



for a greener tomorrow

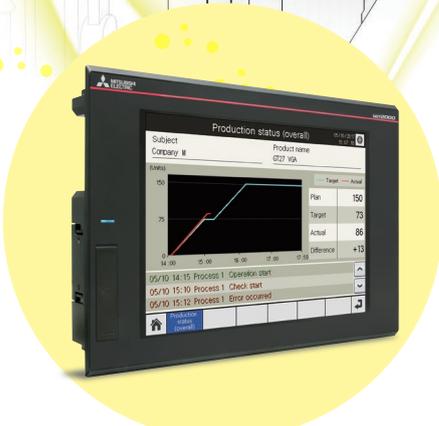
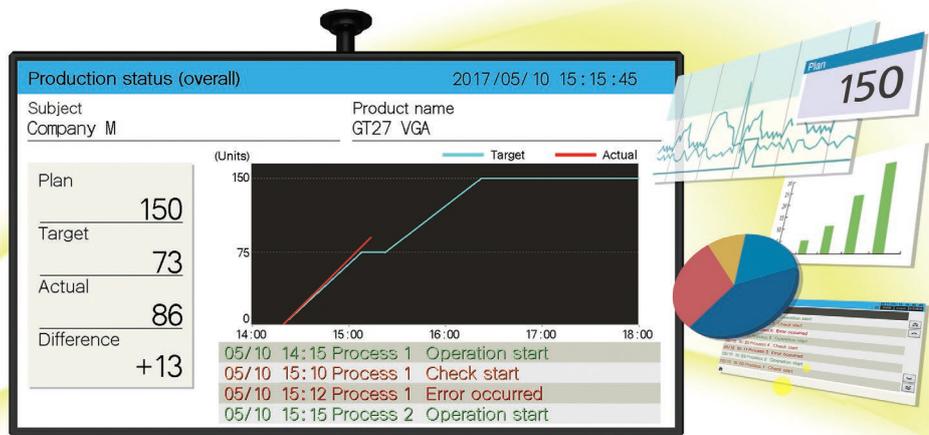
FA Application Package

iQ Monozukuri ANDON

ANDON system achieves visualization of production sites



Solving issues of process management and information distribution in the production site
Improve productivity by sharing information between workers!

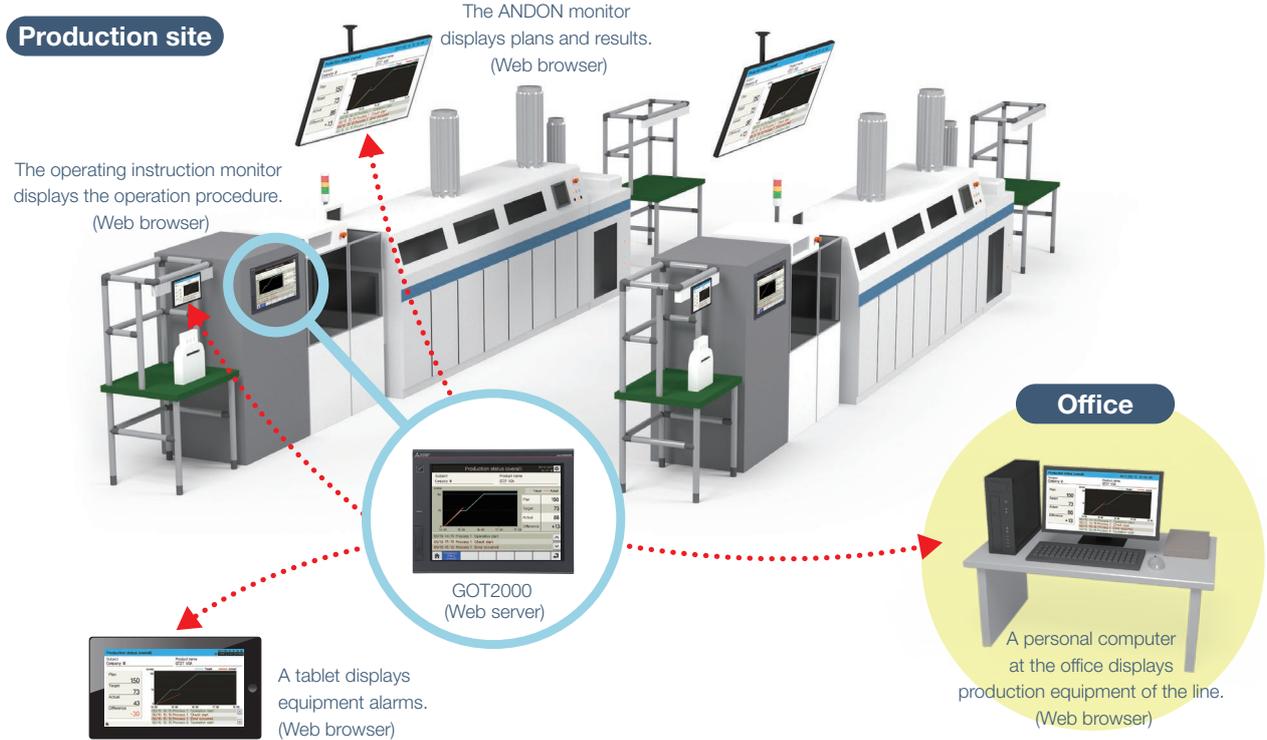


- Display ANDON easily
- Visualize production from a remote location
- Reduce the total system cost

What is iQ Monozukuri ANDON?

This simple ANDON* package easily enables visualization of production sites using GOT2000 and a general-purpose web browser. Information obtained from production equipment is displayed on the monitor for ANDON via GOT2000, allowing sharing of the production site information to enable visualization.

* ANDON system visualizes information (production status, alarms) that is obtained from production equipment, sharing the information among site workers, a manager, and a maintenance personnel.

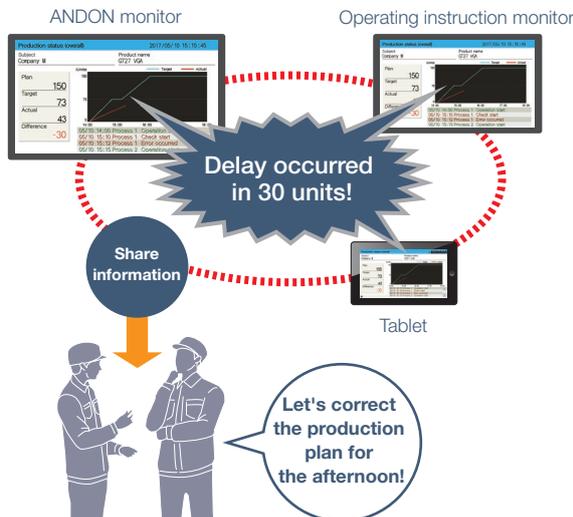


Sharing information to facilitate work

By sharing information among site workers, site manager, and the maintenance personnel at the office, operation processes can be reviewed and corrected smoothly in the event of a problem.

