

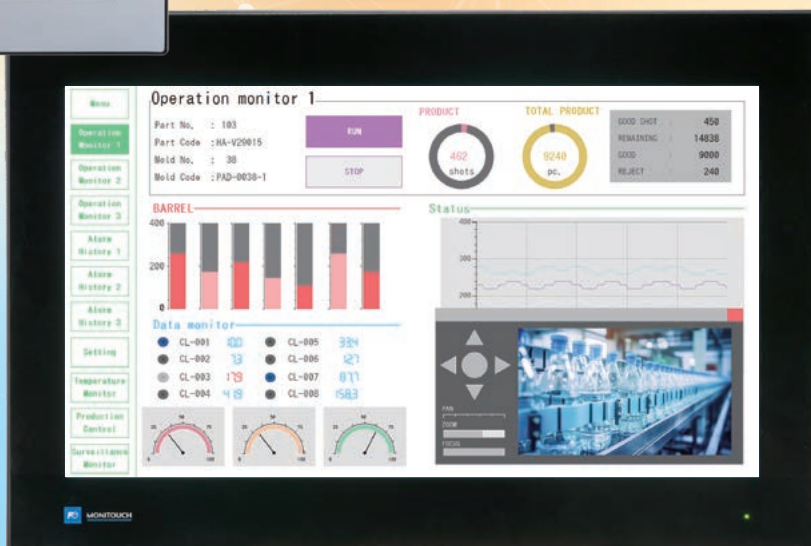
[illegible]

The screenshot displays the MONITOROUCH 'Driving monitor' interface. The sidebar on the left contains icons for Home, Monitor, Alarm, Trend, Parameter, and Settings. The main display area is divided into several sections:

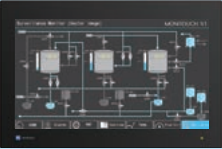
- Line Status:** A grid showing the status of four lines (A-Line, B-Line, C-Line, D-Line) across four modes (Normal, Alarm, Stop). Each status is represented by a colored circle: green for 'OK', yellow for 'ALM', and red for 'STOP'.
- Alarm Section:** Displays 'Manual' and 'Auto' status for each line with a corresponding gauge icon.
- Parameter Section:** Shows 'Product' and 'Planned number' for each line with a progress bar and numerical value.
 - A-Line: Product 103, Planned number 193, Progress 53.4%
 - B-Line: Product 124, Planned number 162, Progress 76.5%
 - C-Line: Product 52, Planned number 86, Progress 59.0%
 - D-Line: Product 66, Planned number 97, Progress 68.0%
- A-Line Detailed View:** A large section on the right providing detailed data for the A-Line, organized into four columns:
 - Part No. 1:** Power (4355 W), Voltage (400 V), Current (40.0 A), Frequency (50.00 Hz).
 - Condition:** Various status indicators (OK, ALM, STOP) for different parameters.
 - Part No. 2:** Power (3382 W), Voltage (400 V), Current (36.5 A), Frequency (50.00 Hz).
 - Condition:** Similar status indicators for the second part.

The bottom left corner features the MONITOROUCH logo.

X1 STANDARD MODEL
Series



Meeting customer needs through a lineup of products with various specifications and sizes.

	5.7"	7.0" wide	7.5"	8.4"	10.1" wide	10.4"	12.1"	12.1" wide	15.0"	15.6" wide
X1 Series Quad-core CPU Windows OS model								 X112iSD		 X115iSD
V10 Series Quad-core CPU high performance model				 V1008iSD  V1008iSBD		 V1010iS (D)  V1010iSB (D)	 V1012iS (D)  V1012iSB (D)		 V1015iS (D)  V1015iSB (D)	
TS4000 Series Basic model		 TS4070i			 TS4100i			 TS4120i		 TS4150i
TS2000 Series Basic model	 TS2060 (i)									
V8 Series Handy model			 V808 (i) CH							



SOFT MONITOUCH

TELLUS and V-Server

Bringing the factory floor to your desk

◎ Data collection ◎ Remote monitoring ◎ HMI software

TELLUS and V-Server Catalog





V9 series

V9 makes automation complete.
Satisfying, intuitive control
Impressive ability to convey data

V9 Series Catalog





TECHNOSHOT TS1000 Smart Series

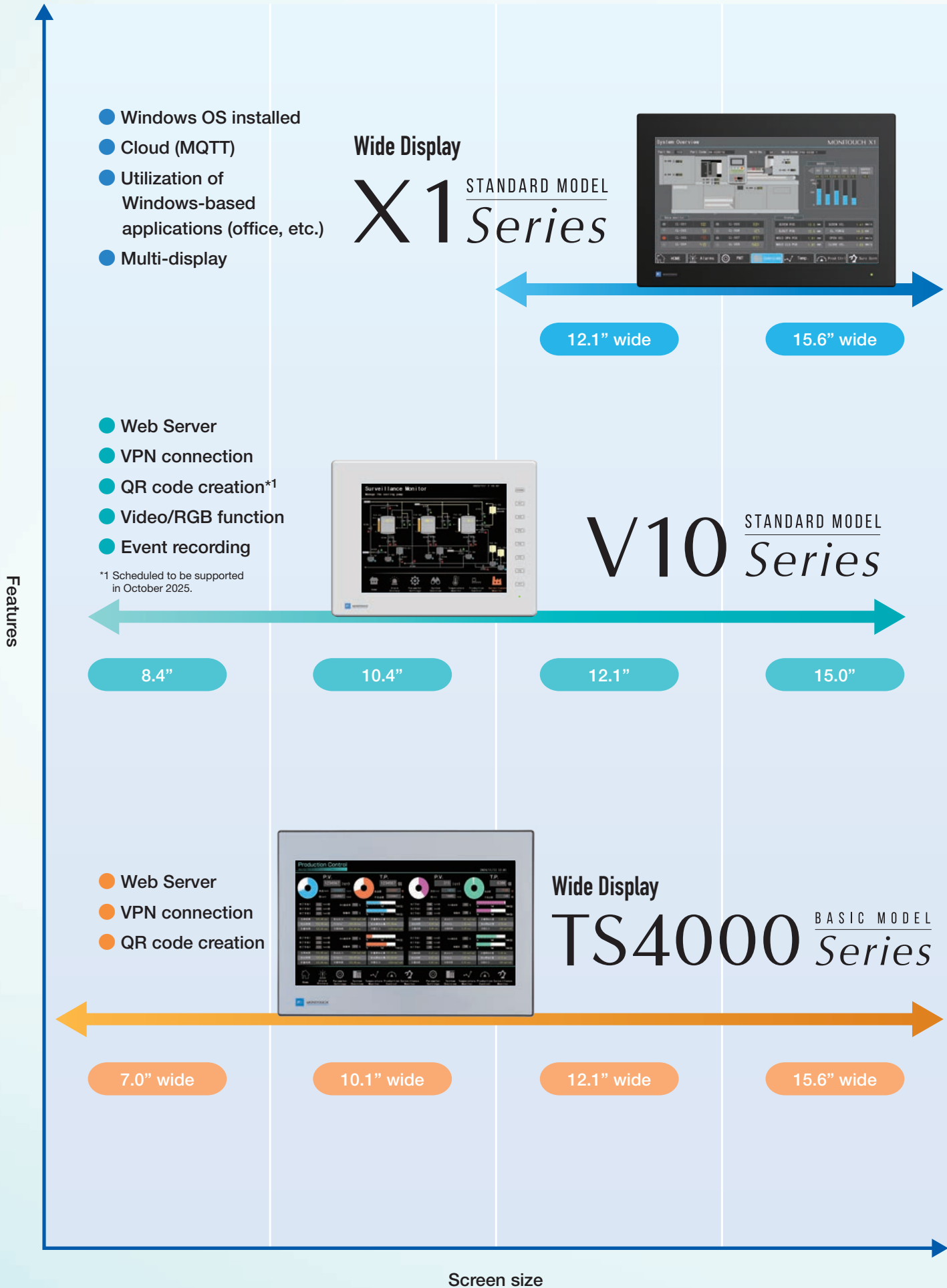
Consolidating Essential Functionality while Enhancing Operability and Visibility

TS1000 Smart Series Catalog



INDEX

■ Concept	■ V10 series	■ TS4000 series	■ X1 series	■ Cutting-Edge Features and Utilization Example	■ MONITOUCH Smart Editor	■ TS2000/V808CH	■ Product List	■ Support System	■ Warranty Policy
Product Positioning/ Concept — 04	Features/Model — 06 Product Lineup — 07 General Specifications/ Performance Specifications — 08 Interface/Dimensions — 09	Features — 10 Model/Product Lineup — 11 General Specifications/ Performance Specifications — 12 Interface/Dimensions — 13	Features — 14 Model/Product Lineup — 15 General Specifications/ Performance Specifications — 16 Interface/Dimensions — 17	Features — 18 Examples — 24	Features — 30 Features/System Requirements — 32 Models — 33	Features/Model — 34	Lineup List — 35 Optional Accessories List — 36	Service & Support — 38	Product Warranty — 39



Windows OS model for smart production sites

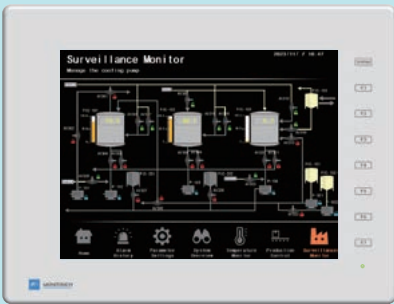


- Integration with IT systems
- Utilization of user applications
- Improved visibility (high-resolution LCD)
- Improved operability (PCAP touch screen)
- Inheritance of V-series screen assets

X1 Series
STANDARD MODEL

High performance model for overwhelmingly high speed

In addition to benchmarking HMI's from all over the world, we thoroughly analyzed how they were used in the field, and achieved industry-leading performance in six aspects (rendering, operation, startup, communication, transfer and custom code).



- | | | |
|--|---|---|
| ☒ Rendering | ☒ Operation | ☒ Start-up |
| ☒ Transferring | ☒ Communication | ☒ Custom Code |

V10 Series
STANDARD MODEL

Basic model with a vivid, high-precision widescreen LCD



Reliable Japanese quality with advanced network functionality

- | | | | | | |
|------------|-----|---------|---------|--------|--|
| | | | | | |
| Web Server | VPN | Gateway | QR code | E-mail | |

TS4000 Series
BASIC MODEL

The new standard for high speed HMI

V10 Series



In addition to benchmarking HMIs from all over the world, we thoroughly analyzed how they were used in the field, and achieved industry-leading performance in six aspects (rendering, operation, startup, communication, transfer and custom code).

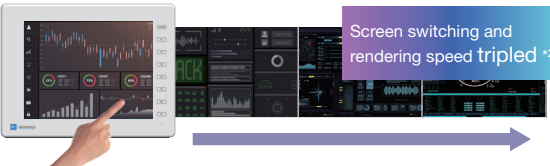


Industry best performance *1

Rendering Highest screen switching speed

Operation Quickest input response time

Reducing the stress of switching screens



Smooth screen switching and continuous operation

Start-up Shortest startup time from power-on

Transferring Highest screen data transfer speed



Reducing the wait time for startup and screen transfer

Communication Highest communication speed

Reducing the reading and writing time of multipoint data



Smooth operation even with multiple devices connected for multi-point logging.

Custom Code Highest processing speed for macro command execution

Reducing stress in the operation of high-load screens



Stable operation even for four arithmetic operations and logical operation in multiple lines, comparison and transfer.

*1 Comparison with currently available products of the world's major HMI manufacturers using our sample screen programs (according to our own research).

*2 Comparison with V9 series using our sample screen programs (according to our own research).

Model

V10□□iS□□□□

Screen size
15: 15.0"
12: 12.1"
10: 10.4"
08: 8.4"

Functions
N/A: Standard
L: With extended wired LAN
R: With wireless LAN

Video/RGB *3
G: Supported N/A: Not supported
Power supply
N/A: 100-240V AC D: 24V DC
Front case color
N/A: Light gray B: Black

*3 Expansion units (GUX-xx) are only for use with G-type in the V10 series.

Product Lineup



V1015iS (D)



V1012iS (D)



V1010iS (D)



V1008iSD



V1015iSB (D)



V1012iSB (D)



V1010iSB (D)



V1008iSBD

Analog resistance film	16.7M Colors	Serial 3ch	Ethernet *1 1ch	Wireless LAN *2	SD I/F	USB A/mini B	Audio	COM I/F Option	VIDEO Option	RGB Option
------------------------	--------------	------------	-----------------	-----------------	--------	--------------	-------	----------------	--------------	------------

*1 2CH for extended wired LAN products. *2 Wireless LAN compatible products only.

