



Indicators

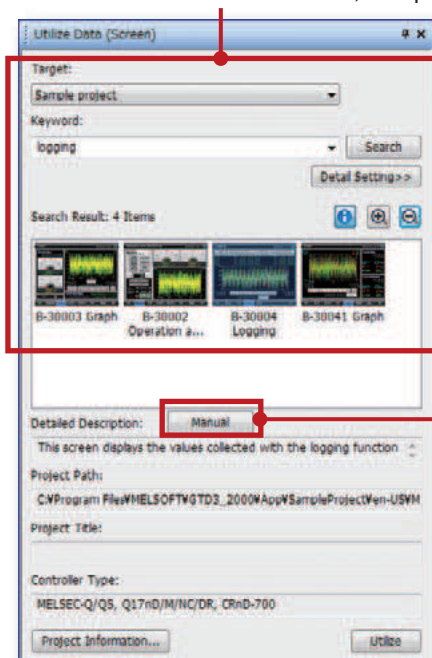


AnyWireASLINK

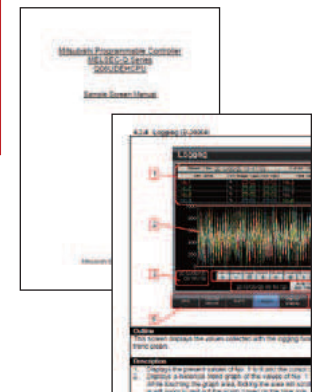


Using sample projects

- ① Select "Sample Project" as the Target on the Reuse Design screen.
- ② Select or input (random) the keyword
- ③ Select from the search results, and press the OK button



The sample project details and usage methods will appear.



Smooth device settings!

NEW Input assistance

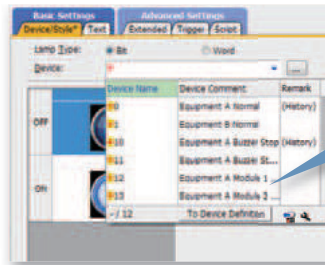
GOT2000

When setting devices, input candidates from the preset devices or from the device comments and device definitions are displayed.

Displaying candidates from preset devices

The setting device candidates are displayed when the device name is input in the Device Setting dialog.

The device comments and device definitions are also displayed, so devices can be checked and set.



① Input device name

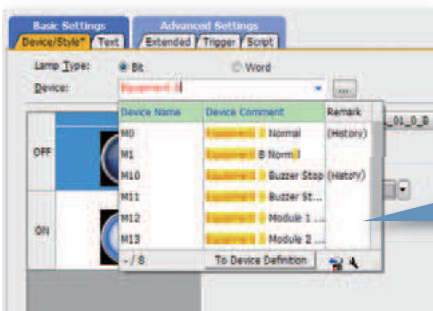
② Devices corresponding to the input device name are selected and displayed from the device preset in a project or from the history of recently set devices.

③ Select a device from the candidates and set it.

Displaying candidates from device comments and device definitions

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

<Example of device comments>



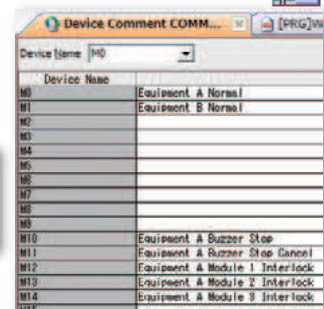
① Import comment file

② Input keyword

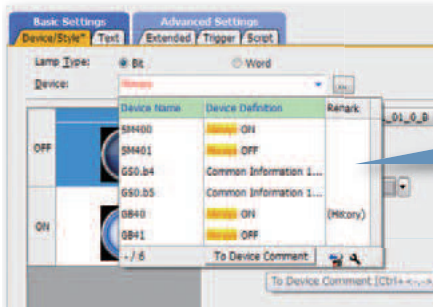
③ Devices corresponding to the input keyword are displayed from the device comments set with GX Works2.

④ Select from the candidates and set the device

Device comment set with GX Works2/GX Developer



<Example of device definition>

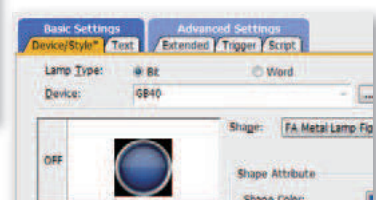


① Input keyword

② Devices corresponding to the input keyword are displayed from the device definitions of GOT internal device function names or 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 limit the data with multiple keywords.

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

Information right at your fingertips!

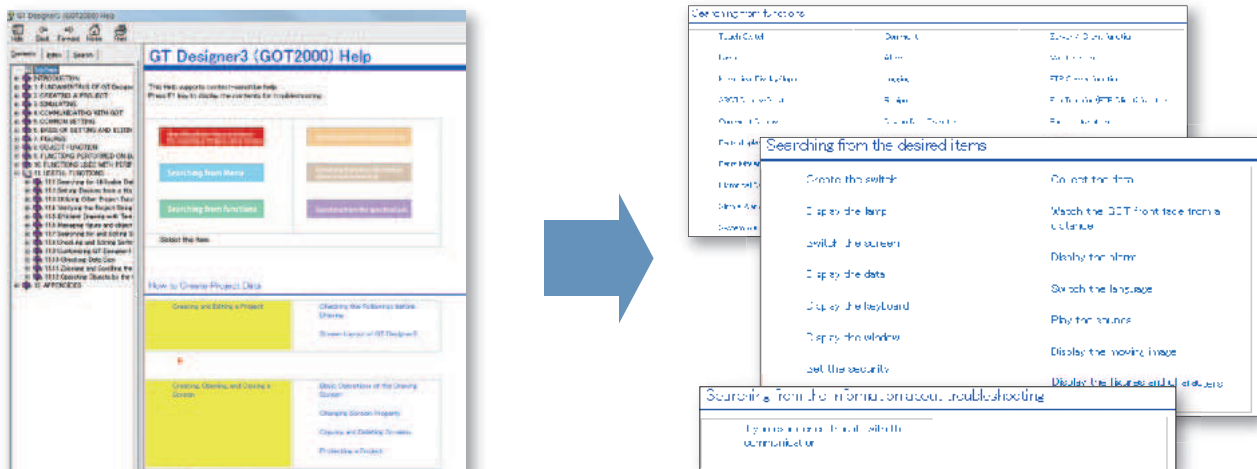
Ver.UP Help

GOT2000
GOT1000

Quickly check the information you need with the powerful help function.

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

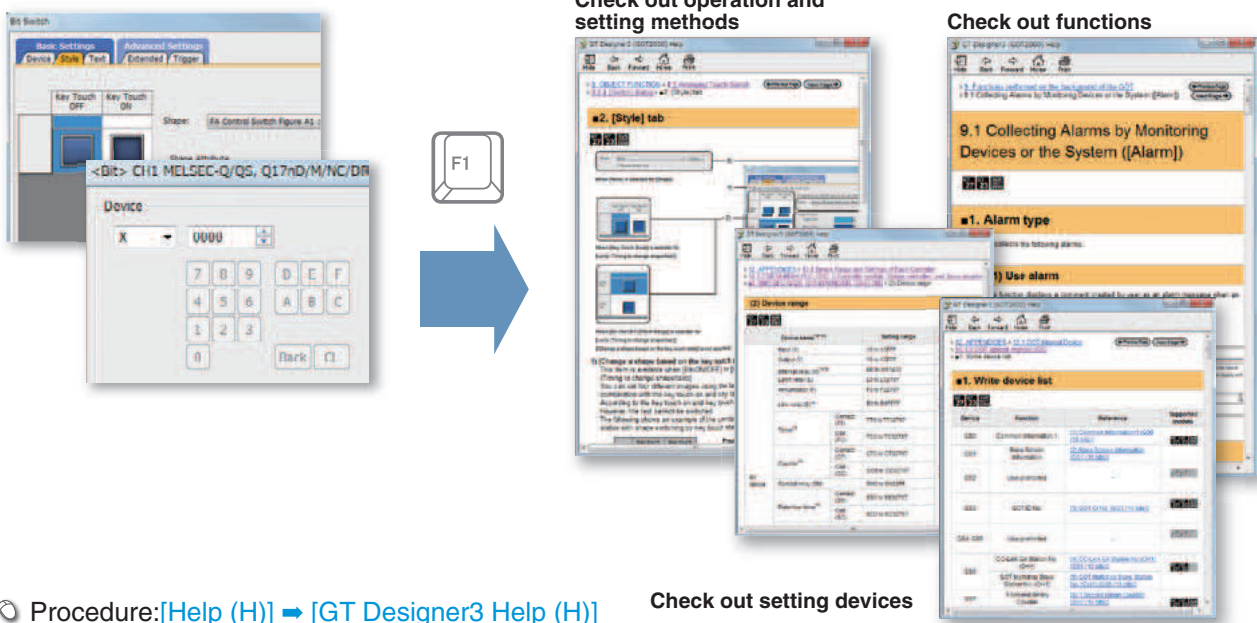
Search for information with the function name, specifications or with phrases on information you need or are having trouble with.