Easily display production plans and bulletin boards without technical knowledge of ANDON

The dedicated setting tool (Contents Publisher) allows you to set/change the display of ANDON screens even without programming knowledge for configuring the ANDON system.



Time	Task
9 am	Domestic_Next Day Delivery - GT2712 STBD : 100 Unit
10:00	Video: Check Procedures
11:00	Domestic_Next Day Delivery - GT2712 STBD : 80 Unit
12 pm	June Information
1:00	DANDORE GT27 SVGA
2:00	DANDORE GT25 VGA
3:00	East Asia_GT25 SVGA - GT2512 STBA : 150 Unit(s)

Plan	Actual	Difference
150	73	+13
Target	73	Actual

Production status

Signage screen (bulletin board)

No Overtime Day

Leave Your Office by 6 PM

iQ Monozukuri ANDON solves issues at the production site!

At the time of system design and installation

Make the information of various equipment visible.

Minimize the cost of configuring the ANDON system.

In creation of ANDON screens

Creating screens is troublesome. It is time consuming to do so from scratch.

In operation (Preparation/Application)

Display the ANDON screen that matches the production plan.

Visualize the production plan and actual volume in real time.

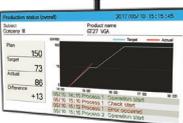
In operation (Application)

Check the production status easily without being at the site.

1 Easily install the ANDON system!

➔ If you have equipment that can be connected to GOT2000, an ANDON system can be configured easily.

➔ iQ Monozukuri ANDON achieves visualization at low cost.



See page 4

2 Easily create and customize screens!

➔ Ready-to-use template screens of the ANDON monitor are included in the package.

The color and layout of display information can be changed easily.



See page 5

3 Easily operate at the production site!

➔ Using Contents Publisher enables you to easily set and display production plans and signage screens (bulletin board and others) even without technical knowledge of ANDON.

➔ Progress charts are used to visualize the production plan and actual volume, and this can catch problems at an early stage.

See page 7

See page 10

4 Visualize production from a remote location!

➔ The production status and error handling methods can be displayed on a tablet.