Model	Specifications					External Interface				Standard						Delivery
	Display Size	Resolution	Touch Switch	Unit Color	Power Supply	Video/ RGB	AUDIO Output	Wireless LAN	Extended Wired LAN	UL 61010	UL 121201 ⁴	CE/ UKCA	KC	Radio Act	Classification Standard ^{5,7}	Standard : ✓ Made to order : △
V1015iS (G)	15.0"	1024 × 768	Analog resistance film	Light gray	AC	△ ³	✓	—	—	—	—	—	✓ ⁷	—	—	✓
V1015iSD (G)					DC	△ ³	✓	—	—	✓	✓ ⁷	✓	✓ ⁷	—	✓	✓
V1015iSLD (G)						△ ³	✓	—	✓	✓	✓ ⁷	✓	✓ ⁷	—	✓	△
V1015iSRD						—	✓	✓	—	✓	✓	—	✓	✓	—	△
V1015iSB (G)				Black ⁶	AC	△ ³	✓	—	—	—	—	—	✓ ⁷	—	—	△
V1015iSBD (G)					DC	△ ³	✓	—	—	✓	✓ ⁷	✓	✓ ⁷	—	✓	△
V1015iSLBD (G)						△ ³	✓	—	✓	✓ ⁷	✓	✓ ⁷	—	✓	△	
V1015iSRBD						—	✓	✓	—	✓	✓	—	✓	✓	—	△
V1012iS (G)	12.1"	800 × 600	Analog resistance film	Light gray	AC	△ ³	✓	—	—	—	—	✓ ⁷	—	—	✓	
V1012iSD (G)					DC	△ ³	✓	—	—	✓	✓ ⁷	✓	✓ ⁷	—	✓	✓
V1012iSLD (G)						△ ³	✓	—	✓	✓	✓ ⁷	✓	✓ ⁷	—	✓	△
V1012iSRD						—	✓	✓	—	✓	✓	—	✓	✓	—	△
V1012iSB (G)				Black ⁶	AC	△ ³	✓	—	—	—	—	—	✓ ⁷	—	—	△
V1012iSBD (G)					DC	△ ³	✓	—	—	✓	✓ ⁷	✓	✓ ⁷	—	✓	△
V1012iSLBD (G)						△ ³	✓	—	✓	✓ ⁷	✓	✓ ⁷	—	✓	△	
V1012iSRBD						—	✓	✓	—	✓	✓	—	✓	✓	—	△
V1010iS (G)	10.4"	800 × 600	Analog resistance film	Light gray	AC	△ ³	✓	—	—	—	—	✓ ⁷	—	—	✓	
V1010iSD (G)					DC	△ ³	✓	—	—	✓	✓ ⁷	✓	✓ ⁷	—	✓	✓
V1010iSLD (G)						△ ³	✓	—	✓	✓	✓ ⁷	✓	✓ ⁷	—	✓	△
V1010iSRD						—	✓	✓	—	✓	✓	—	✓	✓	—	△
V1010iSB (G)				Black ⁶	AC	△ ³	✓	—	—	—	✓	—	✓ ⁷	—	—	△
V1010iSBD (G)					DC	△ ³	✓	—	—	✓	✓ ⁷	✓	✓ ⁷	—	✓	△
V1010iSLBD (G)						△ ³	✓	—	✓	✓	✓ ⁷	✓	✓ ⁷	—	✓	△
V1010iSRBD						—	✓	✓	—	✓	✓	—	✓	✓	—	△
V1008iSD (G)	8.4"	800 × 600	Analog resistance film	Light gray	DC	△ ³	✓	—	—	✓	✓ ⁷	✓	✓ ⁷	—	✓	✓
V1008iSLD (G)						△ ³	✓	—	✓	✓	✓ ⁷	✓	✓ ⁷	—	✓	△
V1008iSRD						—	✓	✓	—	✓	✓	—	✓	✓	—	△
V1008iSBD (G)						△ ³	✓	—	—	✓	✓ ⁷	✓	✓ ⁷	—	✓	△
V1008iSLBD (G)				△ ³		✓	—	✓	✓	✓ ⁷	✓	✓ ⁷	—	✓	△	
V1008iSRBD				—		✓	✓	—	✓	✓	—	✓	✓	—	△	

*3 Video/RGB is available only for V10 series G-type. (G at the end of the model name) *4 Hardware version b or later. For models incompatible with UL121201, please contact us.

*5 Serial No. 2312xxxxx or later. *6 The rear case is light gray. *7 V10 series G-type is not compatible.

General Specifications

Item		V1015iS	V1015iSD	V1012iS	V1012iSD	V1010iS	V1010iSD	V1008iSD	
Power Supply	Rated Voltage	100~240VAC	24VDC	100~240VAC	24VDC	100~240VAC	24VDC	24VDC	
	Permissible Range of Voltage	-15%, +10%	±10%	-15%, +10%	±10%	-15%, +10%	±10%	±10%	
	Permissible Momentary Power Failure	Within 20ms (100VAC or higher)	Within 1ms	Within 20ms (100VAC or higher)	Within 1ms	Within 20ms (100VAC or higher)	Within 1ms	Within 1ms	
	Power Consumption (Max. Rating)	76VA or less	38W or less	53VA or less	25W or less	60VA or less	27W or less	25W or less	
	Rush Current	56A or less, 3ms (Ambient temperature 25°C)	29A or less, 12ms (Ambient temperature 25°C)	48A or less, 3ms (Ambient temperature 25°C)	23A or less, 5ms (Ambient temperature 25°C)	43A or less, 3ms (Ambient temperature 25°C)	25A or less, 5ms (Ambient temperature 25°C)	21A or less, 6ms (Ambient temperature 25°C)	
Insulation Resistance		Between AC external terminal and FG: 500VDC, 10MΩ or more Between DC external terminal and FG: 500VDC, 10MΩ or more							
Physical Environment	Operating Ambient Temperature	0~40°C *1			0~50°C *1				
	Operating Ambient Humidity	85%RH or less (without dew condensation, max. wet-bulb temperature 39°C or lower) *1							
	Operating Altitude	2,000m or less							
	Operating Atmosphere	No exposure to corrosive gas or conductive dust							
	Storage Ambient Temperature	-10~50°C *1			-10~60°C *1				
	Storage Ambient Humidity	85%RH or less (without dew condensation, max. wet-bulb temperature 39°C or lower) *1							
Mechanical Operating Conditions	Pollution Degree	2							
	Resistance to Oscillation	JIS B 3502 (IEC61131-2) compliant Vibration frequency: 5 to 9Hz, Half amplitude: 3.5mm, Vibration frequency: 9 to 150Hz, Constant acceleration: 9.8 m/s ² (1G) X, Y, Z: 3 directions 10 times each							
Electric Operating Conditions	Resistance to Shock	JIS B 3502 (IEC61131-2) compliant Peak acceleration: 147m/s ² (15G), X,Y,Z: 3 directions, 3 times each (18 times in total)							
	Resistance to Noise	Noise voltage:1,500Vp-p, pulse width:1μs, pulse rise time : 1ns (by noise simulator)	Noise voltage:1,000Vp-p, pulse width:1μs, pulse rise time : 1ns (by noise simulator)	Noise voltage:1,500Vp-p, pulse width:1μs, pulse rise time : 1ns (by noise simulator)					
Installation Conditions	Resistance to Static Discharge	IEC61000-4-2 compliant, Contact: 6kV, air: 8kV							
	Grounding	Grounding resistance: Less than 100Ω, FG/SG separation							
	Structure	Protection structure: Front case: IP66, Type 4X/13 *2 (when water-proof gasket is used), Rear case: IP20 Installation method: panel mounting							
	Cooling System	Natural air cooling							
	Dimensions W*H*D (mm)	382.8×312.8×79.2			327.8×261.0×53.4		303.8×231.0×53.8		235.0×180.0×48.7
	Panel Cutout W*H (mm)	369.4 (+0.5/-0) ×299.4 (+0.5/-0)			313.0 (+0.5/-0) ×246.2 (+0.5/-0)		289.0 (+0.5/-0) ×216.2 (+0.5/-0)		220.5 (+0.5/-0) × 165.5 (+0.5/-0)
Case	Weight	Approx. 3.7kg (G-type approx. 3.9kg)			Approx. 2.6kg (G-type approx. 2.8kg)		Approx. 2.1kg (G-type approx. 2.3kg)		Approx. 1.4kg (G-type approx. 1.6kg)
	Color	Front case, Surface sheet: Light gray/Black					Rear case: Light gray		
	Material	PBT+GF30 resin							

*1 Use at a wet-bulb temperature of 39°C or less because higher temperatures may cause failure. *2 DC products only.

Performance Specifications

Item		V1015iS	V1012iS	V1010iS	V1008iS
Screen Memory (FROM)		256MB			
Backup Memory (SRAM)		900KB			
Display	Display Device	TFT color			
	Resolution	XGA: 1024×768	SVGA: 800×600		
	Screen Size	15.0"	12.1"	10.4"	8.4"
	Display Colors	16.77 million colors *3			
	Backlight	LED			
	Backlight Life	Approx. 100,000 hours	Approx. 70,000 hours		
Touch Switch	Type	Analog resistance film			
Function Switch	Quantity	8			
External Interface	D-Sub 9-pin × 1 (CN1)	RS-232C/RS-422/RS-485 Asynchronous Data length: 7, 8 bits Parity: Even, odd, none Stop bit: 1, 2 bits Baud rate: 4800, 9600, 19200, 38400, 57600, 76800, 115200, 187500*4 bps			
	Modular 8-pin × 2 (MJ1/MJ2)	RS-232C/RS-485 (2-wire type) Asynchronous Data length: 7, 8 bits Parity: Even, odd, none Stop bit: 1, 2 bits Baud rate: 4800, 9600, 19200, 38400, 57600, 76800, 115200 bps			
	Ethernet(RJ-45) × 1 *5	IEEE802.3(10BASE-T)/IEEE802.3u(100BASE-TX)/IEEE802.3ab(1000BASE-T) compliant, Compatible with Auto-MDIX			
	Wireless LAN(WLAN) × 1 *6	IEEE802.11b/g/n compliant (2.4GHz band)			
	SD Card × 1	Compatible with SD/SDHC/SDXC card (max. 2TB), Class10, UHS-I			
	USB × 2	Type A (Ver.3.0), Type mini-B (Ver.2.0)			
	AUDIO Output × 1	3.5φ stereo mini jack			
Clock	Backup Period	5 years (Ambient temperature 25°C)			
	Calendar Accuracy	Gap ±90 sec. per month (Ambient temperature 25°C, When the battery is backed up)			
Standard	CE-UKCA *7 *13	EMC direction: EN61000-6-2, 6-4 RoHS direction: EN IEC63000 Battery regulation: Compatible Radio direction: Not compatible			
	UL-cUL *7	UL61010-1/UL61010-2-201 (E313548), UL121201 (E315977) *8 *9			
	KC *10	Compatible			
	Radio Act *6 *7	MIC(Japan), FCC(USA), ISED(Canada), KC(South Korea)			
	Classification Standard *7 *10 *11 *12	Nippon Kaiji Kyokai (NK), Lloyd's Register of Shipping (LR), American Bureau of Shipping (ABS), Det Norske Veritas (DNV)			

*3 For displaying pictures, 3D parts, video/RGB input (V10 series G-type) only. Other parts are displayed in 65,536 colors. *4 Only for Siemens MPI/PP1. *5 2CH for extended wired LAN products. *6 Wireless LAN compatible products only.

*7 DC products only. *8 Hardware version b or later. V10 series G-type is not compatible. *9 For models incompatible with UL121201, please contact us. *10 Excluding V10 series G-type.

*11 Excluding wireless LAN compatible products. *12 Serial No. 2312xxxxx or later. *13 Wireless LAN compatible models have no CE/UKCA markings because they are not compliant with RED-DA.

Interface

Connection with a wide range of industrial networks

Models	Compatible network
CUR-00	OPCN-1
CUR-01	T-Link
CUR-02	CC-Link(Ver.1.10, Ver.2.00)
CUR-03	Ethernet (UDP/IP)
CUR-04	PROFIBUS-DP
CUR-06	SX bus
CUR-07	DeviceNet
CUR-08	FL-net (Ver.2.00)
CUR-09	EtherCAT

Communication units for the V9 series can be used.

3CH serial ports are built-in as standard, allowing for the largest number of protocols

Supports 1000BASE-T high-speed communication

USB 3.0 allows for large amounts of data such as logging to be stored in a USB drive at high speed

Can be connected to speakers directly *2

Extended wired LAN for security *3
Separation of upper and lower network segments

- ① Modular jack (RJ45) x 2
- ② D-Sub 9 pin x 1
- ③ Wired LAN x 1
- ④ USB Type A Ver. 3.0 x 1
- ⑤ USB mini-B Ver. 2.0 x 1
- ⑥ Extended wired LAN *3 x 1
- ⑦ Audio jack x 1
- ⑧ SD Card x 1
- ⑨ Expansion Units *1
- ⑩ Battery holder (V9-BT)
- ⑪ Communication Units
- ⑫ Power supply terminal block

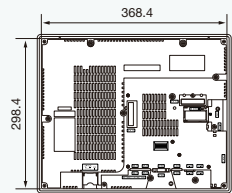
*1 GUX-xx is only for use with V10 series G-type. (For details, refer to P. 20 and P. 37) *2 A separate amplifier is required. *3 Extended wired LAN compatible products only.