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 (H)] → [GT Designer3 Help (H)]
Shortcut key: F1

Check out setting devices

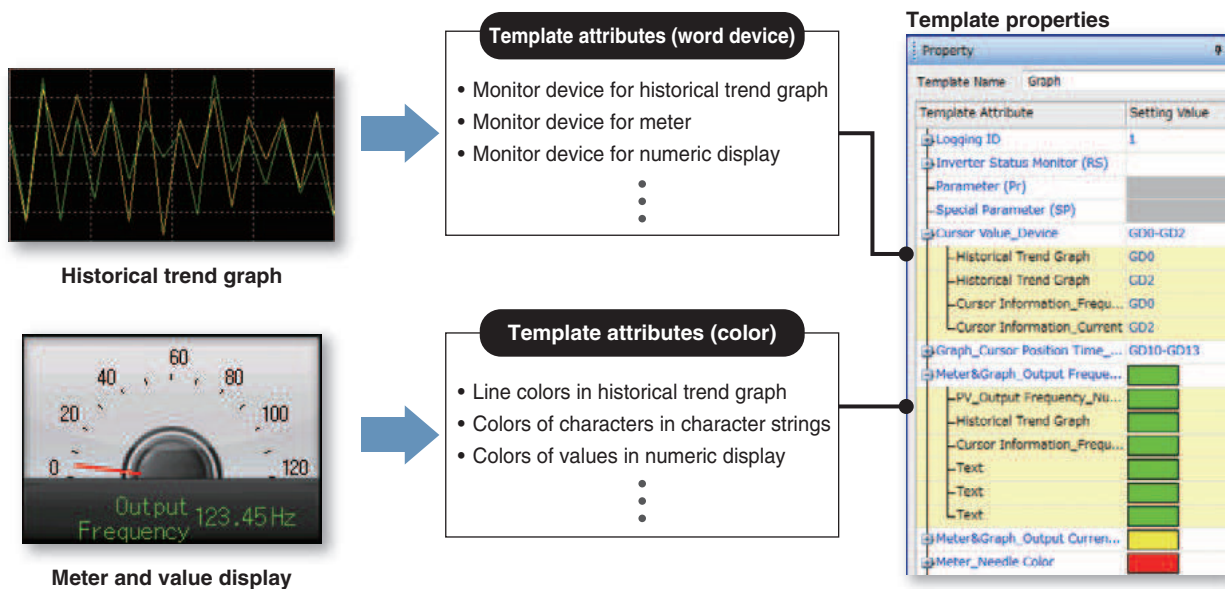
Use templates to greatly reduce designing steps!

Use prepared template libraries and original templates to change devices and colors, etc., easily in a batch. Templates make it easy to customize your screens or settings.



What are templates?

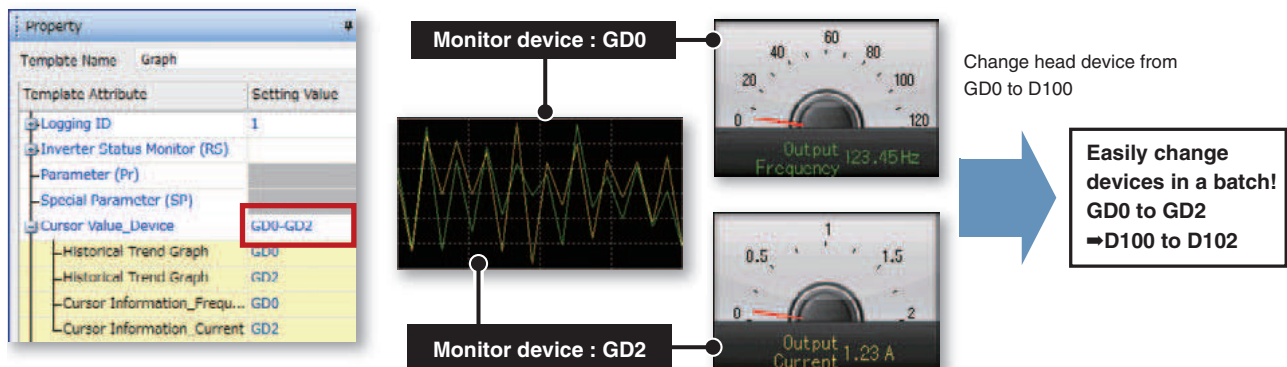
The template attributes for devices and colors, etc., can be set in templates. By assigning a relation to each object's attributes to the template attributes, the devices and colors, etc., can be easily changed in a batch.



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

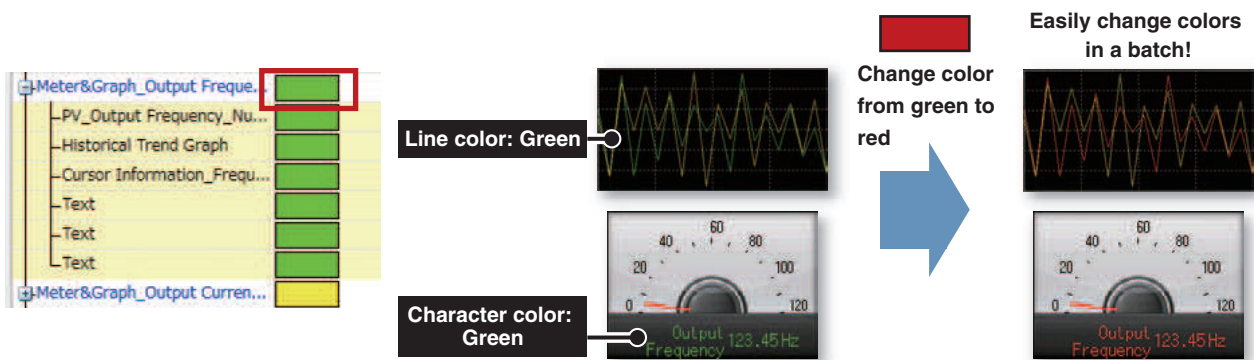
Changing devices

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



Changing colors

Colors can be changed in a batch.



Values, character strings, figures, fonts and character sizes can also be changed.

- **Items that can be registered in templates**
Images, objects
- **Types that can be registered and changed in template attributes**
Devices (bit, word), values, character strings, colors, figures, fonts, character sizes

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

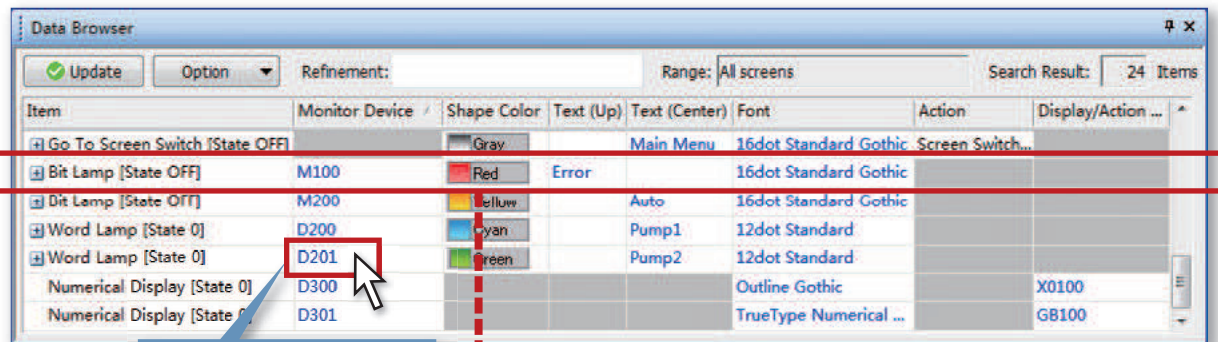
Creating a template Procedure: Select object → Right click → [Template Register/Unregister (A)]

Efficiently revise data on multiple screens!