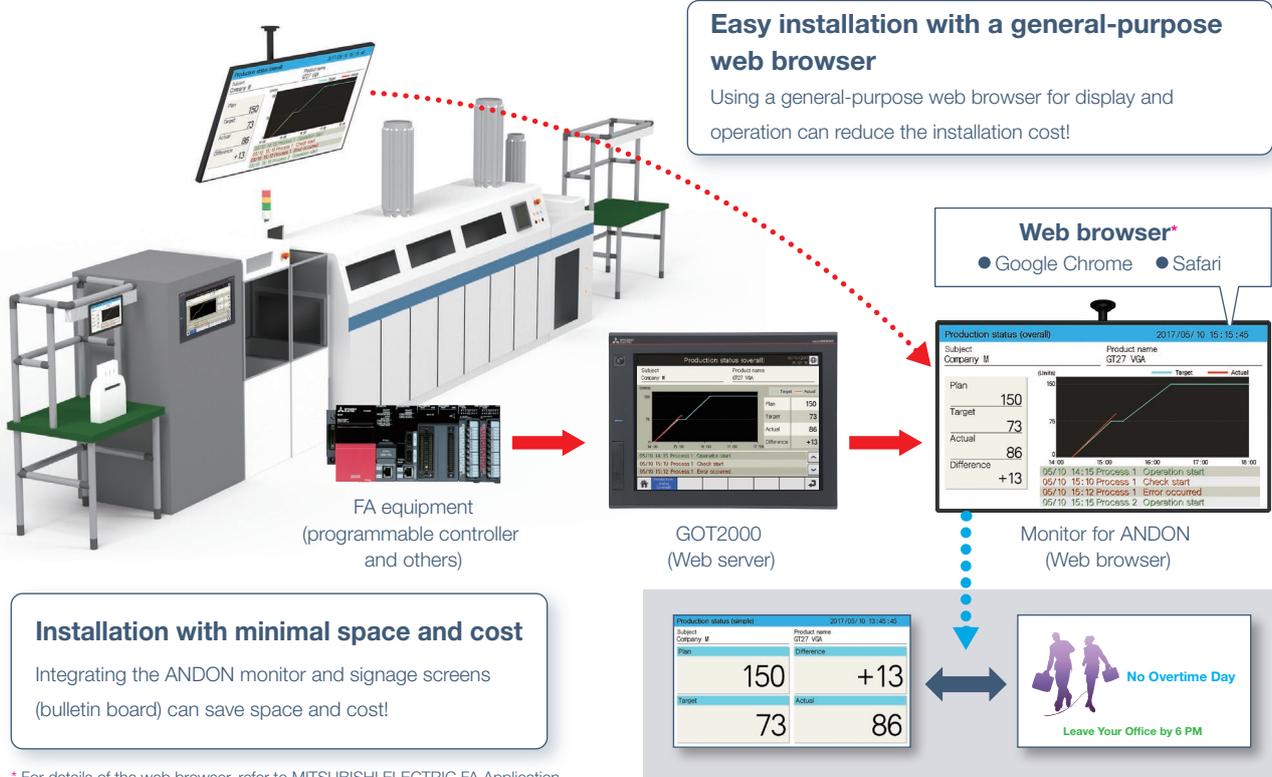


See page 11

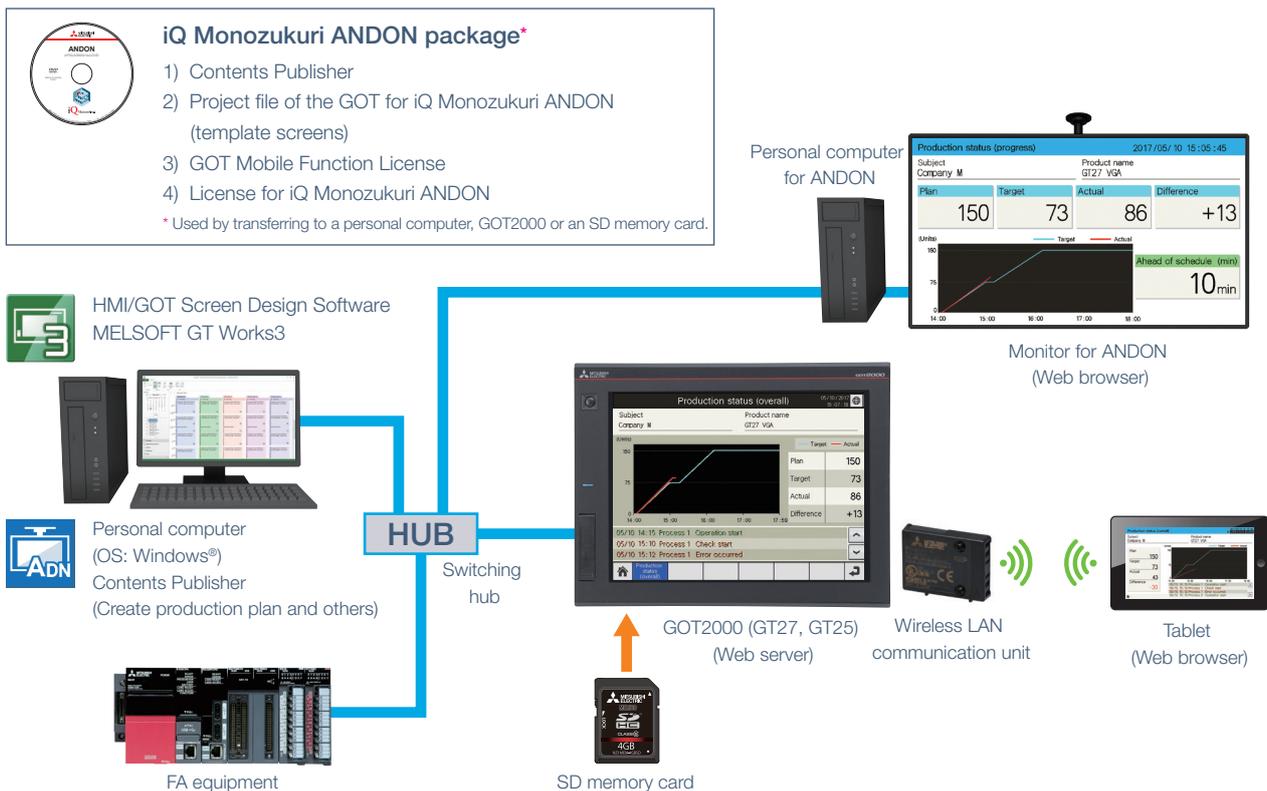
1 Easily install the ANDON system!

If you have equipment that can be connected to GOT2000, an ANDON system can be configured easily.

1 Easily install the ANDON system!



System configuration example



2 Easily create and customize screens!

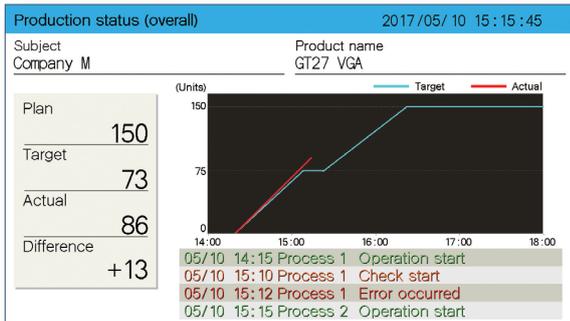
Template screens of the ANDON monitor are included in the package

Template screen

The screens frequently used at production sites are provided as templates, such as Production status screen, DANDORI* screen, and Uptime status screen (two types, for ANDON and for remote ANDON). Template screens are easily customized by using the screen design software for GOT (GT Works3).

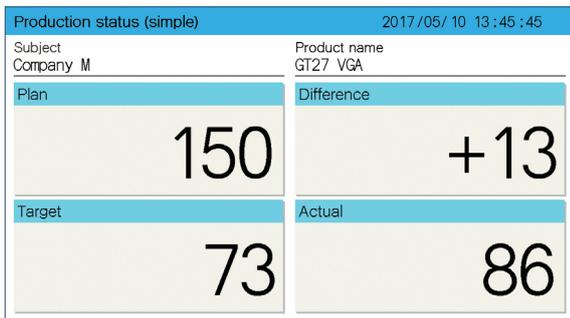
* DANDORI means replacing a production tool and machine or changing settings when switching products to be produced.

Production status (overall) screen



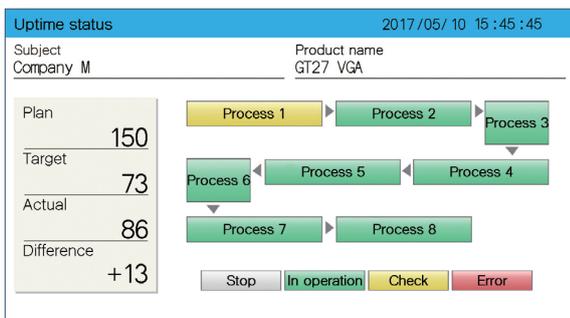
This screen displays the target quantity and production results graphically in a progress chart, which can be used to check progress and production delays. Events and alarm occurrence status can be checked on the same screen.

Production status (simple) screen



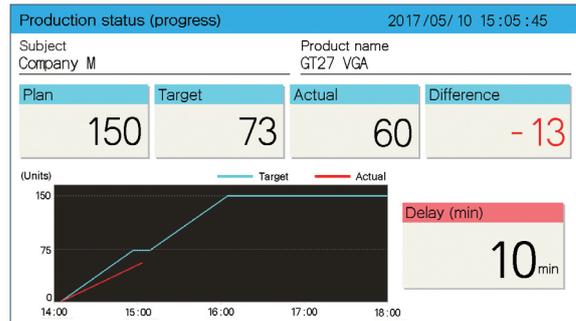
As with the general ANDON screen, this screen displays the production status in numerical values only. Numerical values are enlarged to enhance the visibility of the production status.

Uptime status screen



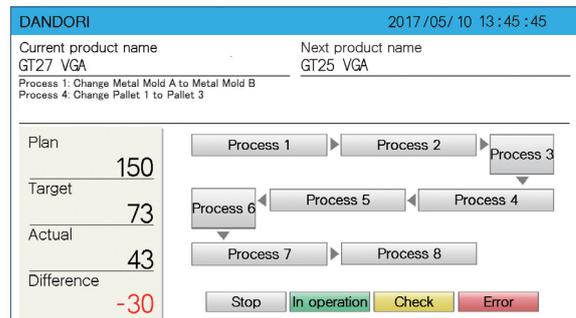
This screen displays the production results of the production line in operation in numerical values, and also displays the status of various processes in different colors.

Production status (progress) screen



In addition to graphs in progress charts, this screen displays ahead of schedule time or delays in numerical values. Even though the site area is large, the numerical values are displayed large so that they can be seen from a distance.

DANDORI screen



This screen displays messages necessary for DANDORI and the product names before and after DANDORI.

Event history screen



This screen displays a list of the events (such as start and stop operation of the equipment) that occurred in the production line.