Dimensions

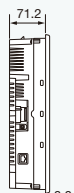
V1015iS

(Unit: mm)

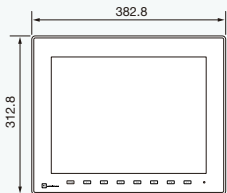
Rear view



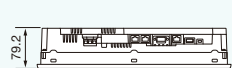
Side view



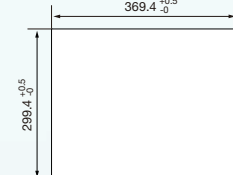
Front view



Bottom view



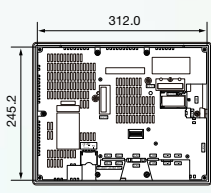
Panel cutout



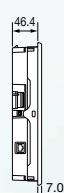
V1012iS

(Unit: mm)

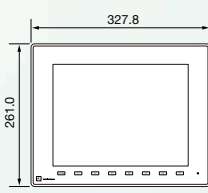
Rear view



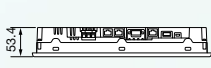
Side view



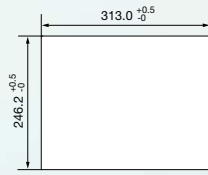
Front view



Bottom view



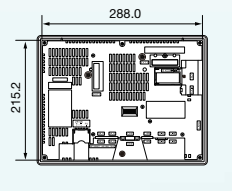
Panel cutout



V1010iS

(Unit: mm)

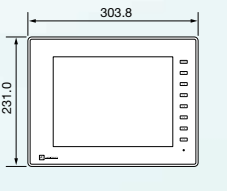
Rear view



Side view



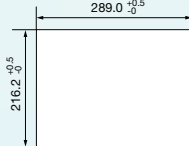
Front view



Bottom view



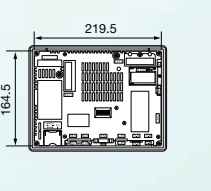
Panel cutout



V1008iS

(Unit: mm)

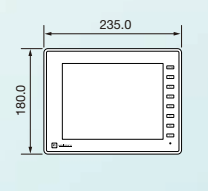
Rear view



Side view



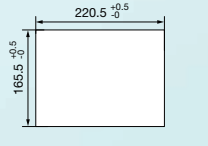
Front view



Bottom view



Panel cutout



New basic model with a vivid, high-precision widescreen LCD



Wide Display
TS4000 Series

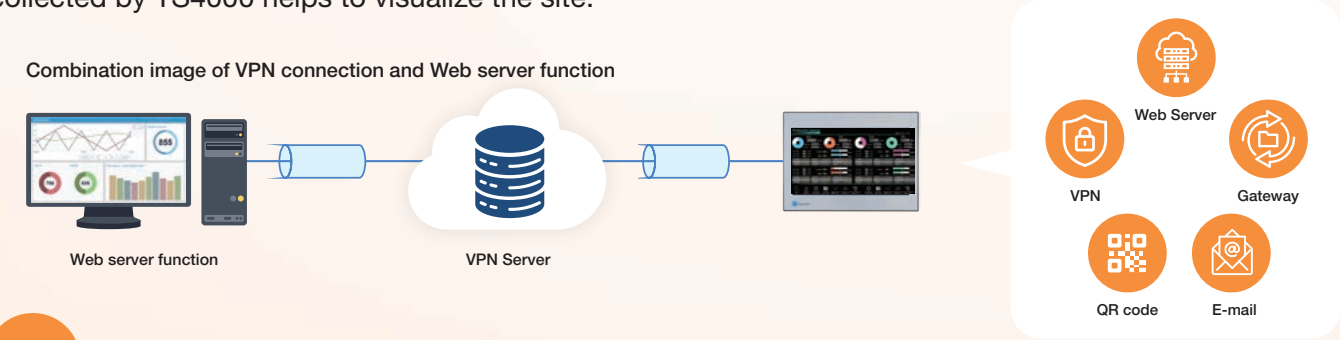
01 Large Widescreen LCD

High-resolution widescreen LCD allows precise rendering of both text and parts. Great volume of information can be displayed together on 1 screen at site.



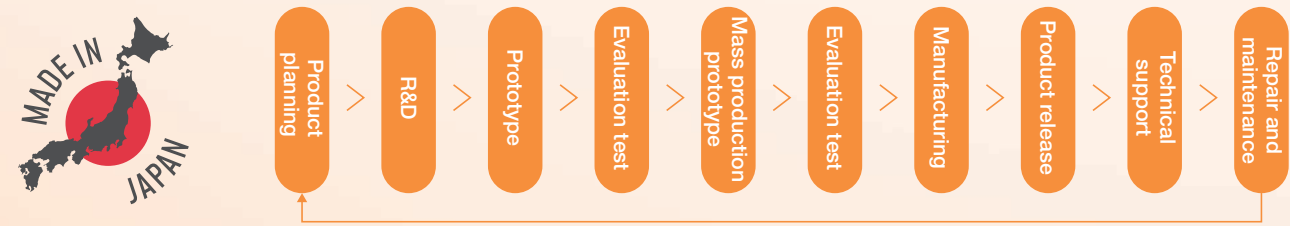
02 Networking Functions

It comes equipped with full networking functions. For example, when using the web server function, the same data as at the site can be easily checked in Google Chrome (web browser) and the information collected by TS4000 helps to visualize the site.



03 Made in Japan for Quality

We have achieved high quality and cost reduction through efficiency improvements by carrying out all activities from R&D to manufacturing at a single base in Japan.



TS4□□0i

Screen size
15: 15.6" wide 12: 12.1" wide 10: 10.1" wide 07: 7.0" wide

Product Lineup



- Wide Display
 - Analog resistance film
 - 16.7M Colors
 - Serial 2ch *1
 - Ethernet 1ch
 - USB A/mini B
- *1 Available as 3ch by using COM2/COM3 simultaneously.

Model	Specifications					External Interface				Standard						Delivery
	Display Size	Resolution	Touch Switch	Unit Color	Power Supply	Video/ RGB	AUDIO Output	Wireless LAN	Extended Wired LAN	UL 61010	UL 121201	CE/ UKCA	KC	Radio Act	Classification Standard	Made to order : △ Standard : ✓
TS4150i	15.6" wide	1366 x 768	Analog resistance film	Silver *2	DC	—	—	—	—	✓	—	✓	✓	—	—	✓
TS4120i	12.1" wide	1280 x 800			DC	—	—	—	—	✓	—	✓	✓	—	—	✓
TS4100i	10.1" wide	1024 x 600			DC	—	—	—	—	✓	—	✓	✓	—	—	✓
TS4070i	7.0" wide	800 x 480			DC	—	—	—	—	✓	—	✓	✓	—	—	✓

*2 The case color is black.

General Specifications

Item		TS4150i	TS4120i	TS4100i	TS4070i
Power Supply	Rated Voltage	24VDC			
	Permissible Range of Voltage	±10%			
	Permissible Momentary Power Failure	Within 1ms			
	Power Consumption (Max. Rating)	12W or less	11W or less	10W or less	8W or less
	Rush Current	20A or less, 4.0ms (Ambient temperature 25°C)			
Insulation Resistance		Between DC external terminal and FG: 500VDC, 10MΩ or more			
Physical Environment	Operating Ambient Temperature	0~50°C *1			
	Operating Ambient Humidity	85%RH or less (without dew condensation, max. wet-bulb temperature 39°C or lower)*1			
	Operating Altitude	2,000m or less			
	Operating Atmosphere	No exposure to corrosive gas or conductive dust			
	Storage Ambient Temperature	-10~60°C *1			
	Storage Ambient Humidity	85%RH or less (without dew condensation, max. wet-bulb temperature 39°C or lower) *1			
Mechanical Operating Conditions	Pollution Degree	2			
	Resistance to Oscillation	JIS B 3502 (IEC61131-2) compliant Vibration frequency: 5 to 9Hz, Half amplitude: 3.5mm, Vibration frequency: 9 to 150Hz, Constant acceleration: 9.8m/s ² (1G) X, Y, Z: 3 directions 10 times each			
	Resistance to Shock	JIS B 3502 (IEC61131-2) compliant Peak acceleration: 147m/s ² (15G), X,Y,Z: 3 directions, 3 times each (18 times in total)			
Electric Operating Conditions	Resistance to Noise	Noise voltage:1,000Vp-p, pulse width:1μs, pulse rise time : 1ns (by noise simulator)			
	Resistance to Static Discharge	IEC61000-4-2 compliant, Contact: 6kV, air: 8kV			
Installation Conditions	Grounding	Grounding resistance: Less than 100Ω, FG/SG separation			
	Structure	Protection structure: Front case: IP65 (when water-proof gasket is used)*2, Rear case: IP20 Installation method: panel mounting			
	Cooling System	Natural air cooling			
	Dimensions W*H*D (mm)	402.8×256.8×48.0	303.8×223.8×48.0	263.8×191.8×38.0	198.8×141.8×38.0
	Panel Cutout W*H (mm)	393 (+0.5/-0) ×249 (+0.5/-0)	294 (+0.5/-0) ×216 (+0.5/-0)	254 (+0.5/-0) ×184 (+0.5/-0)	189 (+0.5/-0) ×134 (+0.5/-0)
	Weight (display only)	Approx. 2.3kg	Approx. 1.5kg	Approx. 1.1kg	Approx. 0.6kg
Case	Color	Black (Surface sheet: Silver)			
	Material	PBT+GF30 resin			

*1 Use at a wet-bulb temperature of 39°C or less because higher temperatures may cause failure. *2 Waterproof gasket is available as an option. When waterproof gasket is not used, it is equivalent to IP40.

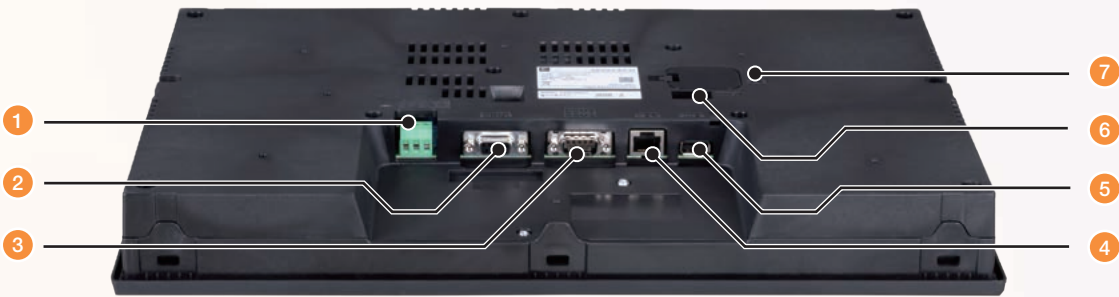
Performance Specifications

Item		TS4150i	TS4120i	TS4100i	TS4070i
Screen Memory (FROM)		128MB			
Backup Memory (SRAM)		230KB			
Display	Display Device	TFT color			
	Resolution	FWXGA: 1366×768	WXGA: 1280×800	WSVGA: 1024×600	WVGA: 800×480
	Screen Size	15.6" wide	12.1" wide	10.1" wide	7.0" wide
	Display Colors	16.77 million colors *3	16.20 million colors *3	16.77 million colors *3	
	Backlight	LED			
	Backlight Life	Approx. 50,000 hours		Approx. 30,000 hours	Approx. 45,000 hours
Touch Switch	Type	Analog resistance film			
Function Switch	Quantity	-			
External Interface	D-Sub 9-pin (female) × 1 (COM1)	RS-422/RS-485 (4-wire or 2-wire type is switched by DIP switches) Asynchronous Data length: 7, 8 bits Parity: Even, odd, none Stop bit: 1, 2 bits Baud rate: 4800, 9600, 19200, 38400, 57600, 76800, 115200, 187500 *4 bps			
	D-Sub 9-pin (male) × 1 *5 (COM2/COM3)	COM2:RS-232C COM3:RS-485 (2-wire type) Asynchronous Data length: 7, 8 bits Parity: Even, odd, none Stop bit: 1, 2 bits Baud rate: 4800, 9600, 19200, 38400, 57600, 76800, 115200 bps			
	Ethernet(RJ-45) × 1	IEEE802.3(10BASE-T)/IEEE802.3u(100BASE-TX) compliant, Compatible with Auto-MDIX			
	Wireless LAN	-			
	SD Card	-			
	USB × 2	Type-A(Ver. 2.0), Type mini-B(Ver. 2.0)			
	AUDIO Output	-			
Clock	Backup Period	5 years (Ambient temperature 25°C)			
	Calendar Accuracy	Gap ±80 sec. per month (Ambient temperature 25°C, When the battery is backed up)			
Standard	CE-UKCA	EMC direction: EN61000-6-2, 6-4 RoHS direction: EN IEC63000 Battery regulation: Compatible			
	UL-cUL	UL61010-1/UL61010-2-201(E313548)			
	KC	Compatible			
	Radio Act	-			
	Classification Standard	-			

*3 For displaying pictures and 3D parts only. Other parts are displayed in 65,536 colors.

*4 Only for Siemens MPI/PPi. *5 COM2/COM3 can be used simultaneously.

Interface



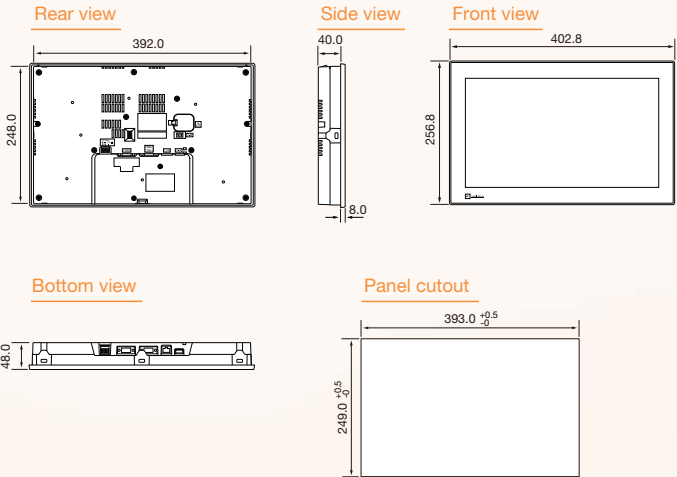
- 1 Power supply terminal block
- 2 RS-422/RS-485 communication connector female (COM1)
- 3 RS-232C/RS-485 communication connector male (COM2/COM3) *1
- 4 100BASE-TX/10BASE-T connector (LAN)
- 5 USB-A(U-A)
- 6 USB miniB(U-B)
- 7 Battery holder (TS-BT)

*1 COM2(RS-232C) and COM3(RS-485) can be used simultaneously.