Data browser

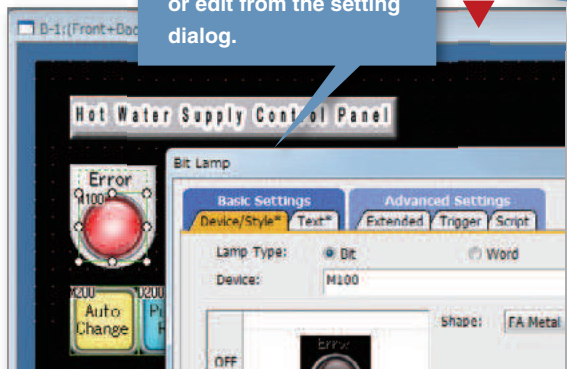
GOT2000
GOT1000

The settings for objects used in a project can be listed and directly edited in the screen or from the setting dialog. Data on multiple screens and reuse of existing data can be confirmed and revised efficiently.

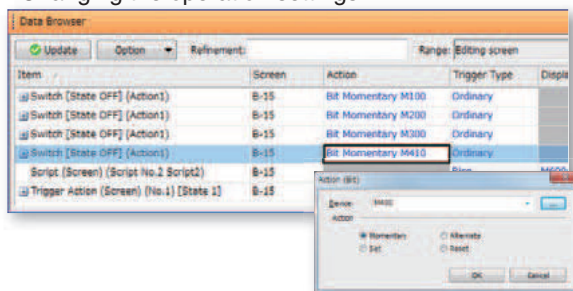


Directly edit on the list,
or edit from the setting
dialog.

Double-click



<Changing the operation settings>



● Display targets

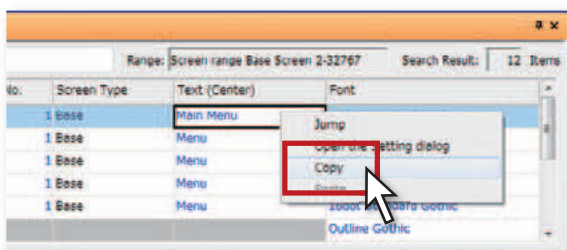
Various figures, various objects, screen script, screen trigger actions

● Editable details

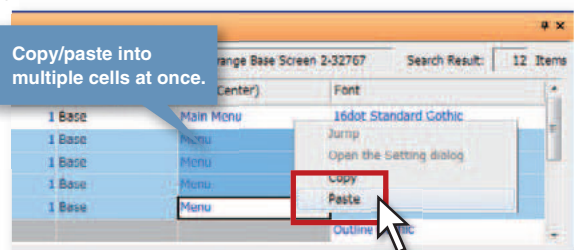
Directly edit devices and character strings, etc.
Change devices, character strings and colors in a batch
Change operation settings and fonts
Copy/paste multiple cells
Sort, or limit with devices/keywords
Sort with multiple rows
Interchange rows with drag & drop

<Copying or pasting multiple cells>

Switch the screen to the main menu (screen No. 1) on each screen, and change the switch nameplate from [Menu] to [Main Menu].



Copy/paste into
multiple cells at once.



Procedure: [View (V)] ⇒ [Docking window (C)] ⇒ [Data browser (W)]

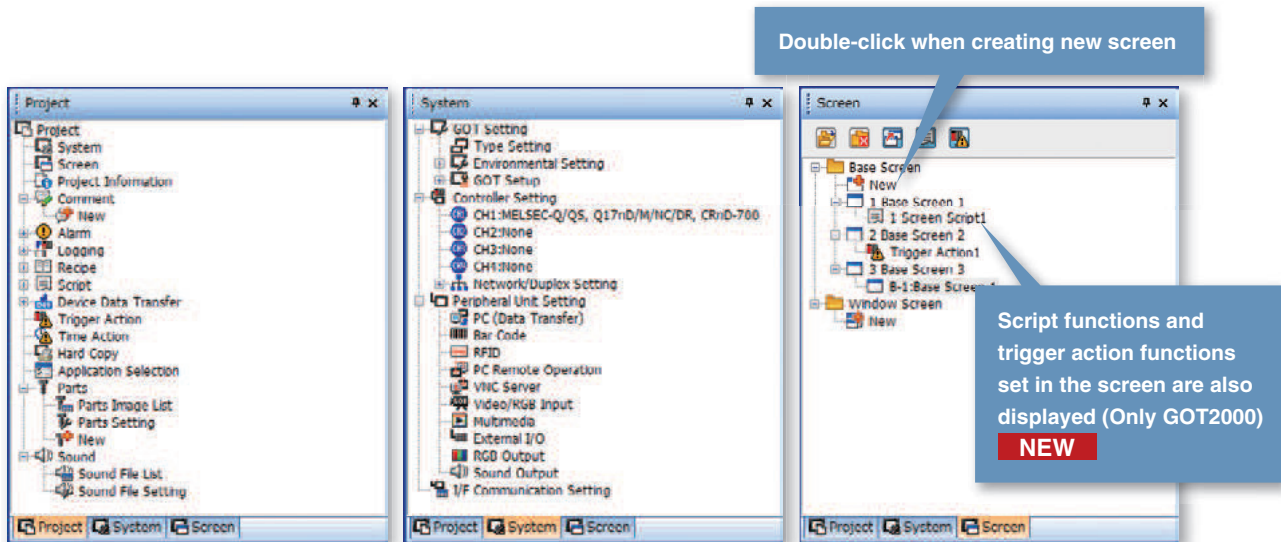
Shortcut key: Ctrl + E

Easy access to setting items!

Ver.UP 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.



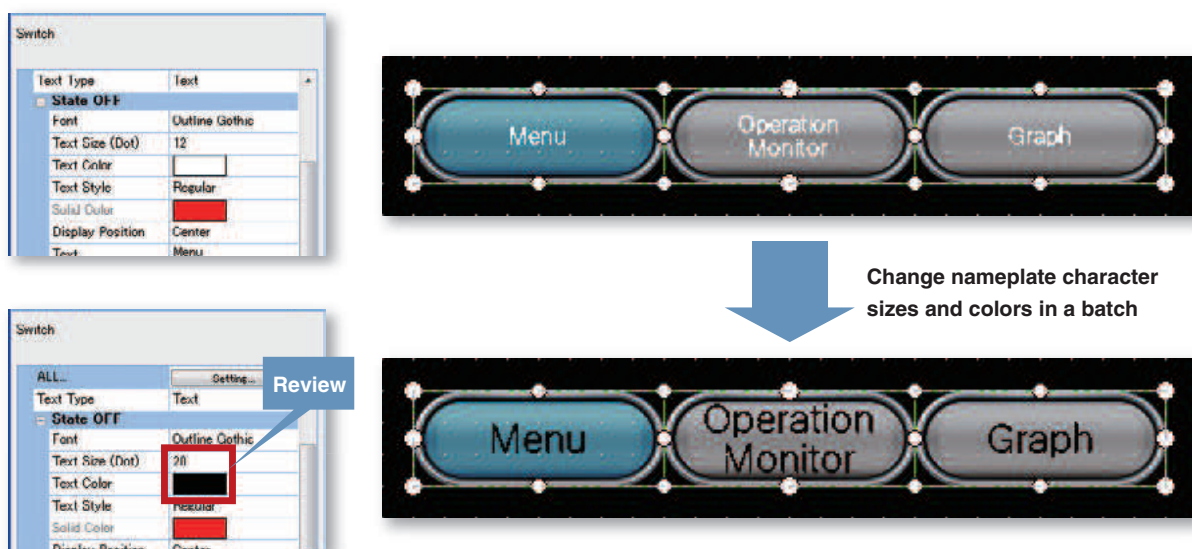
Project tree display Procedures:[View (V)] ➔ [Docking window (C)] ➔ [Project tree (R)]
Shortcut key:Alt + 0

Easily check and make batch changes!

Property sheet

GOT2000
GOT1000

Display the setting details for the selected object or figure in the tree. There's no need to open a dialog to check and set colors and devices, etc. Colors and character sizes, etc., can also be changed in a batch by selecting multiple objects and figures.