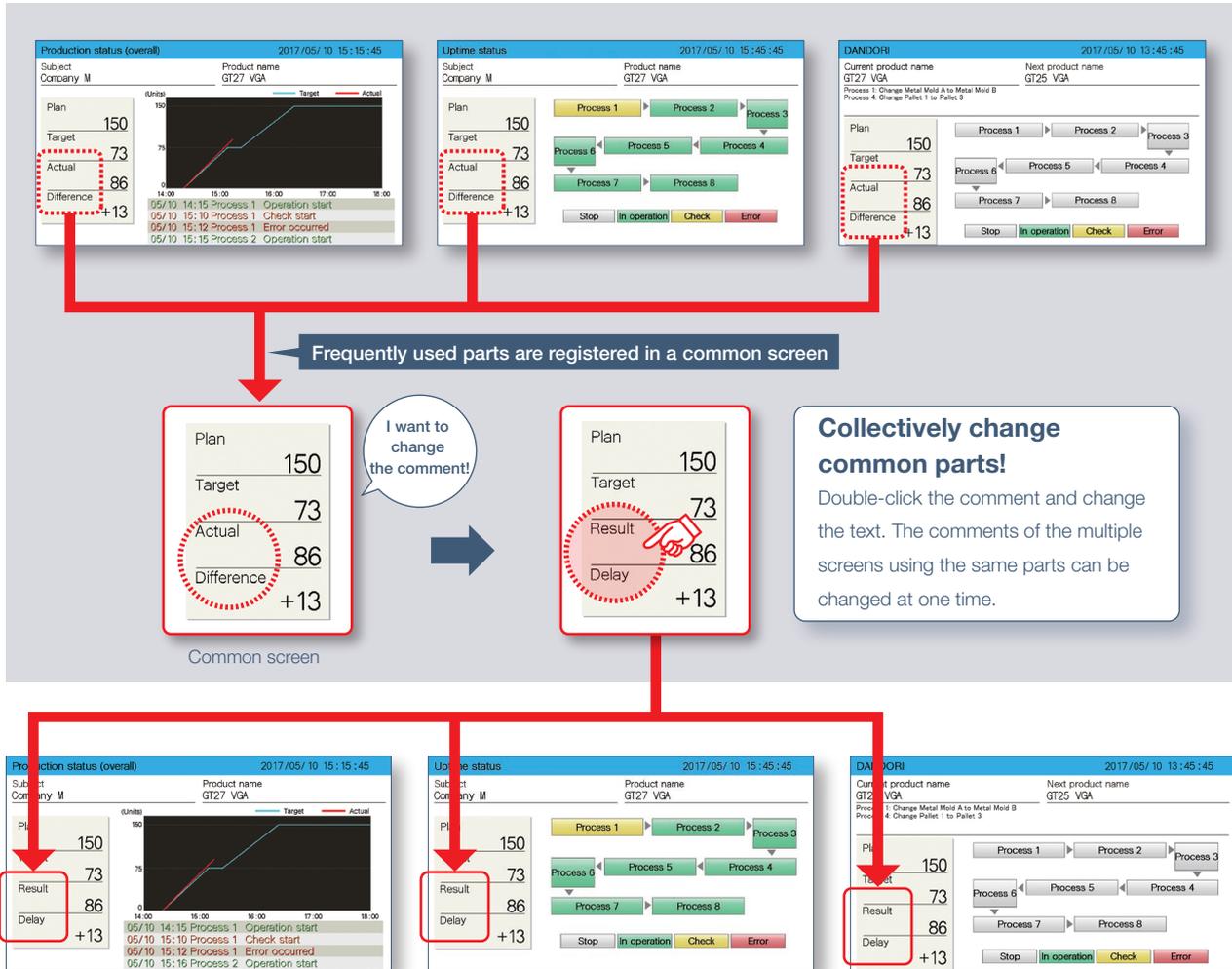
Easily change template screens collectively!

Template screen/GT Works3

In template screens, parts used in multiple screens are registered as common parts so that the displayed information can be changed collectively.

2

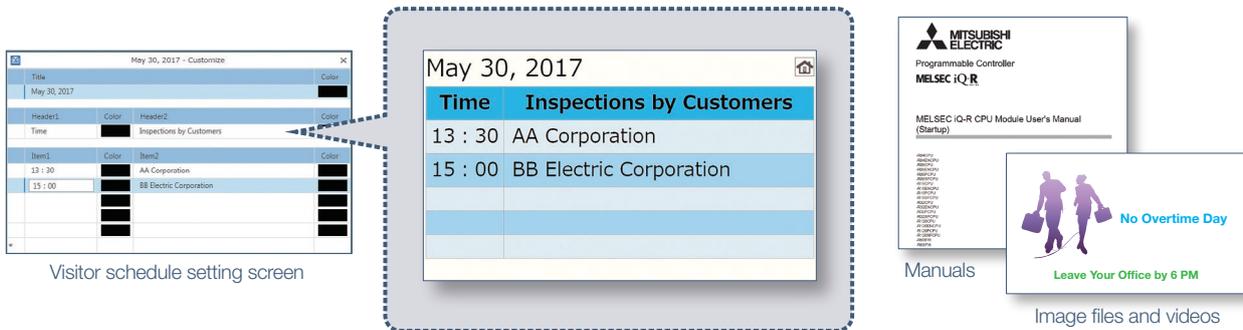
Easily create and customize screens!



Easy display setting of signage screens! (bulletin boards and others)

Contents Publisher

By displaying the visitor schedule, notifications, and equipment maintenance notifications on signage screens (bulletin board and others), information can be given timely. Displayed information is set using the Contents Publisher*.



* Contents Publisher is a tool to configure the ANDON system, which easily updates schedules and information on a bulletin board without technical knowledge of programming.

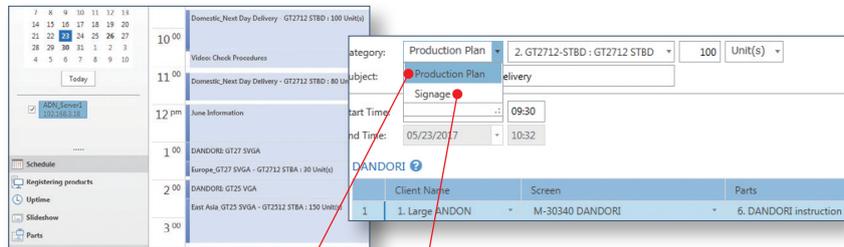
3 Easily operate at the production site!

Using the Contents Publisher, it is possible to set the contents (such as production plan, uptime status, and messages) to be displayed on the ANDON monitor easily.

Setting schedule

You can easily set up the DANDORI instruction screen according to the production plan and the screen you want to display on the signage screen (bulletin board, etc.).

Contents Publisher



Set a display screen that matches the production plan.

Set a bulletin board to be displayed on a signage.



Image of setting schedule and ANDON display

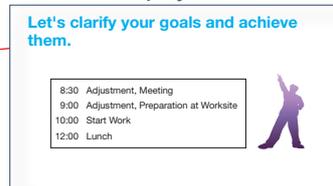
Contents Publisher

According to the schedule settings, the ANDON display is switched in order.

Schedule

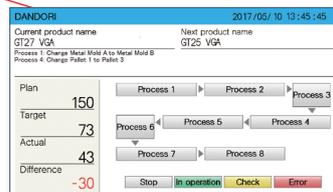


ANDON display



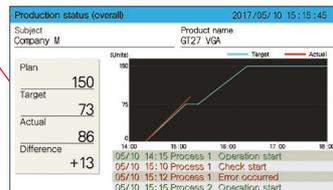
Signage screen

Displays a bulletin board for messages and operating instruction text.