Dimensions

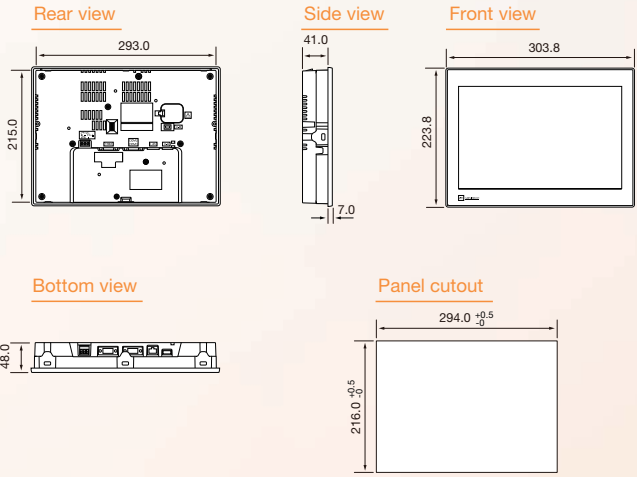
TS4150i

(Unit: mm)



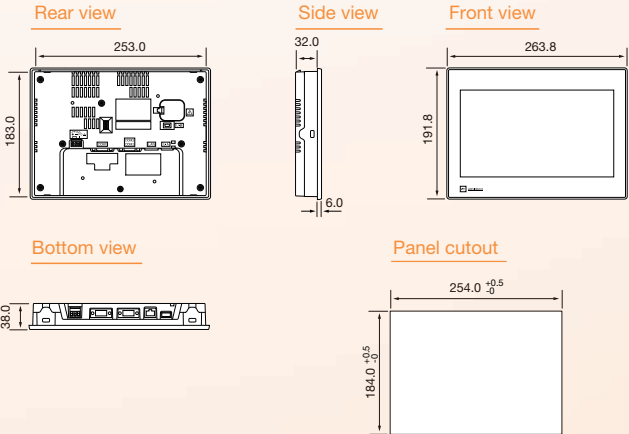
TS4120i

(Unit: mm)



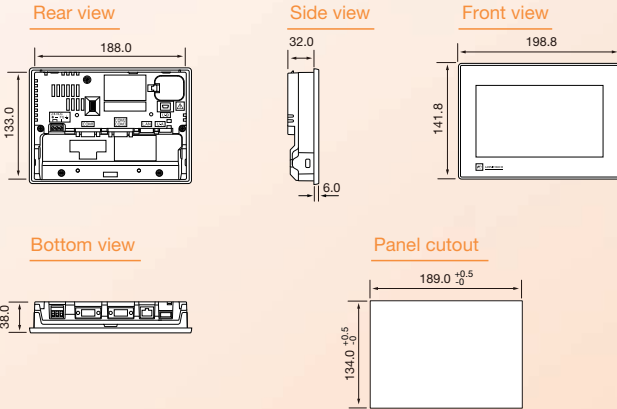
TS4100i

(Unit: mm)



TS4070i

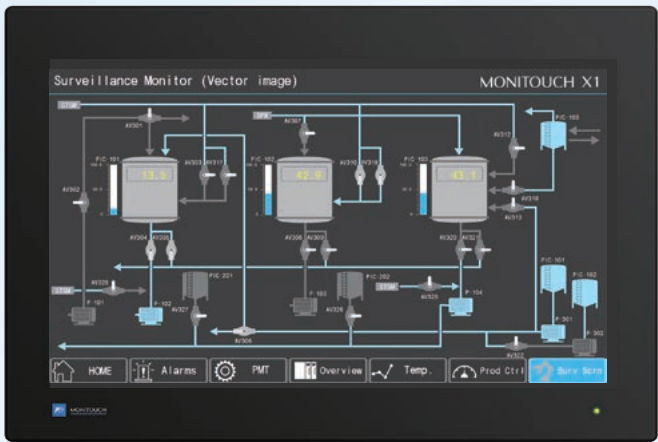
(Unit: mm)



Edge-computing accelerates the transition to smart production sites

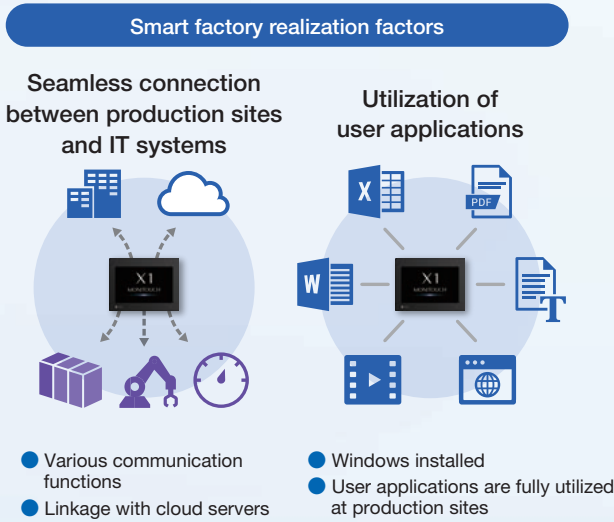
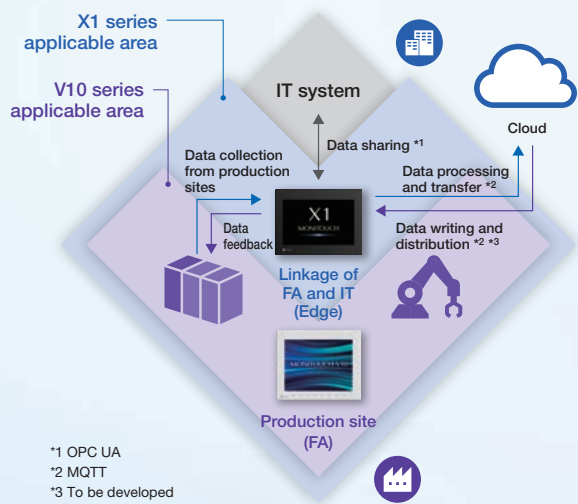
X1 Series

STANDARD MODEL



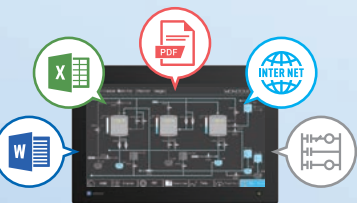
Integration with IT Systems

Data visualization, improvement of productivity and optimization of production management can be conducted.



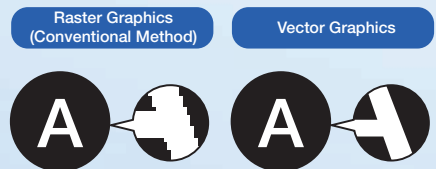
Utilization of User Applications

Since Windows is installed, Windows applications and user applications can be used at production sites. Applications can be run by switches on the HMI display and used freely at production sites.



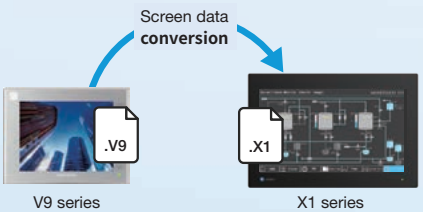
Visibility and User-friendliness

A vectorized rendering engine allows for high quality scaling. Beautiful high quality screens can be created regardless of the display resolution.



Inheritance of V-series Screen Assets

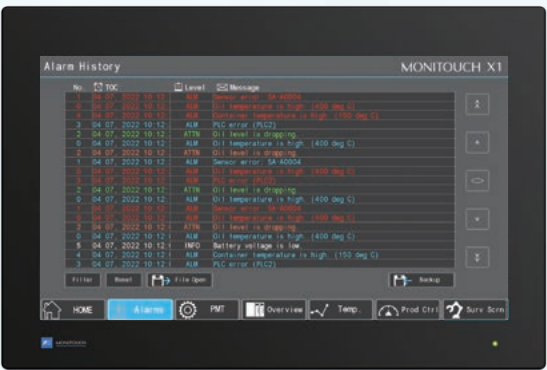
Screen assets created for the V-series can be converted for use in the X1 series.



X1 Series

- Screen size
15: 15.6" wide
12: 12.1" wide
- Main memory
1: 4GB
2: 8GB *1
- Functions
R: with WLAN and Bluetooth
N/A: without WLAN and Bluetooth
- *1 Models without WLAN and Bluetooth only.

Product Lineup



X115iSD



X112iSD

- PCAP (Capacitive type)
- 16.7M Colors*2
- Ethernet 2ch
- Wireless LAN *3
- Bluetooth *3
- USB-A 3.0x2 2.0x2
- HDMI 1ch
- Serial 1ch
- IP66
- Sound output 1ch

*2 Only pictures and 3D parts are available for HMI screens. *3 Wireless LAN compatible products only.

Model	Specifications						External Interface				Standard						Delivery
	Display Size	Resolution	Touch Switch	Main Memory	Unit Color	Power Supply	HDMI	AUDIO Output	Wireless LAN	Blue tooth	UL 61010	UL 121201	CE/UKCA *4	KC	Radio Act	Classification Standard	Standard : ✓ Made to order : △
X1151iSD	15.6" wide	1920 x 1080	PCAP (Capacitive type)	4GB	Black	DC	✓	✓	—	—	✓	—	✓	✓	—	—	✓
X1151iSRD				4GB			✓	✓	✓	✓	✓	—	—	✓	✓	—	△
X1152iSD				8GB			✓	✓	—	—	✓	—	✓	✓	—	—	△
X1121iSD	12.1" wide	1280 x 800	PCAP (Capacitive type)	4GB			✓	✓	—	—	✓	—	✓	✓	—	—	✓
X1121iSRD				4GB			✓	✓	✓	✓	✓	—	—	✓	✓	—	△
X1122iSD				8GB			✓	✓	—	—	✓	—	✓	✓	—	—	△

*4 UKCA is compatible with hardware version b or later.

General Specifications

Item		X115□iSD	X115□iSRD	X112□iSD	X112□iSRD
Power Supply	Rated Voltage	24VDC			
	Permissible Range of Voltage	±10%			
	Permissible Momentary Power Failure	Within 1ms			
	Power Consumption (Max. Rating)	51W or less		41W or less	
	Rush Current	24A or less, 6ms (Ambient temperature 25°C)			
Insulation Resistance		Between DC external terminal and FG: 500VDC, 10MΩ or more			
Physical Environment	Operating Ambient Temperature	0~45°C *1			
	Operating Ambient Humidity	85%RH or less (without dew condensation, max. wet-bulb temperature 39°C or lower) *1			
	Operating Altitude	2,000m or less			
	Operating Atmosphere	No exposure to corrosive gas or conductive dust			
	Storage Ambient Temperature	-10~60°C *1			
	Storage Ambient Humidity	85%RH or less (without dew condensation, max. wet-bulb temperature 39°C or lower) *1			
	Pollution Degree	2			
Mechanical Operating Conditions	Resistance to Oscillation	JIS B 3502 (IEC61131-2) compliant Vibration frequency: 5 to 9Hz, Half amplitude: 3.5mm, Vibration frequency: 9 to 150Hz, Constant acceleration: 9.8m/s ² (1G) X, Y, Z: 3 directions 10 times each			
	Resistance to Shock	JIS B 3502 (IEC61131-2) compliant Peak acceleration: 147m/s ² (15G), X,Y,Z: 3 directions, 3 times each (18 times in total)			
Electric Operating Conditions	Resistance to Noise	Noise voltage:1,000Vp-p, pulse width:1μs, pulse rise time : 1ns (by noise simulator)			
	Resistance to Static Discharge	IEC61000-4-2 compliant, Contact: 6kV, air: 8kV			
Installation Conditions	Grounding	D class grounding (3rd-class grounding) FG/SG is internally connected in the X1 series.			
	Structure	Protection structure: Front case: IP66 (when water-proof gasket is used), Rear case: IP20 Installation method: panel mounting			
	Cooling System	Natural air cooling			
	Dimensions W*H*D (mm)	406 × 271 × 68.2		320 × 241 × 66.7	
	Panel Cutout W*H (mm)	395 (+0.5/-0) × 260 (+0.5/-0)		309 (+0.5/-0) × 230 (+0.5/-0)	
	Weight	Approx. 3.9kg		Approx. 3.2kg	
Case	Color	Black			
	Material	PBT+GF30 resin (front)			

*1 Use at a wet-bulb temperature of 39°C or less because higher temperatures may cause failure.

Performance Specifications

Item		X115□iSD	X115□iSRD	X112□iSD	X112□iSRD
Hardware	Processor	Intel Atom® x5-E3940			
	Number of Cores / Number of Threads	4/4			
	Main Memory	□:1 4GB □:2 8GB			
	Internal Storage	SSD(3D NAND): 64GB (free space 30GB)			
Software	OS	Windows 10 IoT Enterprise 2019 LTSC(64bit)			
Display	Display Device	TFT color			
	Resolution	FHD : 1920 × 1080		WXGA : 1280 × 800	
	Screen Size	15.6" wide		12.1" wide	
	Display Colors	16.77 million colors (for HMI screens, pictures and 3D parts only)			
	Backlight	LED			
	Backlight Life	Approx. 50,000 hours			
Touch Switch	Type	PCAP (Capacitive type)			
Function Switch	Quantity	-			
External Interface	Serial Port (RJ-45) × 1	RS-232C/RS-422/RS-485 (switchable) Asynchronous Data length: 7, 8 bits Parity: Even, odd, none Stop bit: 1, 2 bits Baud rate: 4800, 9600, 19200, 38400, 57600, 76800, 115200 bps			
	Ethernet(RJ-45) × 2	IEEE802.3(10BASE-T)/IEEE802.3u(100BASE-TX)/IEEE802.3ab(1000BASE-T) compliant, Compatible with Auto-MDIX			
	Wireless LAN × 1 *2	-	IEEE 802.11 ac/a/b/g/n (2.4/5.0GHz band)	-	IEEE 802.11 ac/a/b/g/n (2.4/5.0GHz band)
	USB-A Ver. 3.0 × 2	Ver.3.0 (Low speed: 1.5Mbps, Full speed: 12Mbps, High speed: 480Mbps, Super speed: 5.0Gbps)			
	USB-A Ver. 2.0 × 2	Ver.2.0 (Low speed: 1.5Mbps, Full speed: 12Mbps, High speed: 480Mbps)			
	AUDIO Output × 1	3.5φ stereo mini jack, line output			
	Bluetooth × 1 *2	-	Bluetooth	-	Bluetooth
	HDMI	1920 × 1080		1280 × 800	
	Clock	Backup Period	3 years (Ambient temperature 25°C)		
Calendar Accuracy		Gap ±2 sec. per day (Ambient temperature 25°C)			
Standard	CE-UKCA *3+4	EMC direction: EN61000-6-2, 6-4 RoHS direction: EN IEC63000 Battery regulation: Compatible Radio direction: Not compatible			
	UL-cUL	UL61010-1/UL61010-2-201(E313548)			
	KC	Compatible			
	Radio Act *2	MIC(Japan), FCC(USA), ISED(Canada), KC(South Korea), NCC(Taiwan)			

*2 Wireless LAN compatible models only. *3 UKCA is compatible with hardware version b or later.