Procedures:[View (V)] ➔ [Docking window (C)] ➔ [Project tree (E)]
Shortcut key:Alt + 1

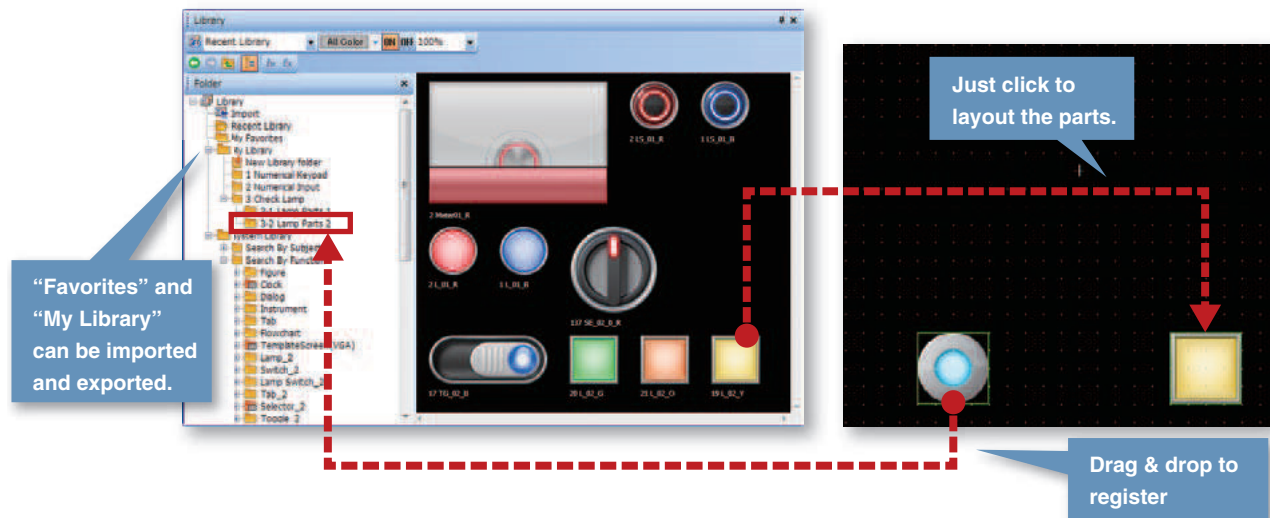
Quickly find the screens and parts you need!

Library

GOT2000
GOT1000

Use the easy-to-read tree display to select screens and parts from the “Visual appearance”, “Function”, “Recently used library” or “Favorites”.

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



Library list display Procedures: [View (V)] → [Docking window (C)] → [Library List (L)]

Shortcut key: F9

Library list (template) display Procedures: [View (V)] → [Docking window (C)] → [Library List (I)]

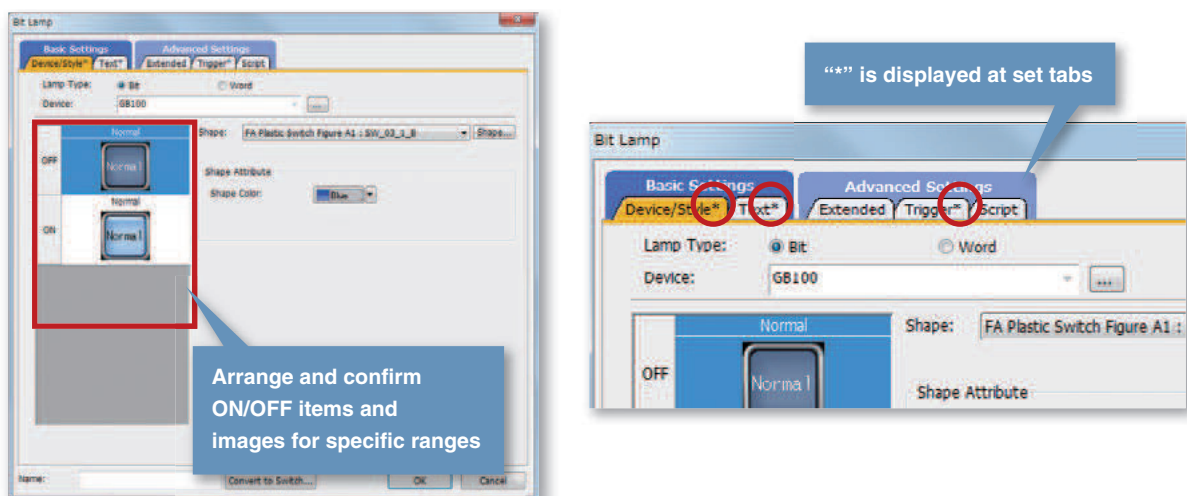
Shortcut key: Alt + F9

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 design sections in a glance.



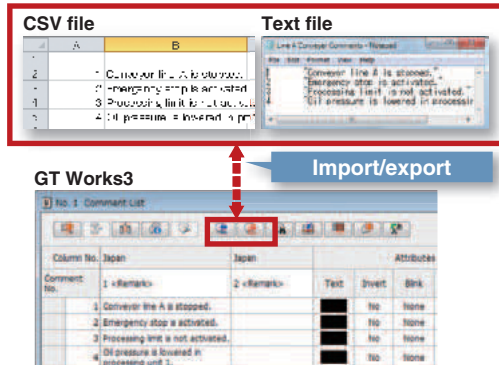
Dialog box display Procedure: Select object → double-click or select object → Alt + Enter

Improve the comment inputting efficiency!

Collaboration with
other applications

GOT2000
GOT1000

Collaborate with other applications and quickly input comments.

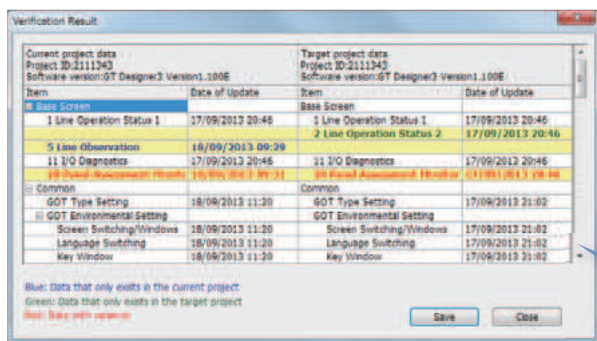


- Import/export CSV/Unicode® text file format data
- Copy & paste from Microsoft® Excel® or GX Works2 to GT Works3

Quickly identify differences in the data! Ver.UP 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**

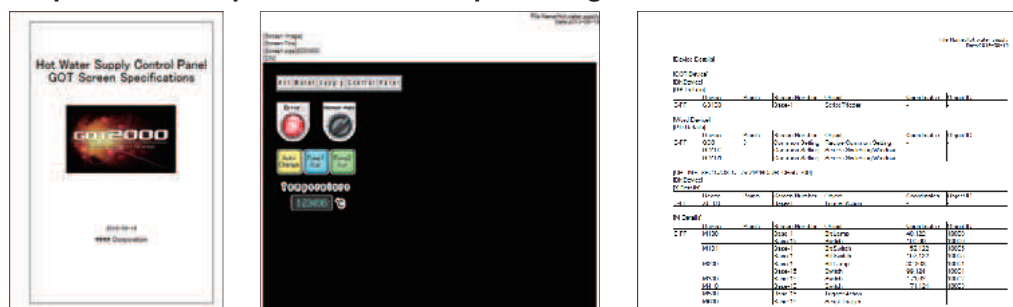
Procedure: [Project (P)] ➔ [Verify (V)]

Easily create specifications!

Printing function

GOT2000
GOT1000

Covers, screen images and lists of setting devices, etc., can be printed or output to files making it simple to create specifications and operation guides.



Procedure: [Project (P)] ➔ [Print (P)]

Shortcut key: **Ctrl + P**

Identify errors quickly!