DANDORI screen

Displays the product name and details of DANDORI.



Production status screen

Displays the difference between the target quantity and production result in a graph (progress chart). Also, events and alarm occurrence status are listed.



Slideshow

Displays multiple screens such as a product image and operation procedure video in turn in certain intervals.

How to set Contents Publisher

Contents Publisher

The ANDON screen display can be set and changed using easy settings of Contents Publisher even without programming knowledge for configuring the ANDON system.

1) Registering GOT

Register the information of GOT, which is the server that manages ANDON.

GOT registration screen

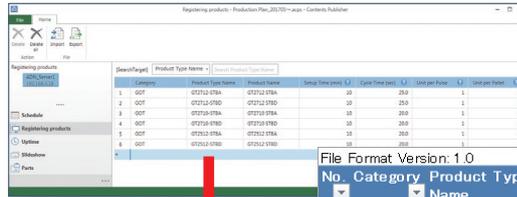


2) Registering product information

Register the information of a product to be produced.

In addition to directly inputting information to Contents Publisher, you can also export information to an Excel file (.xlsx), edit product information collectively, and then import the data.

Input screen of Contents Publisher



Exported Excel file

File Format Version: 1.0

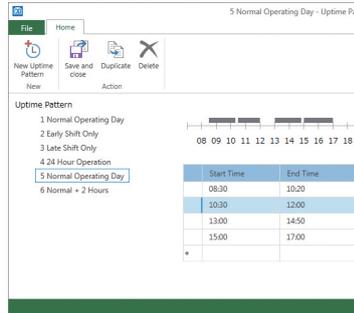
No.	Category	Product Name	Product Type	Product Name	Setup Time (min)	Cycle Time (sec)
1	GOT	GT2712-STBA	GT2712 STBA		10	25
2	GOT	GT2712-STBD	GT2712 STBD		10	25
3	GOT	GT2710-STBA	GT2710 STBA		10	20
4	GOT	GT2710-STBD	GT2710 STBD		10	20
5	GOT	GT2512-STBA	GT2512 STBA		10	20
6	GOT	GT2512-STBD	GT2512 STBD		10	20

Exporting information from Contents Publisher

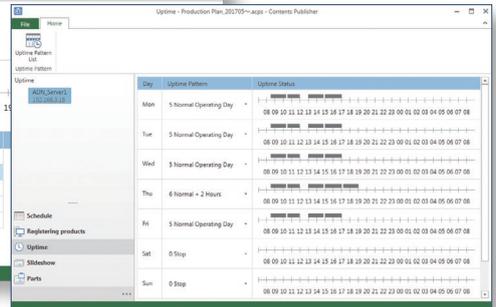
3) Setting uptime

Set the uptime pattern (working hours, rest period and others) of the production site for a day and for a week.

Uptime pattern for a day



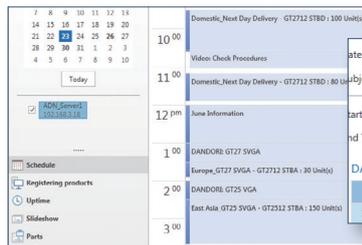
Uptime pattern for a week



4) Setting schedule

Set the schedule based on the production plan.

Schedule



Setting schedule

5) Transferring schedule

Transfer the set schedule to the GOT and realize ANDON display.

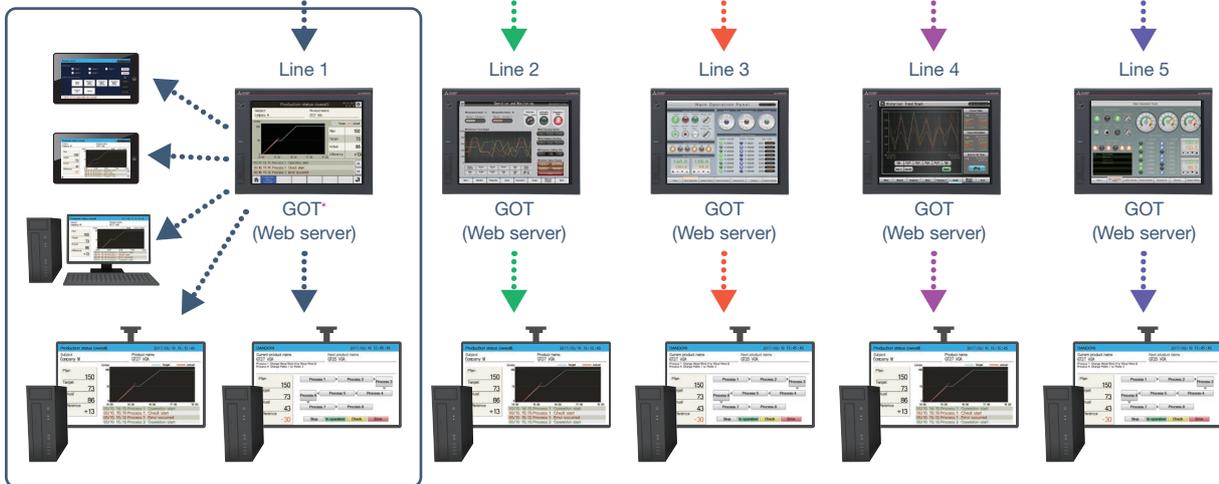
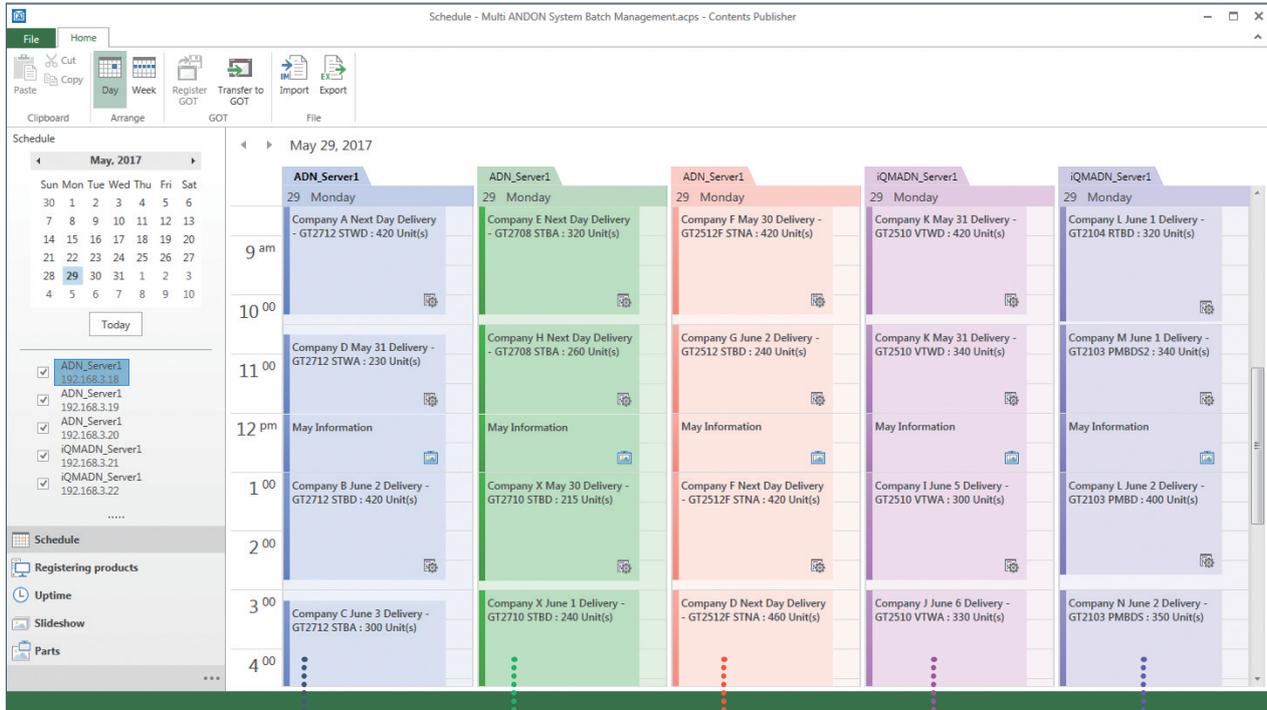