*4 Wireless LAN compatible models have no CE/UKCA markings because they are not compliant with RED-DA.

Interface

Various interfaces for achieving edge-computing

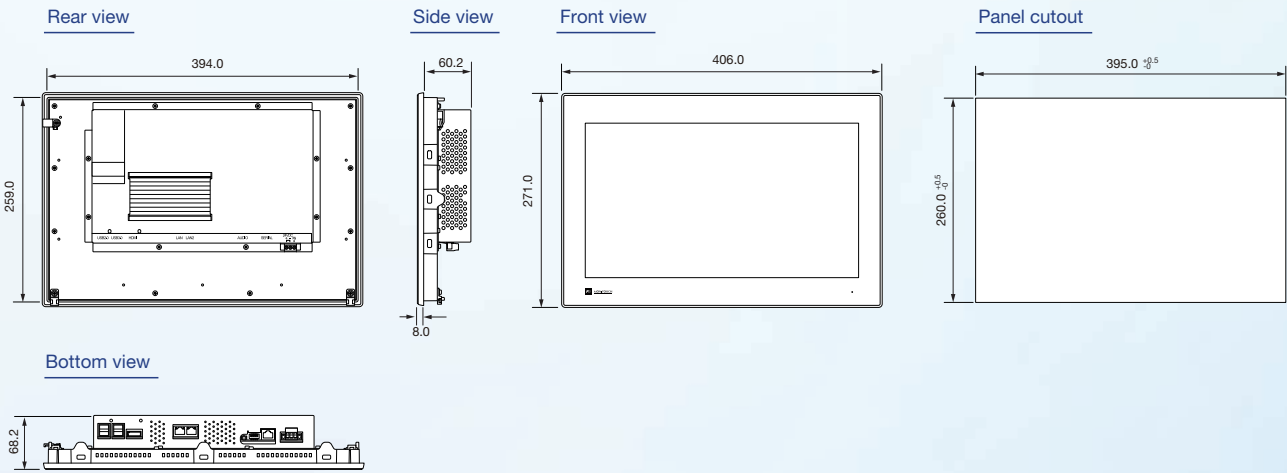


- 1 USB2.0x2
- 2 USB3.0x2
- 3 HDMI output
- 4 Ethernetx2
- 5 AUDIO output
- 6 Serial interface
- 7 Power supply terminal block

Dimensions

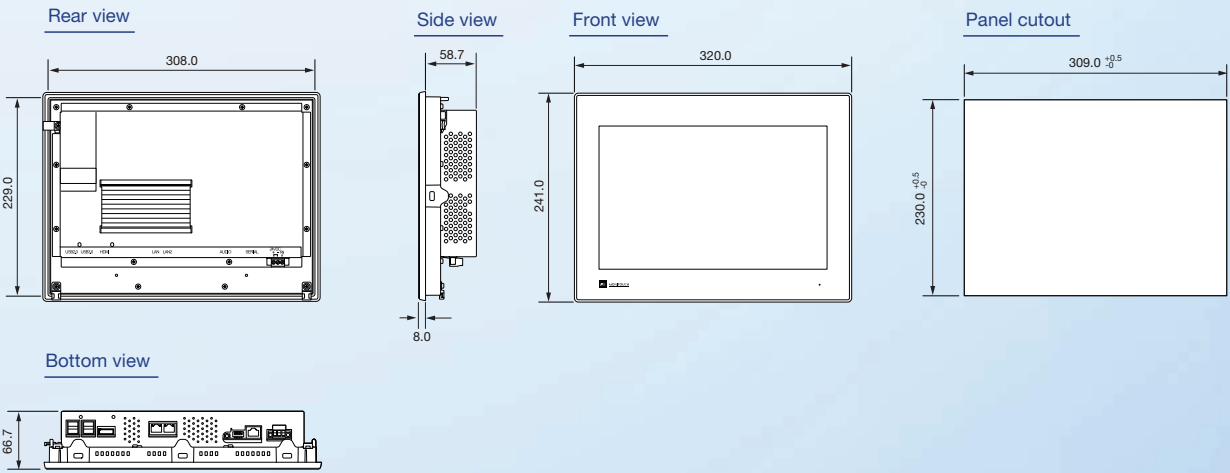
X115□iSD

(Unit: mm)



X112□iSD

(Unit: mm)

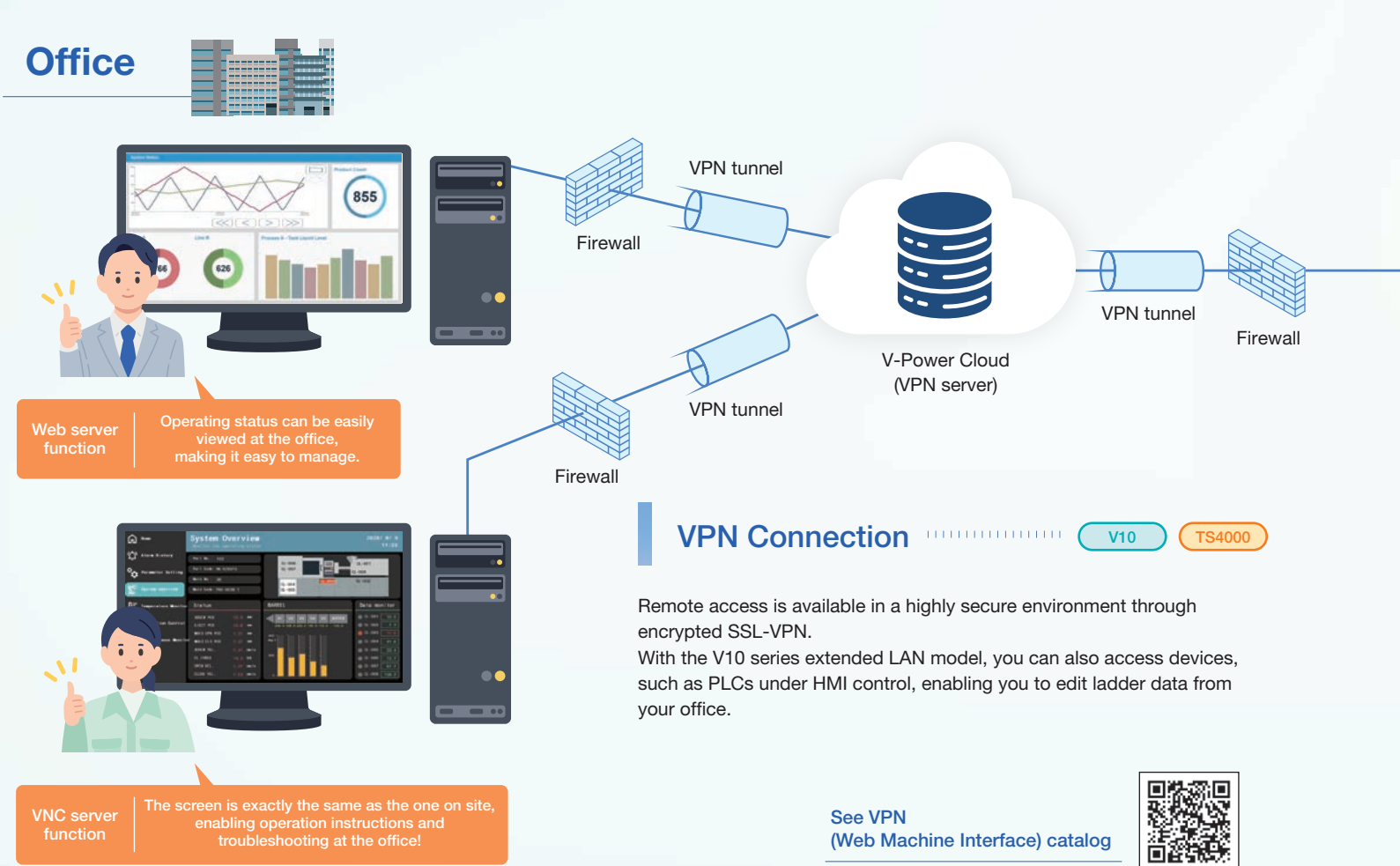


Various Networking Functions Connecting Offices and Factories

Web Server Function ^{*1 *2} V10 TS4000

Without installing a dedicated application, it is possible to remotely monitor production facilities in the web browser (Google Chrome) on a computer or a tablet. The status of facilities can be checked at your office so you can save the trip to the production site. By accessing the screens for Web Server created and stored in MONITOUCH at the office, information can be easily viewed with numerical values and graphs.

^{*1} Web pages are created using "Web Editor", a Web Server configuration software built into Smart Editor.
^{*2} VPN connection is not essential. Available as long as MONITOUCH and the terminal device are on the same network.



VNC Server Function V10 TS4000

By accessing MONITOUCH with a VNC application, the MONITOUCH screen can be displayed on a computer. When debugging or making adjustments, you can operate and check the MONITOUCH without being in front of it, saving significant travel time. Our "Simple Remote" VNC application is available free of charge. It can also be accessed from a tablet.



SOFT MONITOUCH

TELLUS and V-Server

Bringing the factory floor to your desk

TELLUS Remote allows remote access to MONITOUCH by using MONITOUCH's screen assets.

[Download Simple Remote](#)

[See TELLUS and V-Server catalog](#)



QR Code Creation V10 TS4000

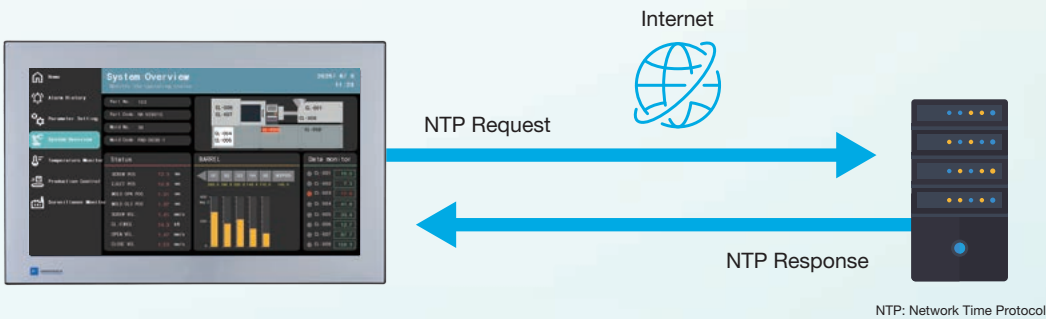
QR codes can be created and displayed on MONITOUCH. By linking with Web Server function, QR codes can be read by smart devices to quickly display the dashboard screen. Also, by using the URL of a PDF manual or video file as the QR code information, the file in the web browser can be displayed and played on the smart device.

^{*3} Scheduled to be supported in October 2025



NTP Time Server Connection V10 TS4000

Simply specify the IP address of the time server and connect to the network for easy and accurate time correction. Automatic time correction eliminates the need to create a screen for time correction.



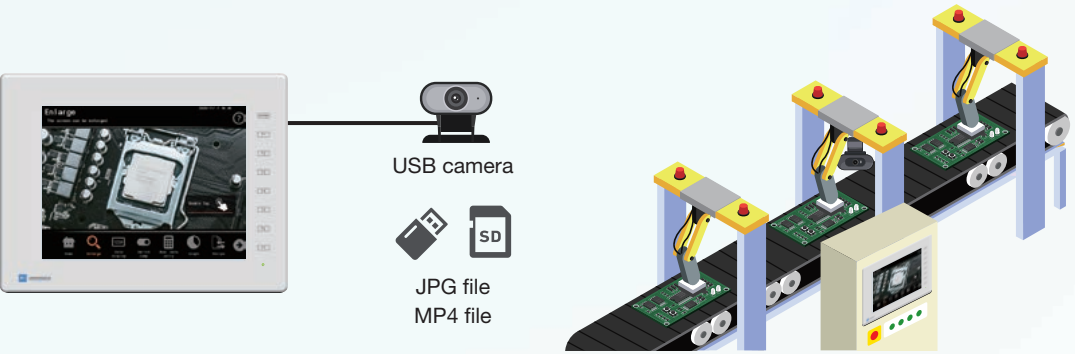
X1 Manual connection with "Time setting" in System Configurator or automatic connection when turning on the power is possible.