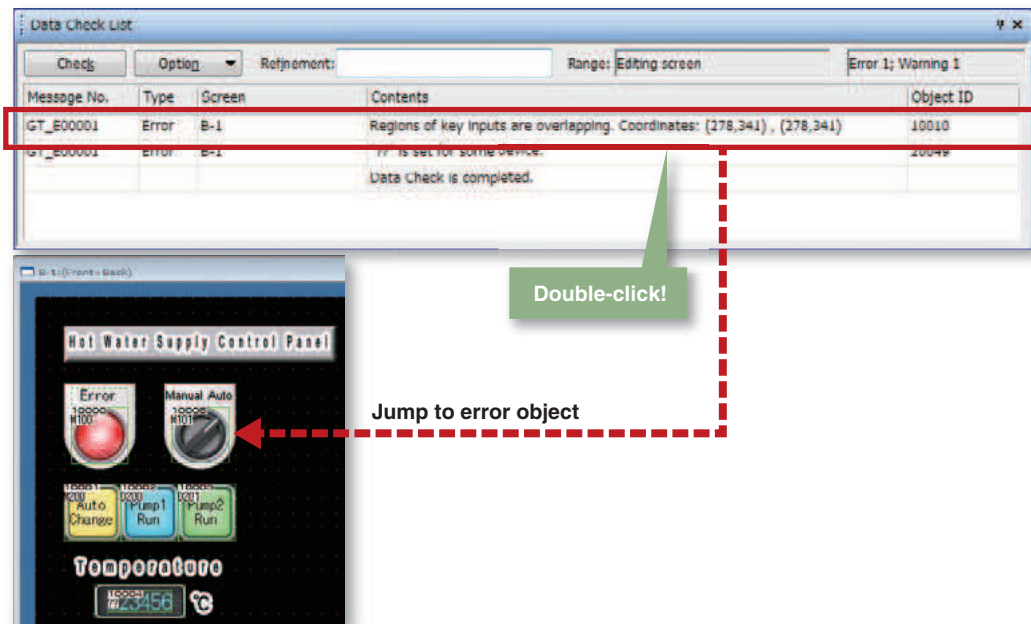
NEW Data checklist

GOT2000

The touch switch quantity and overlapping state, object quantity and illegal devices are checked. 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 (V)] ➔ [Docking window (C)] ➔ [Data checklist (D)]

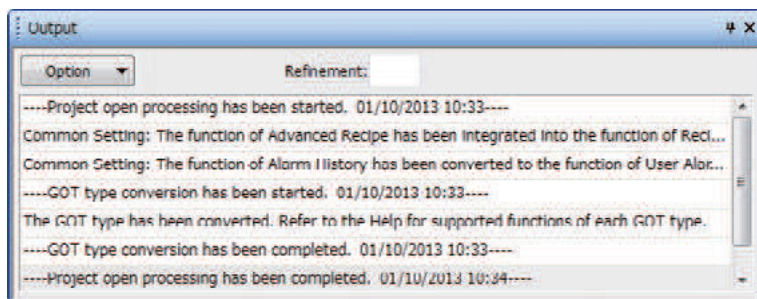
Notify the data processing state and errors

NEW Output window

GOT2000

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

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



Procedure: [View (V)] ➔ [Docking window (C)] ➔ [Output (O)]

Send data with a single click!

Ver.UP Data transfer

GOT2000
GOT1000

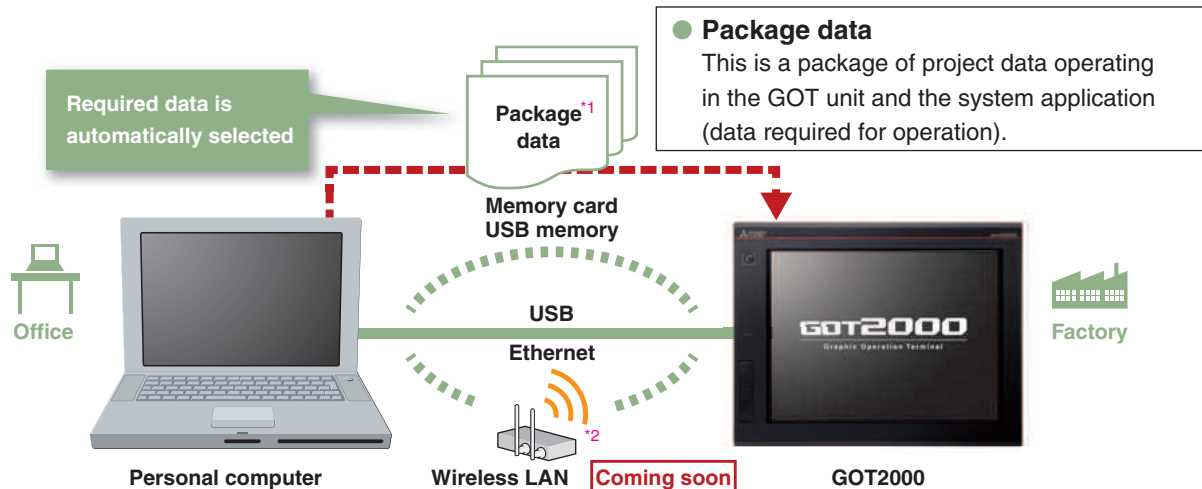
Easily send project data just by clicking the GOT write button.

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.



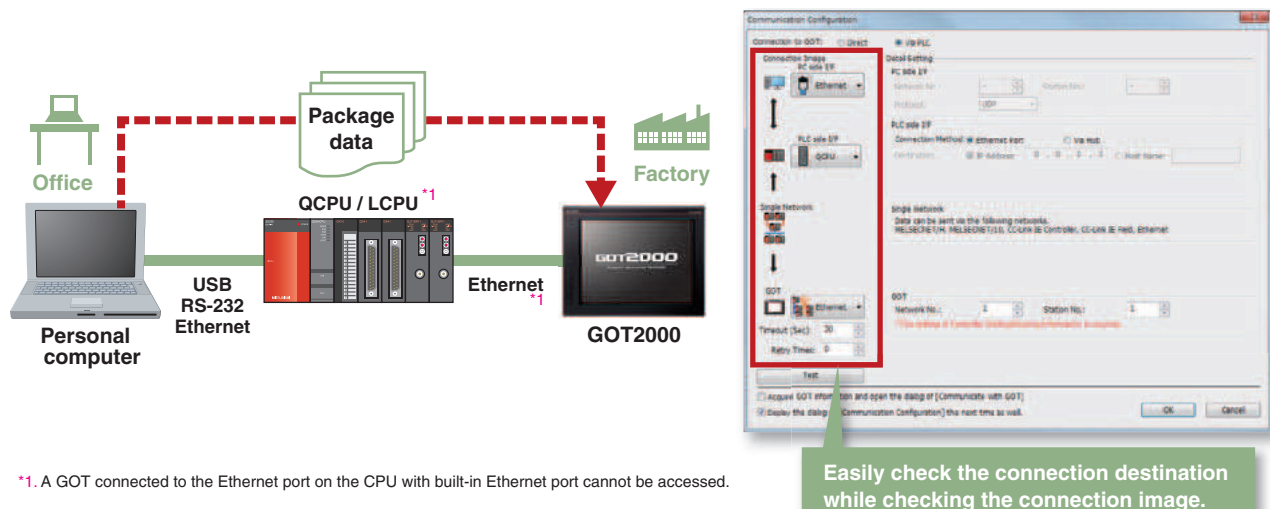
*1. With GOT1000, the project data and required OS are transferred.

*2. Supported only with GOT2000. A wireless LAN communication unit (GT25-WLAN) must be mounted on the GOT unit.

When sending data with the wireless LAN, peripheral devices and systems in the area can cause packet loss or transmission could be unstable compared to a cabled connection. Always check the operation before starting use.

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

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



*1. A GOT connected to the Ethernet port on the CPU with built-in Ethernet port cannot be accessed.

Procedure: [Communication (C)] ⇒ [Write to GOT (W)]

Shortcut key: Shift + F11

Easy simulations!

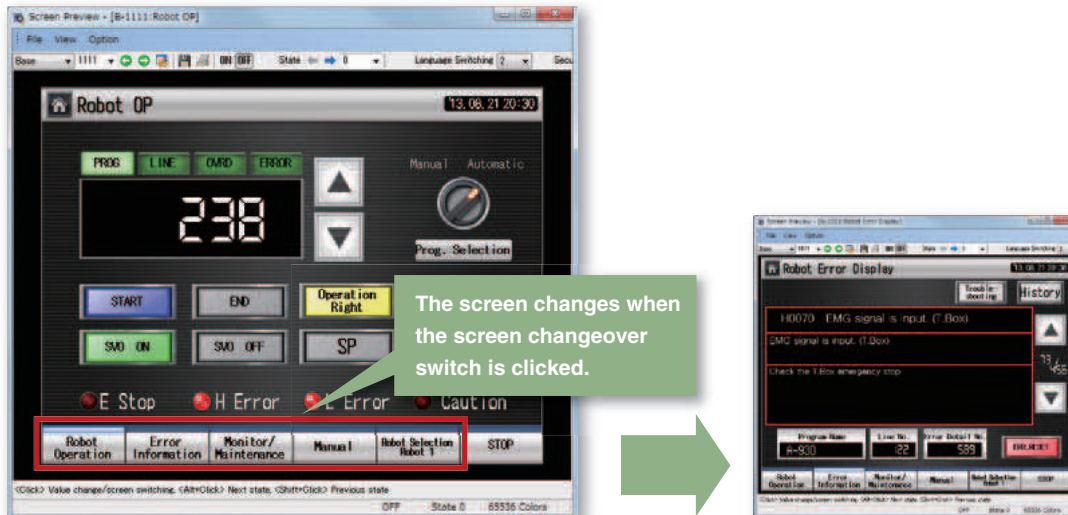
Screen preview

GOT2000
GOT1000

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

Random screen images can be printed or saved as bitmaps making it easy to create specifications and operation guides.