Manage multiple ANDON systems collectively!

Contents Publisher

By registering multiple ANDON GOTs, screens displayed on ANDON can be managed collectively. (Up to five GOTs)

Contents Publisher manages multiple ANDON GOTs that are installed in the same equipment or the same production line so that it is possible to collectively reflect changes of information about production plans and bulletin boards.



* Up to five clients (display terminals) can display ANDON data through one GOT (Web server).

3 Easily operate at the production site!



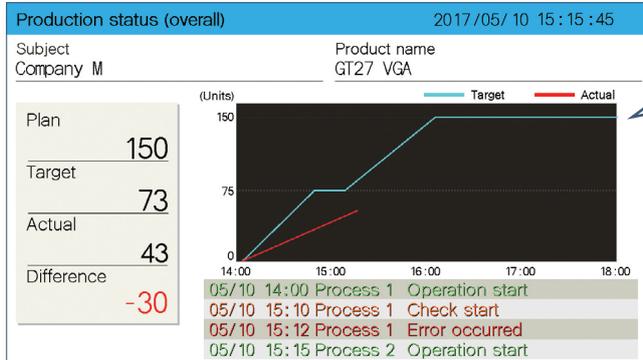
Tip!
When you want to change the schedule (production plan or signage screens) collectively, you can export the schedule and collectively change it in Excel.

Exported Excel file

Start Date	Start Time	End Date	End Time	GOT Name	GOT IP	Subject	Category	Product	Production Quantity	Production Unit
2017/5/29	8:30 AM	2017/5/29	10:20 AM	ADN_Server1	192.168.3.18	Company A Next Day Delivery	Production Plan 1	GT2712-STWD	420	Unit(s)
2017/5/29	10:40 AM	2017/5/29	12:00 PM	ADN_Server1	192.168.3.19	Company D May 31 Delivery	Production Plan 2	GT2712-STWA	230	Unit(s)
2017/5/29	1:00 PM	2017/5/29	2:50 PM	ADN_Server1	192.168.3.18	Company B June 2 Delivery	Production Plan 3	GT2712-STBD	420	Unit(s)
2017/5/29	3:10 PM	2017/5/29	5:00 PM	ADN_Server1	192.168.3.18	Company L June 3 Delivery	Production Plan 4	GT2712-STBA	300	Unit(s)
2017/5/29	12:01 PM	2017/5/29	1:00 PM	ADN_Server1	192.168.3.18	May Information	Signage			
2017/5/29	8:30 AM	2017/5/29	10:20 AM	ADN_Server1	192.168.3.19	Company E Next Day Delivery	Production Plan 2	GT2708-STBA	320	Unit(s)
2017/5/29	10:30 AM	2017/5/29	12:00 PM	ADN_Server1	192.168.3.19	Company H Next Day Delivery	Production Plan 2	GT2708-STBA	260	Unit(s)
2017/5/29	1:00 PM	2017/5/29	2:50 PM	ADN_Server1	192.168.3.19	Company G June 2 Delivery	Production Plan 2	GT2710-STBD	240	Unit(s)
2017/5/29	3:00 PM	2017/5/29	5:00 PM	ADN_Server1	192.168.3.19	Company X May 30 Delivery	Production Plan 5	GT2710-STBD	215	Unit(s)
2017/5/29	12:01 PM	2017/5/29	1:00 PM	ADN_Server1	192.168.3.19	Company X May 30 Delivery	Production Plan 5	GT2710-STBD	240	Unit(s)
2017/5/29	8:30 AM	2017/5/29	10:20 AM	ADN_Server1	192.168.3.20	Company F May 30 Delivery	Production Plan 2	GT2512F-STNA	420	Unit(s)
2017/5/29	10:30 AM	2017/5/29	11:00 PM	ADN_Server1	192.168.3.20	Company G June 2 Delivery	Production Plan 3	GT2512F-STBD	240	Unit(s)
2017/5/29	1:00 PM	2017/5/29	2:50 PM	ADN_Server1	192.168.3.20	Company F Next Day Delivery	Production Plan 2	GT2512F-STNA	420	Unit(s)
2017/5/29	3:00 PM	2017/5/29	5:00 PM	ADN_Server1	192.168.3.20	Company D Next Day Delivery	Production Plan 2	GT2512F-STNA	460	Unit(s)
2017/5/29	12:01 PM	2017/5/29	1:00 PM	ADN_Server1	192.168.3.20	May Information	Signage			

Display production results in numerical values and in a graph (progress chart) Template screen

The production status (overall) screen displays the production planned value, target value, actual value, and the difference between the target and actual values numerically. Also, delays can be detected timely because the difference between the target value and production results can be checked graphically on a progress chart.