Extensive multimedia functions for on-site visualization

USB Camera Event Recording Function

V10

USB camera images can be displayed in real time. By double-touching the area, video can be paused/released and JPEG files can be saved. By linking with the alarm function, up to 180 seconds of video can be recorded before and after the occurrence of an abnormalities. Recorded video can be played using a video viewer.

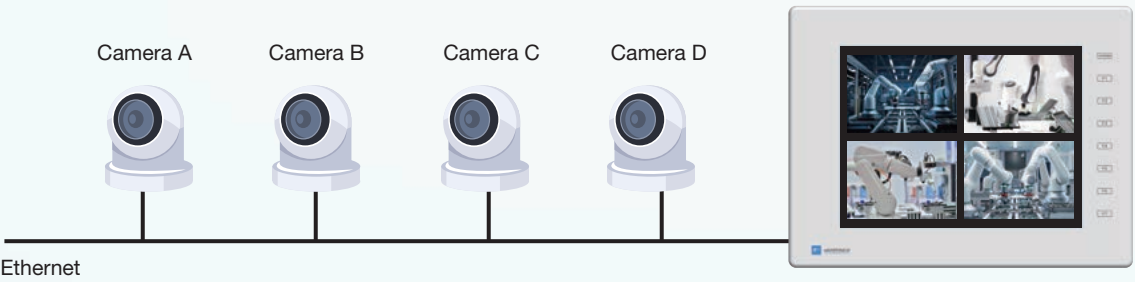


Network Camera

V10

TS4000

By connecting to network camera using an Ethernet connection, it is possible to display camera images on the MONITOUCH screen. Up to 4 camera images can be displayed simultaneously. For cameras that support remote control, you can zoom in the camera images or change the orientation of the camera on the MONITOUCH screen.



Video/RGB Function

V10 G-type only

By attaching an optional unit, videos and RGB input images can be displayed and images displayed on the V10 series can be sent to external displays.



By integrating the image processing unit for RGB input into the V10 series (G type) using the GUX-01, it is possible to display the image of the image processing unit while also displaying the operation screen of the facility.

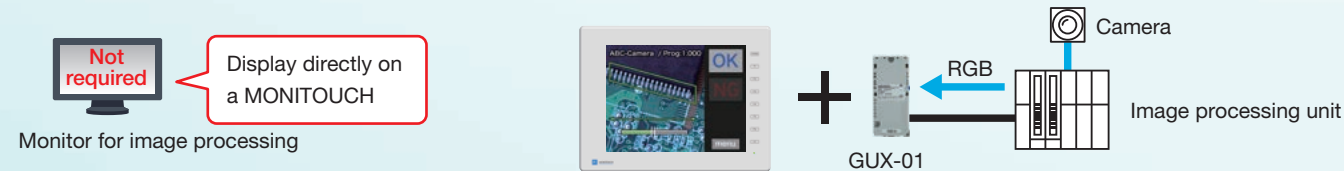


Image Function Comparison

V10

TS4000

Item	Image input					Image output
	Camera			PC		External monitor (RGB output)
Connected device	USB Camera	Network camera	Video camera	RGB input	Remote desktop *2	Dsub15 (mini)
Connected port	USB-A	LAN	BNC co-axial connector	Dsub15 (mini)	LAN	Dsub15 (mini)
No. of connectable device	1	Register: 255 SIML display: 4	1~4	1~2	1	1
Camera image display	✓	✓	✓	—	—	—
Event record function	✓	—	—	—	—	—
PC screen display	—	—	—	✓	✓	—
PC screen operation	—	—	—	✓ *1	✓	—
Supported HMI models and optional units	V10	V10 TS4000	V10 G-type + GUX-00(4CH) V10 G-type + GUX-04(1CH) V10 G-type + GUX-10(2CH)	V10 G-type + GUX-01(1CH) V10 G-type + GUX-10(1CH) V10 G-type + GUX-11(2CH)	V10 TS4000	V10 G-type + GUX-02 (1CH)

*1 A separate driver needs to be installed on a PC. *2 VNC server software needs to be installed on a PC.

Hardware Specifications Comparison

V10

TS4000

Item		V10 series				TS4000 series			
		V1015iS	V1012iS	V1010iS	V1008iS	TS4150i	TS4120i	TS4100i	TS4070i
Display	Display Size	15.0"	12.1"	10.4"	8.4"	15.6" wide	12.1" wide	10.1" wide	7.0" wide
	Resolution	XGA 1024×768	SVGA 800×600			FWXGA 1366×768	WXGA 1280×800	WSVGA 1024×600	WVGA 800×480
Power supply		AC/DC			DC	DC			
Interface	Serial	3 ports CN1: D-sub 9-pin(female), MJ1: RJ-45, MJ2: RJ-45				2 ports COM1: D-sub 9-pin(female), COM2/COM3: D-sub 9-pin(male) *6			
	USB	2CH Type-A(Ver.3.0), Type-mini B(Ver.2.0)				2CH Type-A(Ver.2.0), Type-mini B(Ver.2.0)			
	Ethernet	1CH *3(10BASE-T/100BASE-TX/1000BASE-T)				1CH(10BASE-T/100BASE-TX)			
	Wireless LAN	1CH *4				—			
	SD	1CH(max. 2TB)				—			
	AUDIO	Compatible				—			
	Communication Units (CUR-xx)	Compatible				—			
	Expansion Units (GUX-xx)	Compatible *5				—			
Memory	Screen Memory (FROM)	256MB				128MB			
	Backup Memory (SRAM)	900KB				230KB			
Case Color		2 types: Light gray/Black				1 type: Silver			

*3 2CH for extended wired LAN products (V10xxiSLD). *4 Wireless LAN compatible products (V10xxiSRD) only. *5 Video/RGB compatible products (G-type V10 series) only. *6 Simultaneous use of COM2/COM3 is possible.

Support for environments with strict restrictions on bringing in devices, such as clean rooms

Recipe Function with Built-in Storage

V10

TS4000

Recipe data for each product can be stored in the HMI unit's built-in storage for use in production changeovers. Since no external storage is required, the recipe function can be used even at sites where the use of external storage is prohibited. This eliminates the need to worry about storage failure and the hassle of selecting storage."

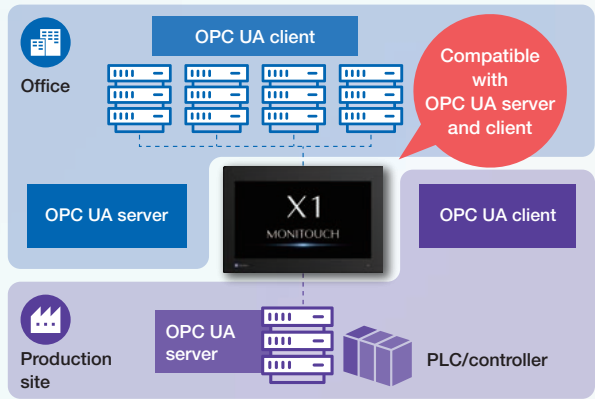
*7 Scheduled to be supported in October 2025.



Compatible with OPC UA Server and Client *1

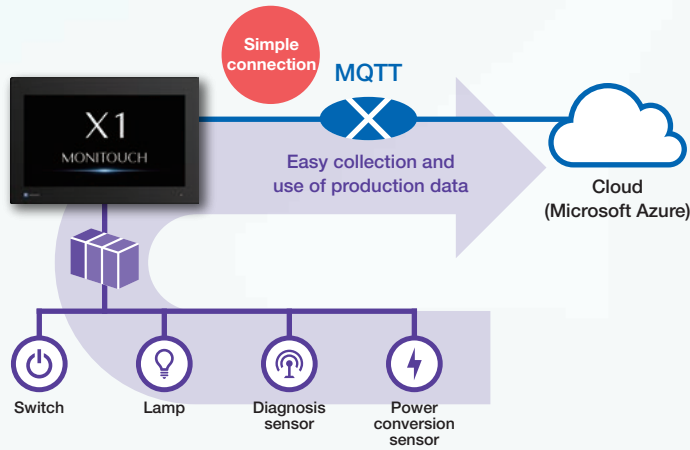
- The X1 series is equipped with OPC UA server and client, so data can be collected by connecting to both offices and production sites.
- Even if devices at the production site are incompatible with OPC UA, the X1 series can fulfil the role of a gateway to OPC UA in order to transfer data to OPC UA clients in the host system.
- OPC UA enables data sharing between production sites and the host system, and facilitates the standardization of equipment.

*1 OPC UA server and client cannot be used simultaneously.



Cloud (MQTT) Compatible

- Operation data, production data, status data, etc. are sent to the cloud system via MQTT for collection and storage. It contributes to the visualization and improvement of the factory.
- Since the system is linked with the Microsoft Azure platform, various tools and frameworks of the cloud service can be used.

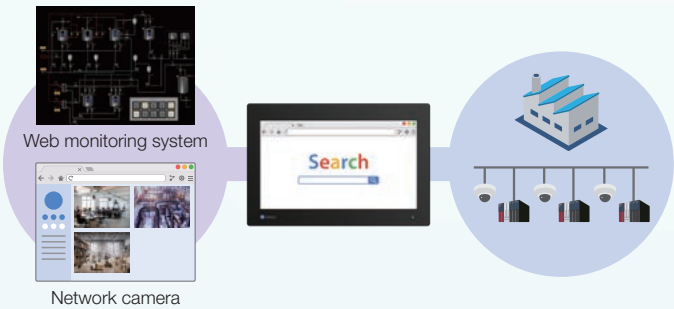


Linkage with Microsoft services via Azure IoT Hub is possible.

- Visualization, analysis, AI / Machine learning
- Visualization
 - Progress management
 - Diagnosis / Analysis
 - Prediction / Status detection
 - Cause analysis
 - KPI management

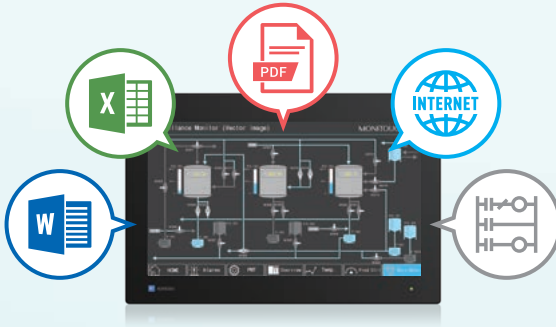
Standardized Web Browser

Since the X1 series is equipped with a web browser as standard, it is possible to use the browser function in applications and IT systems. When combined with a monitoring system or network cameras, it is possible to monitor different machines on the network, and to check each status easily.



Utilization of User Applications

Since Windows is installed on the X1 series, Windows applications can be used, meaning there is no need to bring your computer to the manufacturing site. The display position and window size of the application can also be specified, allowing for operation with a display position and size suited to the X1 series screen layout. In addition, it is possible to reduce maintenance tasks and the space required for PCs at the production site by integrating PCs with the X1 series. The X1 series with Windows applications improve versatility and expandability, as well as functioning of HMIs.



Vector Graphics

Vector graphics enable high quality and tailored screen creation as it allows the enlargement/reduction of parts while maintaining a clear image.

Raster Image (Conventional Method)

Color and density are specified for each pixel

Jagged edges become visible when scaling

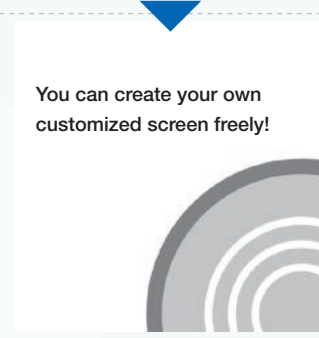
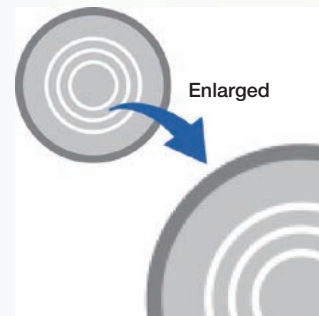
Indicate "white, white, black, black, black, black, white, white ..."

Vector Image (New Method)

Images are defined by mathematical equations

Images remain sharp and smooth in all sizes by changing the parameters

Draw a circle by specifying the reference point and radius
<circle cx="150" cy="150" r="150"/>



It is possible to maintain clear edges even after scaling to any size.

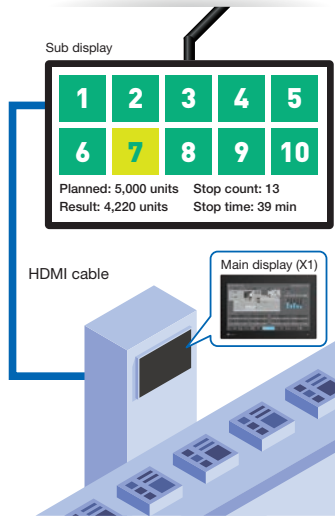
Multi-Display

Two screens can be used simultaneously, each with independent display and operation. A different screen can be displayed on a large external monitor, or 2-split screen is available. Since the X1 series display and the external display can be installed in landscape or portrait (90° to the right) mode, setups matching the on-site environment and space are possible.

Andon monitor display

It's possible to visualize the operating status of equipment and share information by displaying details such as production plans and results on an Andon monitor (large display) connected via an HDMI cable.

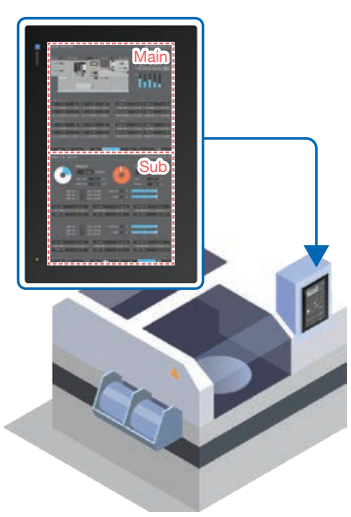
There is no need to prepare a computer for the Andon display; the X1 series alone can display and operate as an HMI as well as display information on an Andon monitor.