<Confirming the screen changeover switches>



<Lamp/switch display (ON/OFF) changeover>

OFF

ON

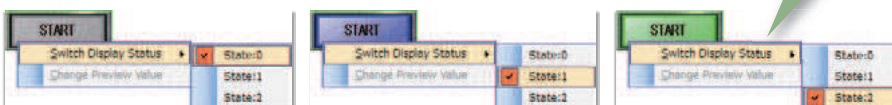


<Lamp/switch display (condition) changeover>

Condition 0

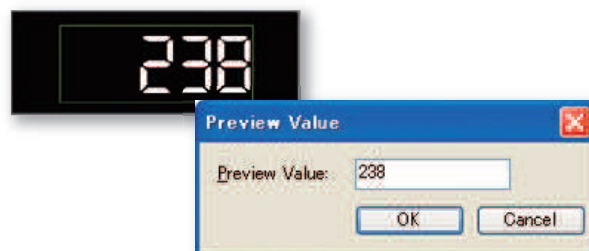
Condition 1

Condition 2



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

<Changing the numeric display/input preview value>



Procedure: [View (V)] → [Preview (P)]

Shortcut key: Ctrl + I

Check operations with a single click!

Simulator

GOT2000
GOT1000

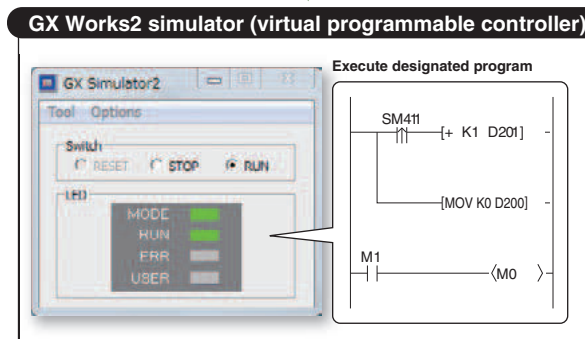
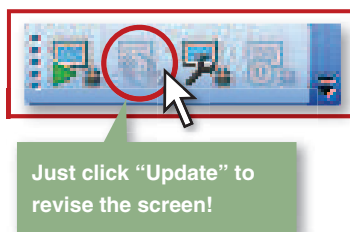
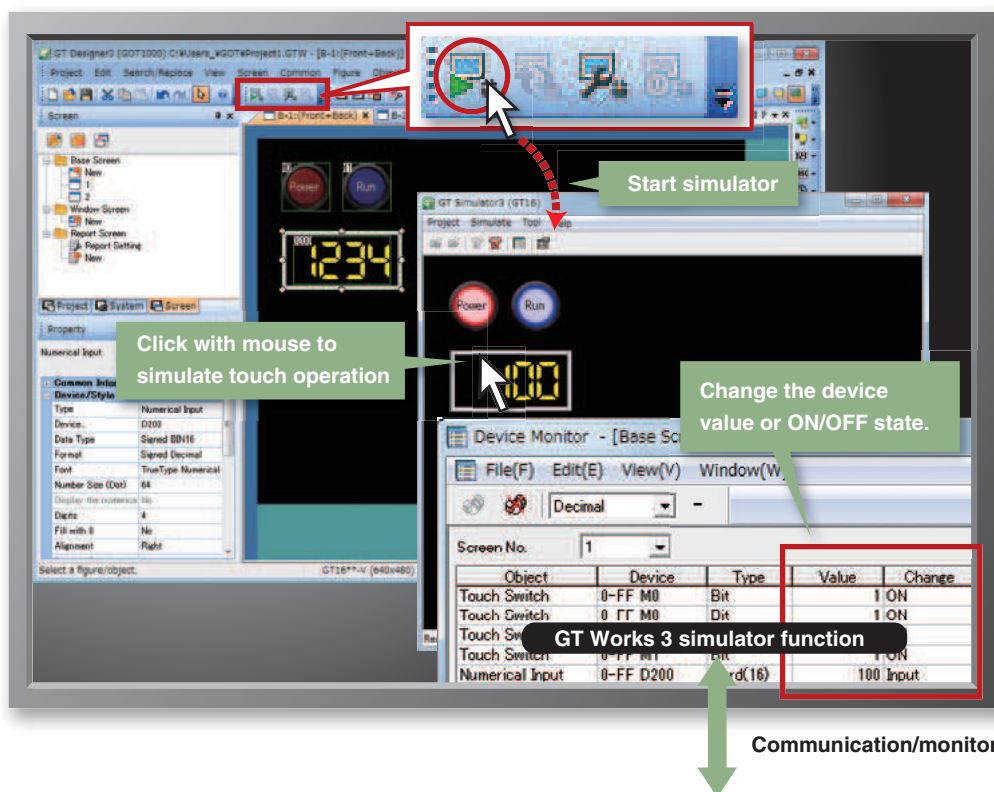
Since the project data's operation can be confirmed on the personal computer, the program can be efficiently debugged while making changes on the screen.

Even if an actual machine is not available, the operations can be confirmed with a personal computer and sequence program.

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

* The separate GX Works2 or GX Simulator is required.

* The GOT2000 device monitor is coming soon.



Procedures: [Tool (T)] → [Simulator (A)] → [Start (A)]

Shortcut key: Ctrl + F10

Preventing your valuable data from leaking or being changed

Ver.UP Security

GOT2000
GOT1000

Users having access to project data can be limited.

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

Access rights can be set in project units or screen units.

* Project data for which security is set with GT Works3 Version 1.43V or higher cannot be handled with GT Works3 Version 1.43V or older.

Setup Access Authority

Allow access to access objects, and then click [OK].

Access Authority

Access Object

☒ Set for each category

Project1

Base Screen

1 Base screen 1

2 Base screen 2

3 Base screen 3

Window Screen

Script

Access Authority(Project Whole)

Access Level	Display	Edit
Administrators	Enable	Enable
Developers(Level 3)	Enable	Enable
Developers(Level 2)	Enable	Disable
Developers(Level 1)	Enable	Disable
Users	Enable	Disable

Description of Access Authority

Display...Display project data

Edit...Edit project data

OK Cancel

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

Maintenance supervisor Administrator

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

Users Users

This data cannot be confirmed.

✗ Open project

✗ Edit project

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

Procedure:[Project (P)] ➔ [Security (E)]

Further reduce total costs

MELSOFT iQ Works

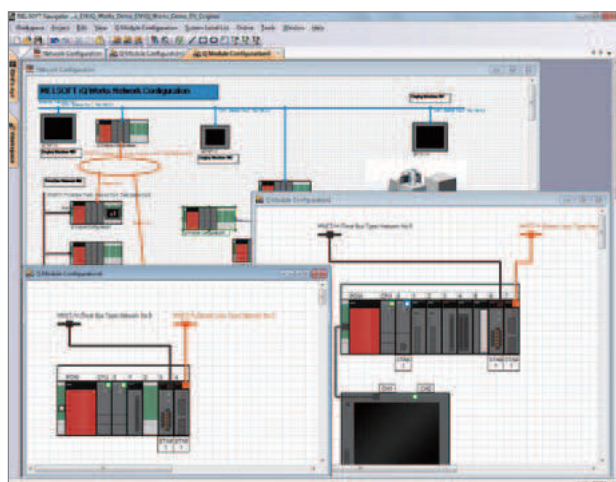
GOT2000
GOT1000

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.

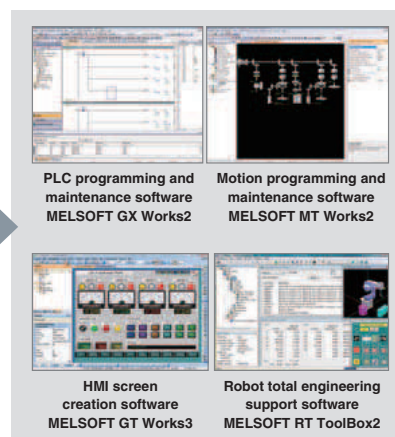
MELSOFT Navigator

MELSOFT Navigator, used with GX Works2, MT Works2, GT Works3 or RT ToolBox2, creates an interlink with the system's upstream designs or between each software.

Convenient functions include system configuration designing, parameter group setting, system labeling and group reading.