Delay occurred in 30 units

Visualizing problems

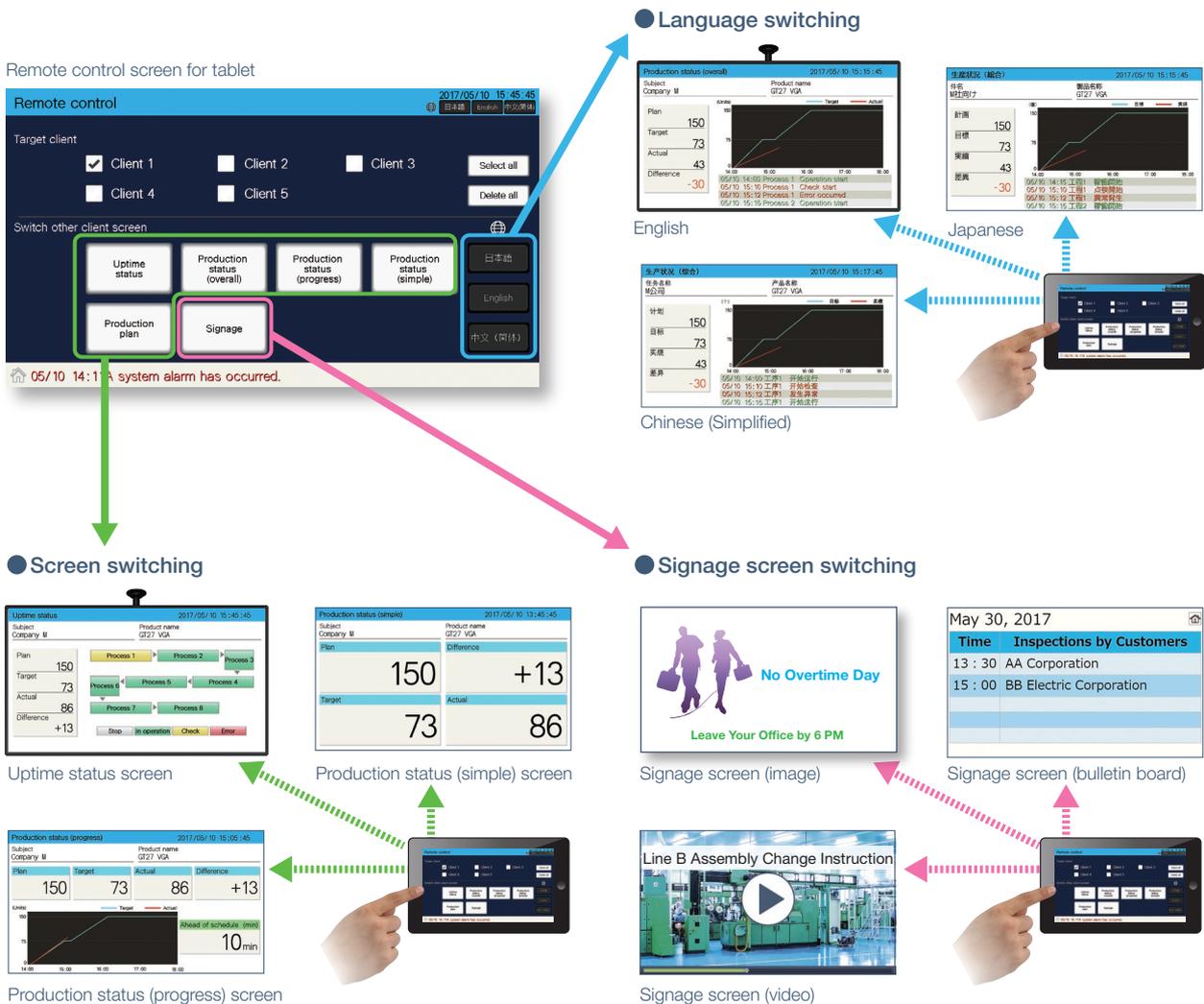
Production delays against the target and alarm occurrence status can be checked on the progress chart.

Planning measures

This screen is helpful to plan measures such as changing the production plan.

Switch ANDON screens by remote control operation from a tablet! Template screen

The display screen of the specified ANDON monitor and the display language can be switched by using remote control operation.



4 Visualize production from a remote location!

Visualization is realized throughout the production site!

The GOT Mobile function of GOT2000 realizes visualization at production sites and offices. By grasping the occurrence of a problem timely and performing smooth troubleshooting, you can improve the operation rate of equipment and productivity.

Production site

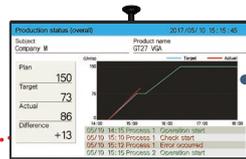
Operating instructions are visible on site

Workers at the production site can check operation procedures on the operating instruction monitor.

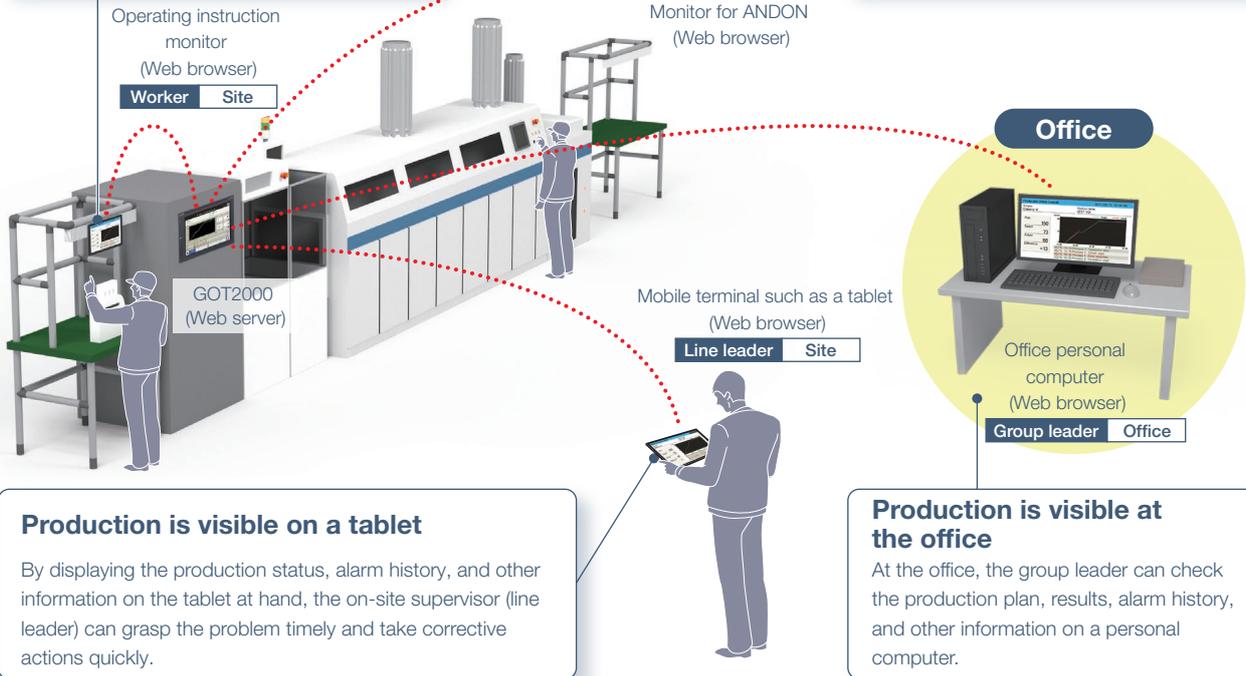
Operating instruction monitor
(Web browser)
Worker Site

The production status is visible on site

By displaying the production status on the ANDON monitor at the production site, all workers can share information.