2-split screen

Two X1 applications (main & sub) can be run on the X1 series and displayed and operated on the same screen simultaneously by splitting the screen horizontally or vertically.

In addition to displaying data from the same or a different screen, it also supports the display of user applications such as engineering tools, displaying information with a high degree of density and freedom.

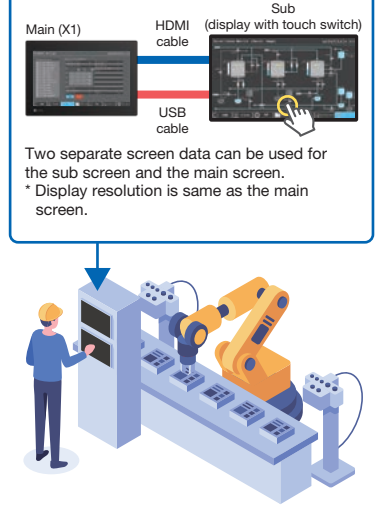


Expansion of the display / operation screen

To improve work efficiency, the amount of information that can be checked at one time can be increased by using the X1 series with an external display.

Touch operation is also possible on external displays with a touch switch, via connection using a USB cable.

One X1 series unit can be used for HMI display and operation equivalent to two units.



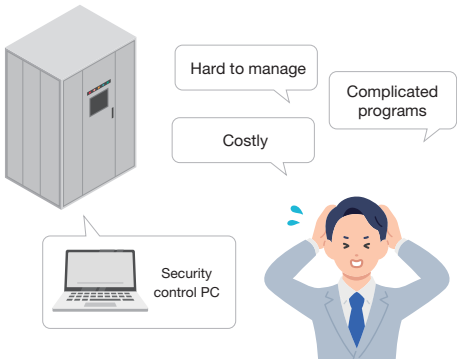
Easy to manage password with operating authorities.

Security Features

V10 TS4000 X1

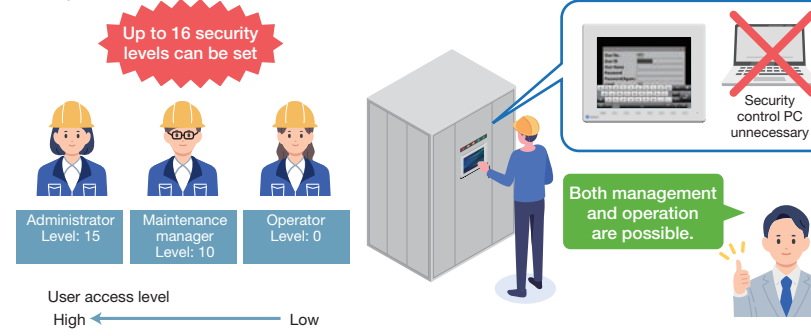
Before

PCs were introduced for security control, however...



After

User IDs and passwords can be registered, changed or deleted on the HMI screen. In addition, by assigning levels to password, you can control the operating privileges of each operator.



Speedy identification of the cause of alarms, and analysis and resolution of problems.

Operation Log Function

V10 TS4000 X1

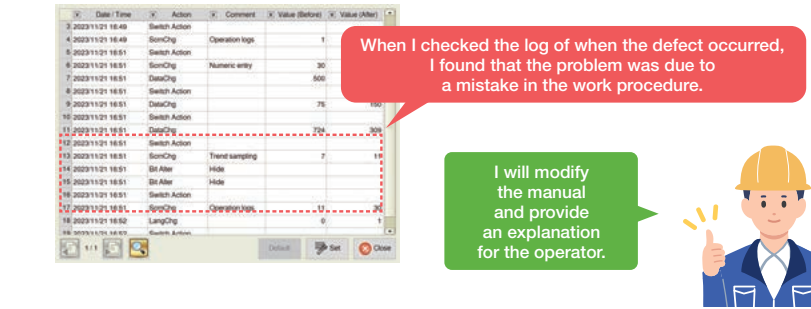
Before

When an alarm occurs, I can't see the history leading up to it and I don't know the cause. I want to achieve traceability, but I don't know what to do...



After

Operators' activity and machine settings can be confirmed. Quick identification of the cause and early resolution of problems are possible, contributing to the improvement of yield rate and a decrease of defective products.



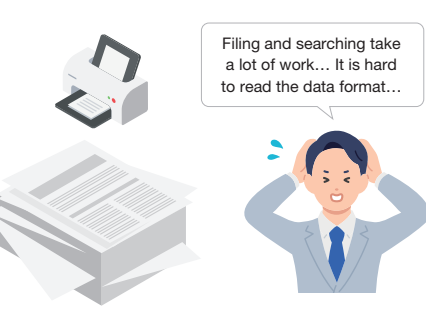
Go paperless with PDF output of data sheets. Contribute to carbon neutrality.

Reporting Function

V10 TS4000 X1

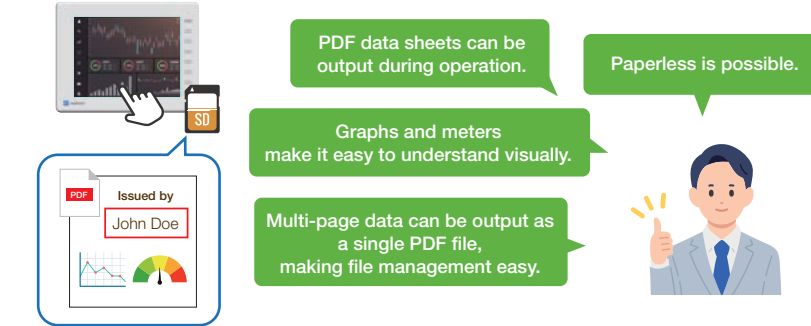
Before

Currently we output inspection results via hardcopy printing, however we want to set up a paperless system...



After

PDF files can be output with the layout unchanged. With the extended features, designs using graphs and meters are available. You can also add handwritten electronic signatures.

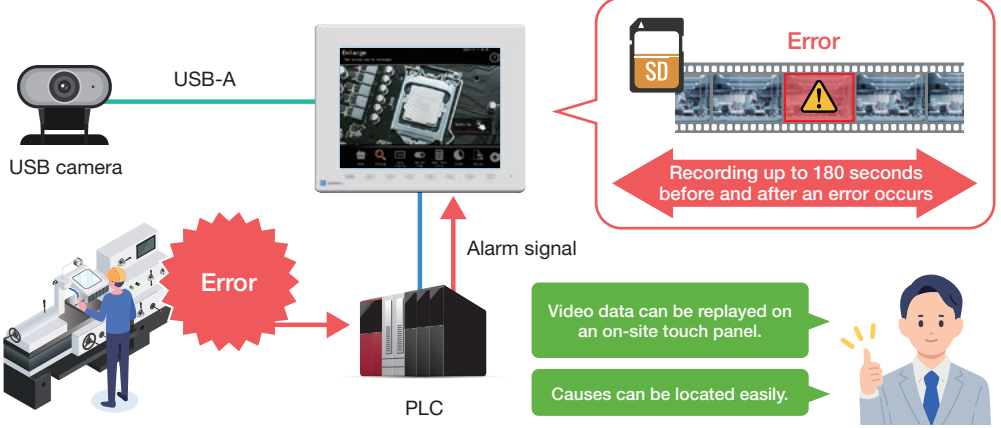


Display images from a USB camera. Recorded footage when an error occurs can help investigate the cause.

Event Recording Function

V10

Operation status before and after the error can be recorded. By looking back at the saved video, causes can be identified quickly and easily, improving on-site operating efficiency.



Check blind spots and distant areas with camera feeds

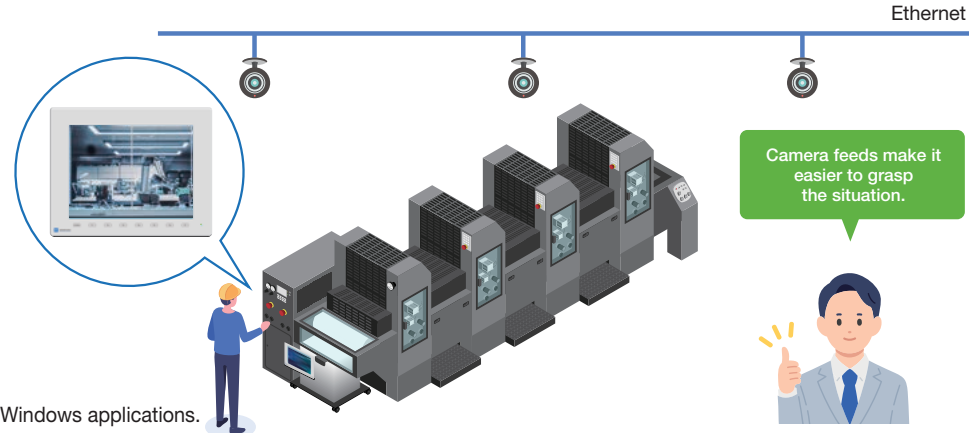
Network Cameras

V10 TS4000

Install network cameras in narrow, inaccessible or distant areas, and display the camera feeds on the HMI unit. The entire site can be checked, leading to safety improvements.

Up to 255 cameras can be registered, and images from up to 4 cameras can be displayed simultaneously.

X1 Available for display in Windows applications.



On-site viewing of video manuals for better understanding and work efficiency.

Video Playback

V10

Video files (mp4) can be played.

The work procedures can be checked on video, allowing anyone to perform daily maintenance work and recovery work in the event of troubles.

Recorded files saved with the event recording function can also be played back.

X1 Available for display in Windows applications.



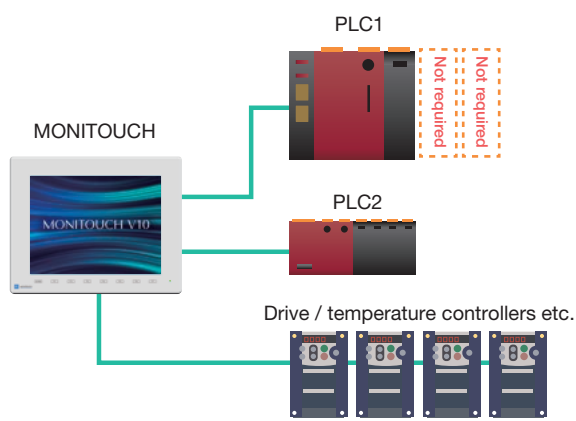
Reduce program design time and connection unit equipment costs.

8-way Communication

Reduce the time required to design programs by having MONITOUCH handle the connection with devices.

Equipment can be expanded without the need for units, leading to cost reduction.

Additionally, data can be shared between devices at intervals specified by MONITOUCH.



V10 TS4000 X1

Industry-leading number of connectable devices *1

77 manufacturers 466 protocols *2

Connectable device list

<https://monitouch.fujielectric.com/site/support-e/list27.html>

*1 According to our own research *2 As of April 2025

Reduce debugging and maintenance time through remote monitoring and operation.

VNC Server Function

The HMI screen can be displayed and operated on a tablet or PC. Remote operation is possible during debugging and maintenance, saving time.

Our “Simple Remote” VNC application is available free of charge.



X1 Available for display in Windows applications.

Download Simple Remote

<https://monitouch.fujielectric.com/site/support-e/download-index-01.html>

Changes in the data are analyzed and used for preventive maintenance.

Trend Analysis

Before

I'm checking the quality of products using trend graphs, but there is nothing to compare them to, so it is difficult to understand whether the quality is good or bad...

I want to compare it with past data, and also display the past production data in a graph...

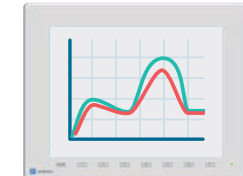
Waveform monitor screen



After

Past and current trend data can be superimposed. Visually understand trends in production data while checking changes in data during the manufacturing process in real time. Obtain improved yields by using it for preventive maintenance.

Waveform monitor screen



Even if you switch screens, the previous graphs are displayed superimposed, making it easy to understand changes in quality.

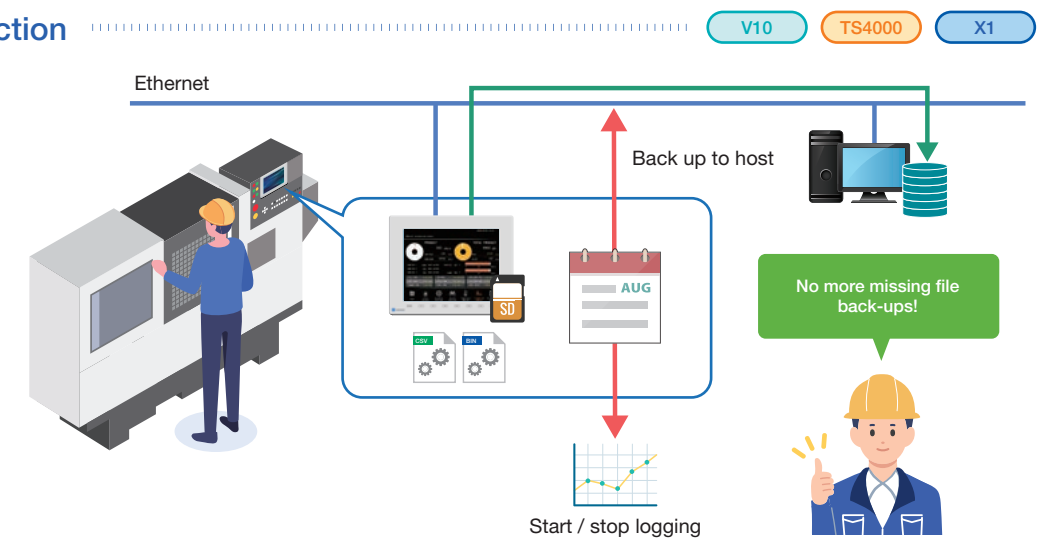


V10 TS4000 X1

Prevent omission of work by scheduling function execution

Scheduler Function

Operations can be scheduled and executed by month, day and time, preventing forgetting to execute due to human error. Since functions are executed automatically, it also leads to a reduction in work time.