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 Integral 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

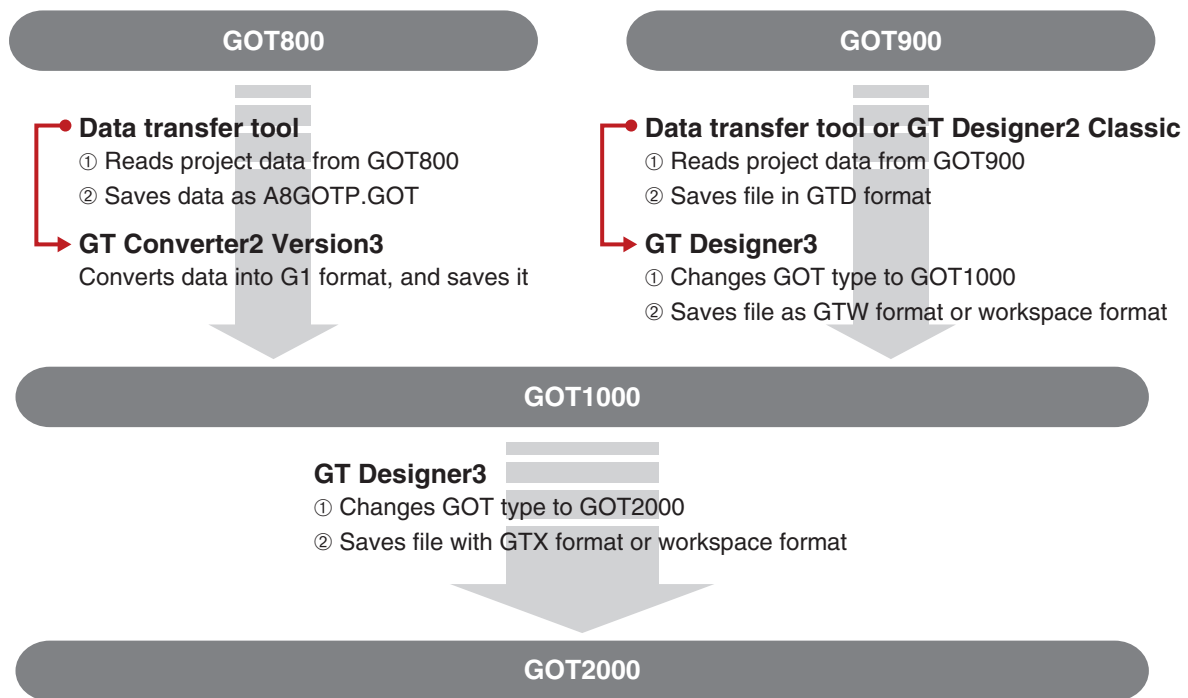
improved Quality(high quality)/intelligent&Quick(high function & high speed)/innovation&Quest(innovation & exploration)

Effectively use screen assets!

Project data reuse

GOT2000
GOT1000

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

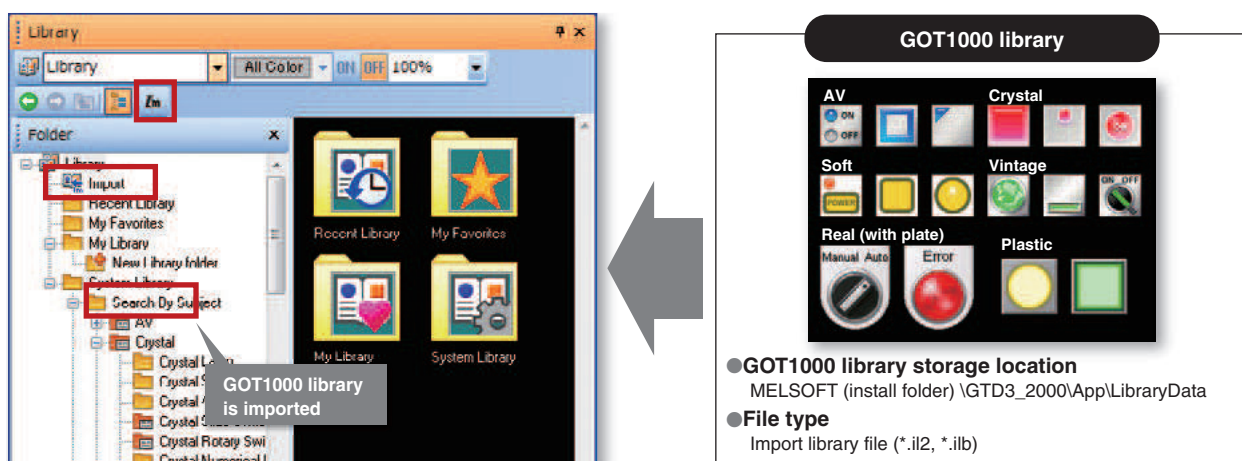


Utilize library data used with GOT1000!

Library data reuse

GOT2000
GOT1000

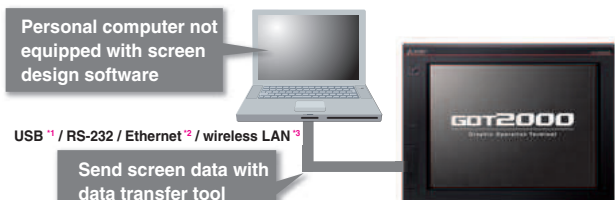
Library data and template data for GOT1000 can be imported into the GOT2000's system library. Design new screens for GOT2000 while continuing to use screen images for existing models.



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.
(Enclosed with GT Works3. Available for download for free from Mitsubishi Electric FA website.)



*1. GOT2000 and GOT1000 only

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

*3. Supported only with GOT2000. A wireless LAN communication unit (GT25-WLAN) must be mounted on the GOT unit.

When sending data with the wireless LAN, peripheral devices and systems in the area can cause packet loss or transmission could be unstable compared to a cabled connection. Always check the operation before starting use.

- **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

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



- **Compatible conversion source screen design software**
For GOT800 Series (SW3NIW-A8GOTP)
Digital Electronics Corporation (GP-PRO/PB III Series)

* There are data and functions that cannot be converted.

GOT900 Series screen design software

GT Designer2 Classic

Read, write and edit the GOT900 Series project data.
(Available for download for free from Mitsubishi Electric FA website)



Operating environment / Product list

MELSOFT GT Works3 Operating environment

Item	Specification
Model	Personal computer that Windows® runs on.
OS(English version)	Microsoft® Windows® 8 (Enterprise, Pro) (32 bit, 64 bit) ^{*1*2*4*5*6}
	Microsoft® Windows® 8 (32 bit, 64 bit) ^{*1*2*4*5}
	Microsoft® Windows® 7 (Ultimate, Enterprise, Professional, Home Premium) (32 bit, 64 bit) ^{*1*2*3*4}
	Microsoft® Windows® 7 Starter (32 bit) ^{*1*2}
	Microsoft® Windows Vista® (Ultimate, Enterprise, Business, Home Premium, Home Basic) (32 bit) Service Pack1 or later ^{*1*2}
	Microsoft® Windows® XP (Professional, Home Edition) (32 bit) Service Pack2 or later ^{*1*2}
	Microsoft® Windows® 2000 Professional Service Pack4 or later ^{*1}
CPU	1GHz or faster recommended
Memory	Windows® 8(64 bit), Windows® 7(64 bit): 2GB or more recommended
	Windows® 8(32 bit), Windows® 7(32 bit), Windows Vista®(32 bit): 1GB or more recommended
	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