Monitor for ANDON
(Web browser)



Production is visible on a tablet

By displaying the production status, alarm history, and other information on the tablet at hand, the on-site supervisor (line leader) can grasp the problem timely and take corrective actions quickly.

Mobile terminal such as a tablet
(Web browser)
Line leader Site

Production is visible at the office

At the office, the group leader can check the production plan, results, alarm history, and other information on a personal computer.

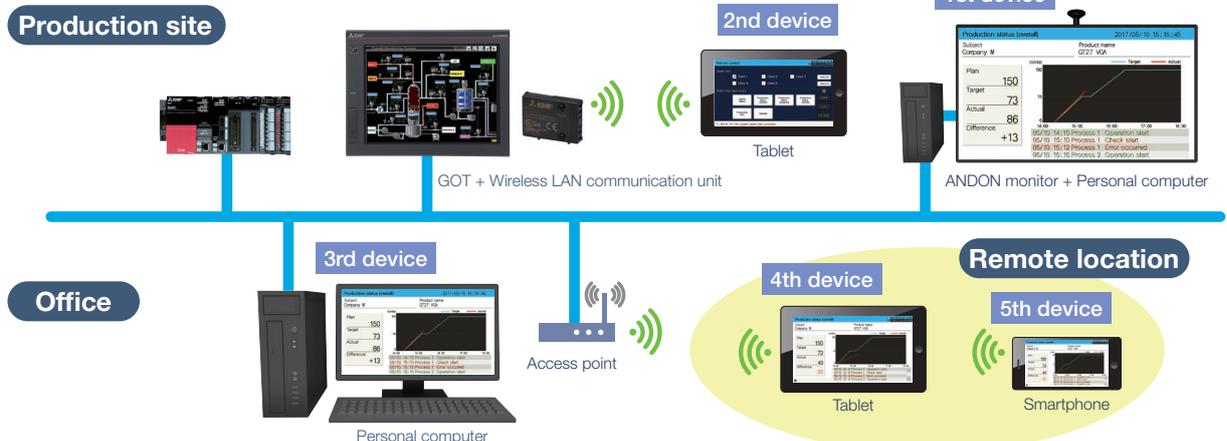
Office personal computer
(Web browser)
Group leader Office

Up to five information devices can simultaneously access one GOT!



With the GOT Mobile function, the status of equipment can be grasped from a remote location using a web browser on a tablet. Since five information devices can access the GOT at the same time and different screens can be displayed and operated respectively, it allows you to work (check/set) efficiently.

Production site



Office

3rd device

Personal computer

2nd device

Tablet

1st device

ANDON monitor + Personal computer

Remote location

4th device

Tablet

5th device

Smartphone

Product list

● Application packages

Component	Model	Description
iQ Monozukuri ANDON *1	AP30-ADN001AA-MA	1 license
	AP30-ADN001AA-MB	5 licenses
	AP30-ADN001AA-MC	10 licenses
	AP30-ADN001AA-MD	15 licenses
	AP30-ADN001AA-ME	20 licenses

*1 Contents Publisher, project file of the GOT for iQ Monozukuri ANDON, GOT Mobile function license, and the iQ Monozukuri ANDON license are included.

● Equipment necessary for system configuration: Products prepared by users

GOT: Any one of the following is required.

Component	Model	Screen size	
GT27	GT2715	15" XGA	
	GT2712	GT2712-STBA	12.1" SVGA
		GT2712-STBD	
		GT2712-STWA	
		GT2712-STWD *1	
	GT2710	GT2710-STBA	10.4" SVGA
		GT2710-STBD	
		GT2710-VTBA	10.4" VGA
		GT2710-VTBD	
	GT2708	GT2708-STBA	8.4" SVGA
		GT2708-STBD	
		GT2708-VTBA	8.4" VGA
GT2708-VTBD			
GT2705	GT2705-VTBD	5.7" VGA	
GT25	GT2512	GT2512-STBA	12.1" SVGA
		GT2512-STBD	
		GT2512F-STNA	
		GT2512F-STND	
	GT2510	GT2510-VTBA	10.4" VGA
		GT2510-VTBD	
		GT2510-VTWA	
		GT2510-VTWD *1	
		GT2510F-VTNA	
		GT2510F-VTND	
	GT2508	GT2508-VTBA	8.4" VGA
		GT2508-VTBD	
		GT2508-VTWA	
		GT2508-VTWD *1	
		GT2508F-VTNA	
		GT2508F-VTND	
	GT25 (Wide screen)	GT2510	10.1" WXGA
		GT2507	7" WVGA

*1 To conform to ATEX and KCs standards, options (protective seat and special fitting) are required separately. Communication units and option units cannot be used. For the details, please refer to the Technical Bulletin "GOT2000 Series in Compliance with the ATEX Directive and KCs Certification Requirements" No. GOT-A-0101.

The release date varies depending on the product and your region. For details, please contact your local sales office.

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.

Software: Any one of the following is required.

Component	Model
HMI/GOT Screen	SW1DND-GTWK3-E (English version, standard license product)
Design Software	SW1DND-GTWK3-EA (English version, volume license product *1)
MELSOFT GT Works3	SW1DND-GTWK3-EAZ (English version, additional license product *1*2)

*1 The desired number of licenses (2 or more) can be purchased. For details, please contact your local sales office.

*2 This product does not include the DVD-ROM. Only the license certificate with the product ID number is issued.

Memory card: Any one of the following is required.

Component	Model	Specifications
SD memory card	NZ1MEM-2GBSD	SD memory card for the GOT, 2 GB
	NZ1MEM-4GBSD	SDHC memory card for the GOT, 4 GB
	NZ1MEM-8GBSD	SDHC memory card for the GOT, 8 GB
	NZ1MEM-16GBSD	SDHC memory card for the GOT, 16 GB

Other options: Prepared as needed

Component	Model
Wireless LAN communication unit *1	GT25-WLAN
Ethernet communication unit *2	GT25-J71E71-100
External I/O unit *3	GT15-DIOR *4
	GT15-DIO *5

*1 Data transfer in the wireless LAN communication may not be as stable as that in the cable communication because a packet loss may occur depending on the surrounding environment and installation location. Make sure to check operation before using the product. Available countries vary depending on the hardware version. For the details, please refer to GOT2000 Series Wireless LAN Communication Unit User's Manual IB(NA)-0800522.

*2 Not required on GT25 wide screen model because the product has two built-in Ethernet ports.

*3 Cannot be used with GT25 wide screen model.

*4 GT15-DIOR is a negative common input/source type output.

*5 GT15-DIO is a positive common input/sync type output.

⚠ Precautions for safe use

To use the products given in this publication properly, always read the relevant manuals before beginning operation.

Trademarks and registered trademarks

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Korea+82-2-3660-9530

Singapore+65-6473-2308
Thailand+66-2682-6522 to 31
Indonesia+62-21-3192-6461
Vietnam+84-8-3910-5945
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France+33-1-55-68-55-68
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