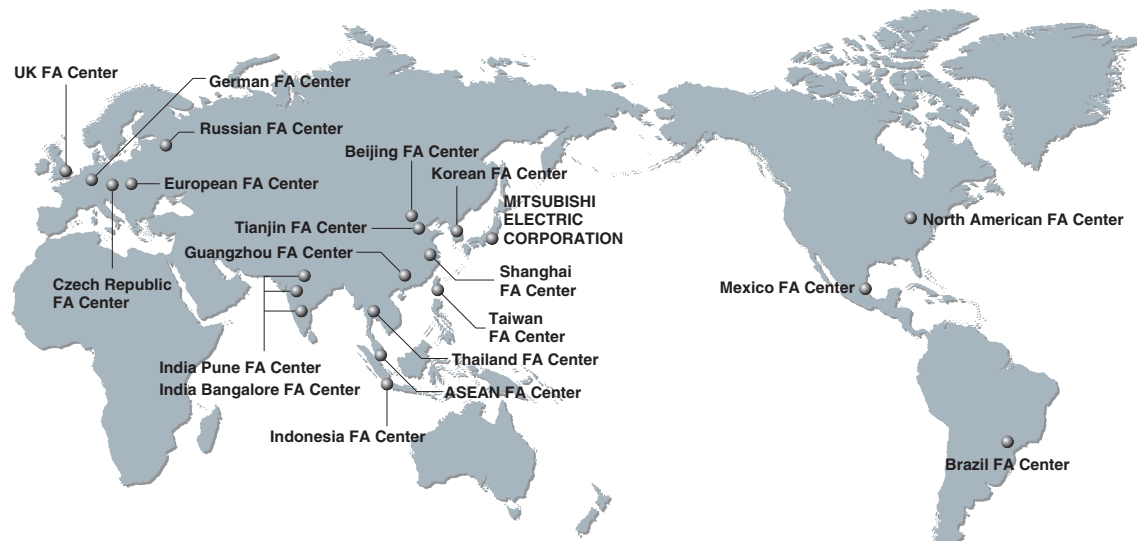
- ^{*1} For installation, the administrator authority is required.
For Windows® 8, Windows® 7 and Windows Vista®, the standard user or administrator account is required.
To interact GT Designer3 with other MELSOFT applications which are used under the administrator authority, use GT Designer3 under the administrator authority.
- ^{*2} 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)
- ^{*3} Windows XP® Mode is not supported.
- ^{*4} Windows® Touch is not supported.
- ^{*5} Modern UI Style is not supported.
- ^{*6} Hyper-V is not supported.

Product list

Product name	Model name	Contents		
HMI screen design software MELSOFT GT Works3 ^{*1}	SW1DND-GTWK3-E	English version	Standard license product	DVD-ROM
	SW1DND-GTWK3-EA		Multiple-license product ^{*2}	
	SW1DND-GTWK3-EAZ		Additional license product ^{*2 *7}	
FA Integrated Engineering Software MELSOFT iQ Works ^{*1 *3 *4}	SW1DND-IQWK-E	English version	Standard license product (Version1.77F or later)	DVD-ROM
License key for GT SoftGOT2000 ^{*5}	GT27-SGTKEY-U	For USB port		
PC remote operation function (Ethernet) license ^{*6}	GT25-PCRAKEY	1 license		
VNC® server function license ^{*6}	GT25-VNCSKEY	1 license (License for GOT remote access function)		
MES interface function license ^{*6}	GT25-MESKEY Coming soon	1 license		

- ^{*1} CD-ROM product is also available. For inquiries, please contact your local sales office.
- ^{*2} The desired number of licenses (2 or more) can be purchased. For details, please contact your local sales office.
- ^{*3} Multiple-license product and additional license product are also available. For more details, please refer to the MELSOFT iQ Works catalog (L(NA)08232).
- ^{*4} 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]
- ^{*5} To use GT SoftGOT2000, a license key for GT SoftGOT2000 is necessary for each personal computer.
- ^{*6} 1 license is required for 1 GOT unit.
- ^{*7} This product does not include the DVD-ROM. Only the license certificate with the product ID No. is issued.

Global FA Centers



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 District Yannawa, Bangkok 10120, Thailand
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India

India Pune FA Center
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India Bangalore FA Center
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 office 720; 195027, St. Petersburg, Russia
 Tel: +7-812-633-3497 / Fax: +7-812-633-3499

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 (FX _{3S}) to 64 k steps (FX _{3U} /FX _{3UC})
Number of input/output points	10 points (FX _{3S}) to 384 points (FX _{3U} /FX _{3UC} with CC-Link)
Basic instruction processing speed	0.21μs (FX _{3S}) to 65 ns (FX _{3U} /FX _{3UC})
External connection interface	RS-422, USB (FX _{3S} /FX _{3G} /FX _{3GC} /FX _{3GE} only), Ethernet (FX _{3GE} only), CC-Link/LT (FX _{3UC} -32MT-LT(-2) only)
Built-in functions	I/O, high-speed counter input, positioning pulse output, analog (FX _{3GE} 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-A700 Series



High-function, high-performance inverter

- ◎ High-accuracy, high-response speed control using real sensor-less vector control is possible with a general-purpose inverter having no PLG (encoder) (200% torque/0.3 Hz (3.7 K or less)).
- ◎ Full-scale vector control is possible when used in combination with a motor with PLG (when using option).
- ◎ The built-in noise filter (EMC filter) helps reduce noise generated from the inverter.
- ◎ This series supports IPM motor operation. Use auto tuning to operate with the optimum motor characteristics.

Product Specifications

Inverter capacity	200V class: 0.4kW to 90kW, 400V class: 0.4kW to 500kW
Control method	IPM control, Soft-PWM control, high-carrier frequency PWM control (Select from V/F, advanced flux vector, or real sensor-less vector), vector control (when using options)
Output frequency range	0.2 to 400Hz (real sensor-less vector, upper frequency during vector control is 120Hz)
PM offline auto tuning	When using the MM-CF Series, the motor constants, etc., are automatically measured for operation with the optimum motor characteristics (IPM motors other than the MM-CF Series, and other IPM motor brands are also supported)
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

List of shortcut keys

List of shortcut keys

Shortcut key	Operation	Icon	Tool bar	Menu
Ctrl + N	Create new project		Standard	Project
Ctrl + O	Open existing project		Standard	Project
Ctrl + S	Overwrite and save project being edited		Standard	Project
Ctrl + P	Display print setting dialog		Standard	Project
F1	Display help			
Ctrl + Z	Cancel last operation and return to previous state		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	Cancel group		Edit	Edit
Ctrl + L	Rotate selected image 90 degrees left		Edit	Edit, Rotate/Reverse
Ctrl + R	Rotate selected image 90 degrees right		Edit	Edit, Rotate/Reverse
(With image/object selected) Alt + ←→↑↓	Move 1 dot			
Tab	Select next object/figure			
Shift + Tab	Select previous object/figure			
Ctrl + Alt + P	Open previous screen		Screen	Screen
Ctrl + Alt + N	Open next screen		Screen	Screen
Ctrl + W	Close screen		Screen	
(With image/object selected) Alt + Enter	Open dialog box		Edit	Edit
(Over dialog) Ctrl + Page Up	Switch tab to left			
(Over dialog) Ctrl + Page Down	Switch tab to right			
(Over comment list) Alt + N	Add comment line			
(Over screen editor) Ctrl + I	Show screen preview		Display	
F7	Switch ON/OFF display on screen editor		Display	
Alt + 0(zero)	Switch project tree show/hide state		Display	
Alt + 1(one)	Switch property sheet show/hide state		Display	
F9	Switch library list show/hide state		Display	
Ctrl + Shift + F	Switch reuse create (screen) show/hide state		Display	Display
Ctrl + F10	Start simulator		Simulator	Tool, simulator

Inquiry

Q Where should we contact if we are interested in purchasing this software?

A Please contact your nearest Mitsubishi Sales Office or dealer.

Q Where should we contact for technical information on the product?

A Mitsubishi has a telephone/fax center for each product.

These exclusive centers can provide you with the information you need right away.

GOT Display(MELSOFT GT Series)Center

TEL 052-712-2417 (Hours ^{*1}: Monday to Friday 9:00 to 19:00, Saturday, Sunday, holidays: 9:00 to 17:00)

FAX 052-719-6762 (Hours ^{*2}: 9:00 to 16:00 ^{*3})

^{*1}: Excluding spring, summer and year end/start holidays ^{*2}: Excluding Saturdays, Sundays, holidays, spring, summer and year end/start holidays

^{*3}: Faxes are accepted 24/7, excluding spring, summer and year end/start holidays

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 higher.

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

Please download the free update from the Mitsubishi website "Mitsubishi Electric FA website" → "Display GOT" → "Download".

Q Where can we find details on the product updates?

A Visit the Mitsubishi website "Mitsubishi Electric FA website" → "Display GOT" → "Download" to check details on the product update.

Q Is the software available in languages other than Japanese?

A GT Works3 is available in English, and can be shipped overseas without worry.

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 GOT1000 Series screen data, and thus cannot be used with the GOT1000 Series.

Q Is a trial version available?

A A trial version can be downloaded from the Mitsubishi website "Mitsubishi Electric FA website" → "Display GOT" → "Download". The trial version is valid for 20 days.

Please read the "Cautions for Use" in the trial version download corner for various precautions regarding the trial version.

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また画面においても、はめ込み合成のため実際の表示と異なる場合があります。

次回差し替えます



Mitsubishi iQ Platform Compatible 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.

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