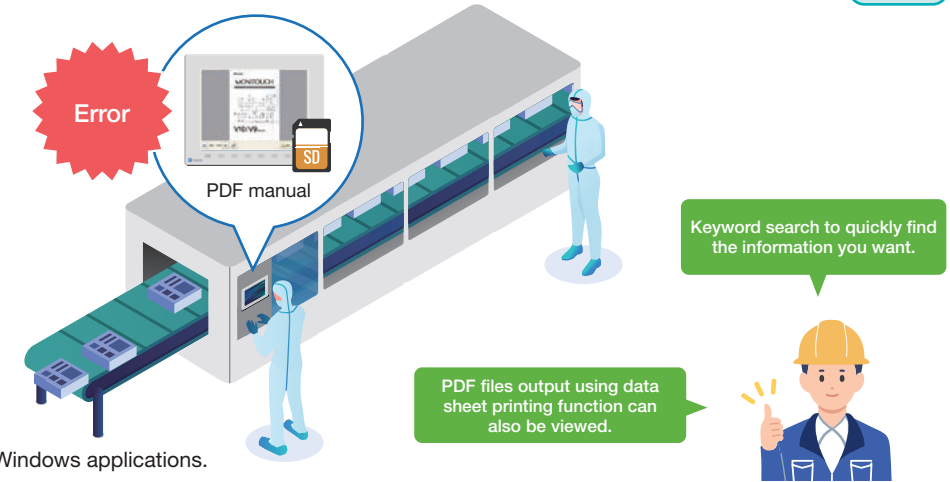


V10 TS4000 X1

On-site PDF files viewing reduces recovery time in the event of an error.

PDF Viewer

Even in environments where you need to change your clothes or take an air shower, such as in a clean room, you can instantly check PDF files without going to the office to pick up the manual.



V10

X1 Available for display in Windows applications.

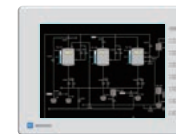
The entire system can be grasped by scrolling operation.

Scrolling Function

Before

Switching screens makes it difficult to understand the overall situation...

When a lot of information is displayed, visibility and operability become poor...

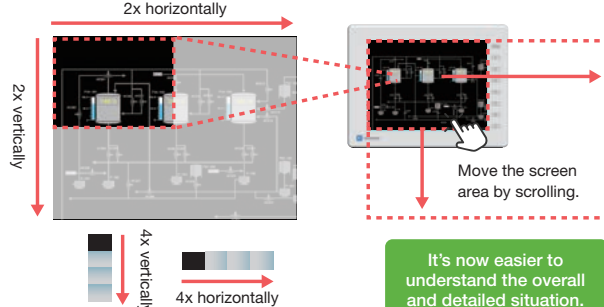


The whole picture doesn't fit to a screen...



After

Scrolling display is possible by creating a screen larger than the HMI unit's resolution (up to 4 times the display size). Even screens with a large amount of information, such as an overall plant diagram, can be displayed without switching screens.



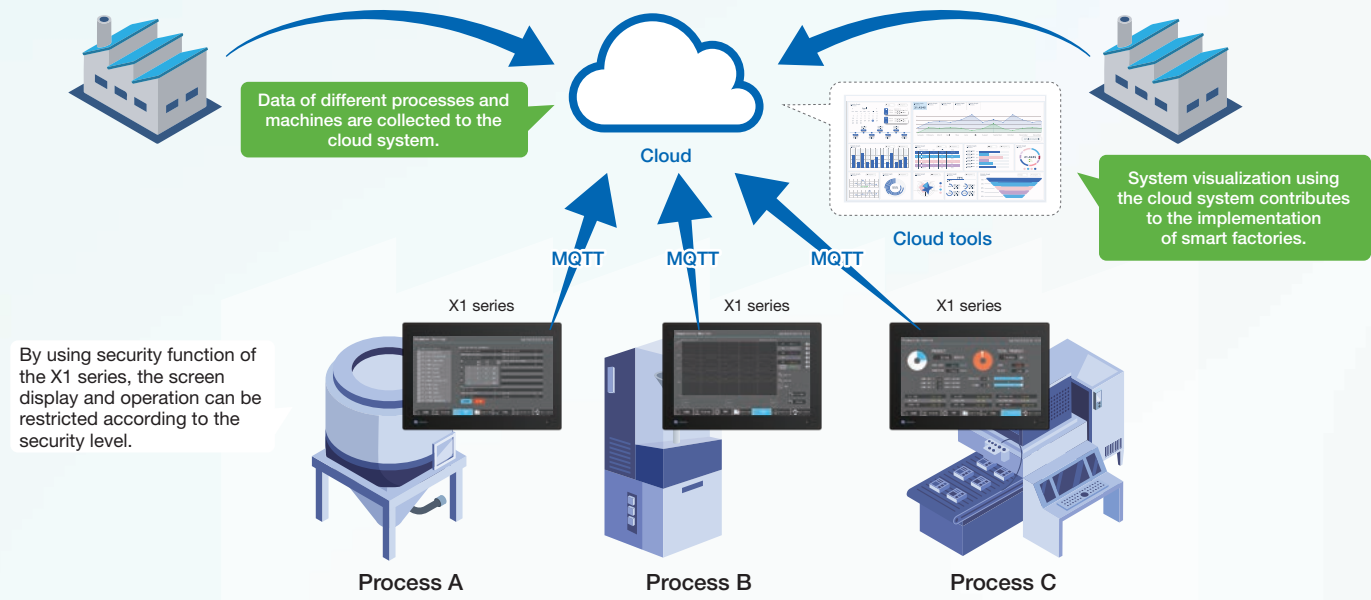
V10 TS4000 X1

Application example > Analysis of production issues using the cloud

Pharmaceutical equipment

X1

Increased efficiency and improvement of the production system is realized by connecting to the cloud and analyzing, visualizing and identifying trends of the collected data. Besides, it contributes to ensuring the security in pharmaceutical manufacturing by installing the X1 series on pharmaceutical equipment that requires high-level security management.

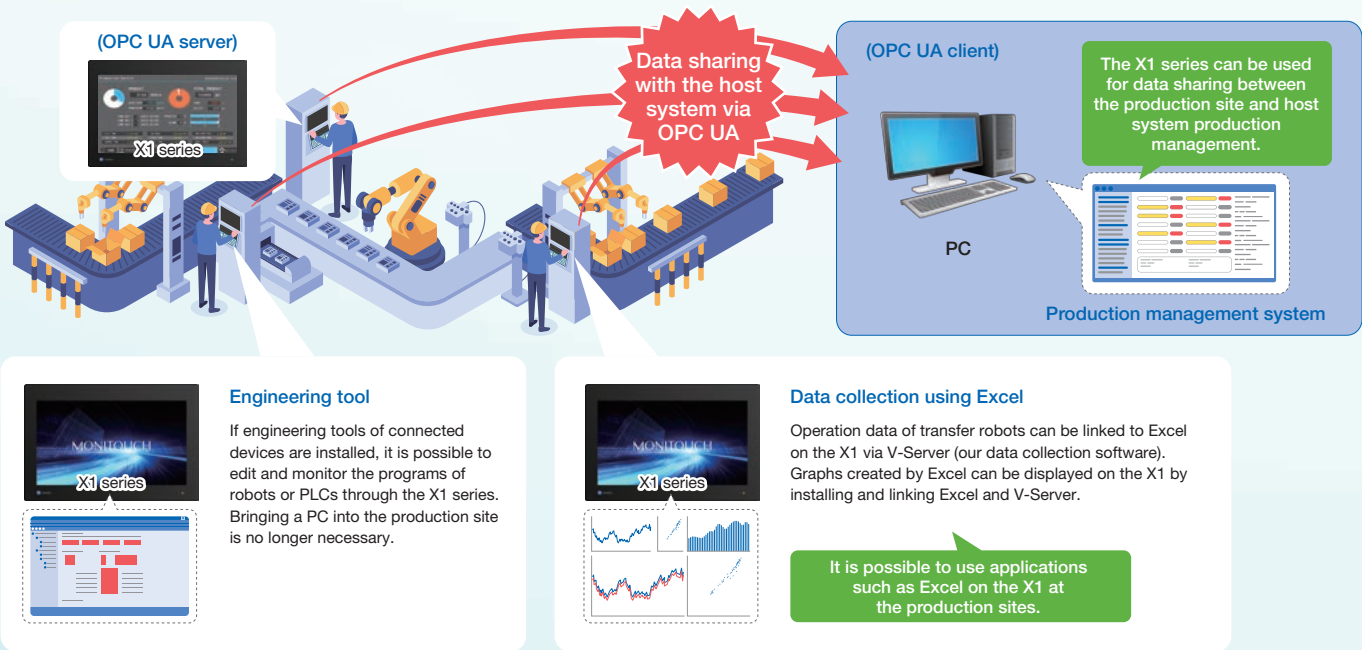


Application example > Connection to IT system for centralized management of equipment status

Workpiece conveyor

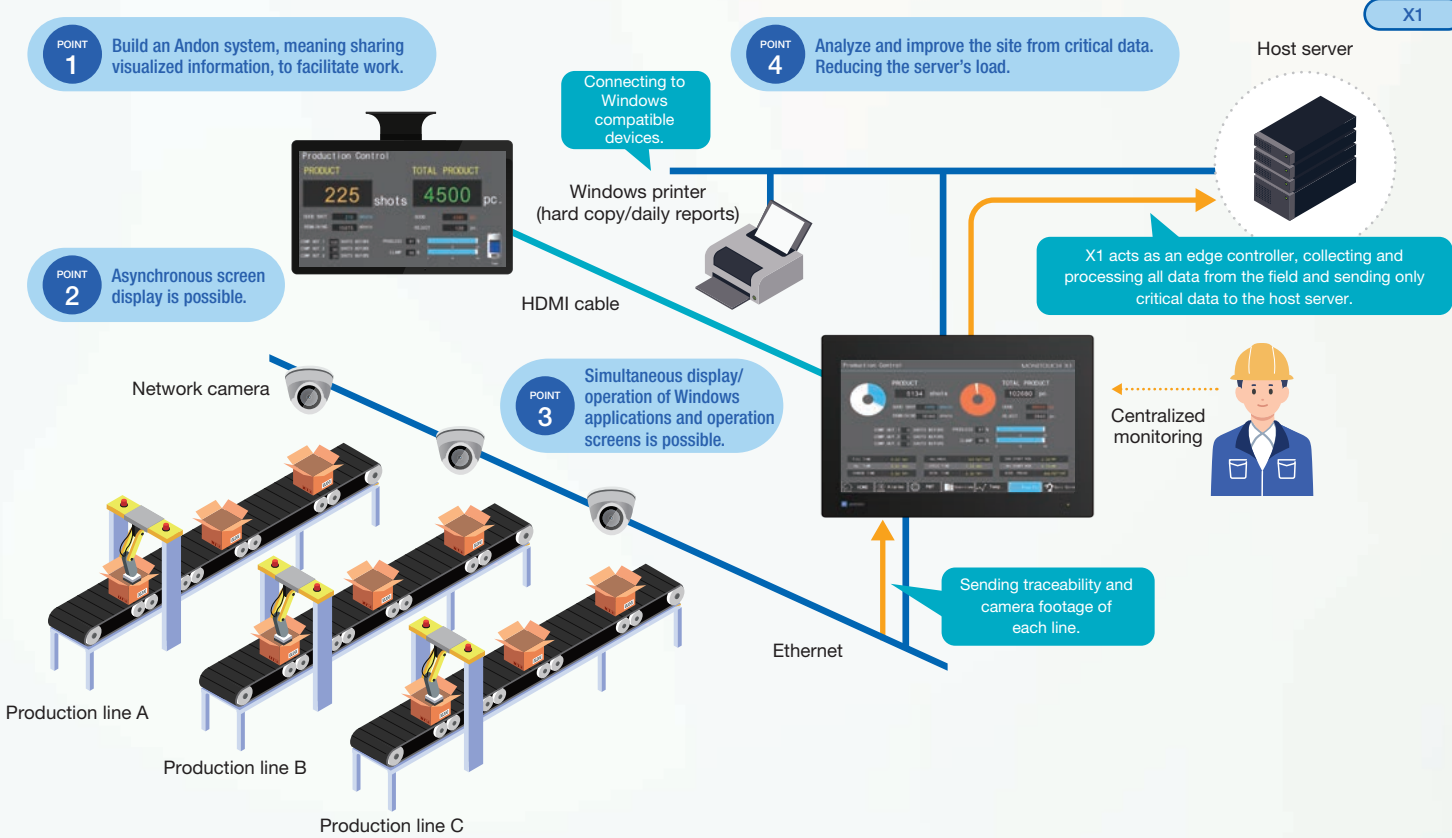
X1

The X1 series collects data from multiple machines at production sites and shares it with the host system via OPC UA. This helps to improve productivity and product quality, and it facilitates the standardization of equipment. Adoption of the X1 series for devices equipped with industrial robots adds further value to the robots that contribute to factory automation.



Application example > Optimization of production equipment visualization and traceability

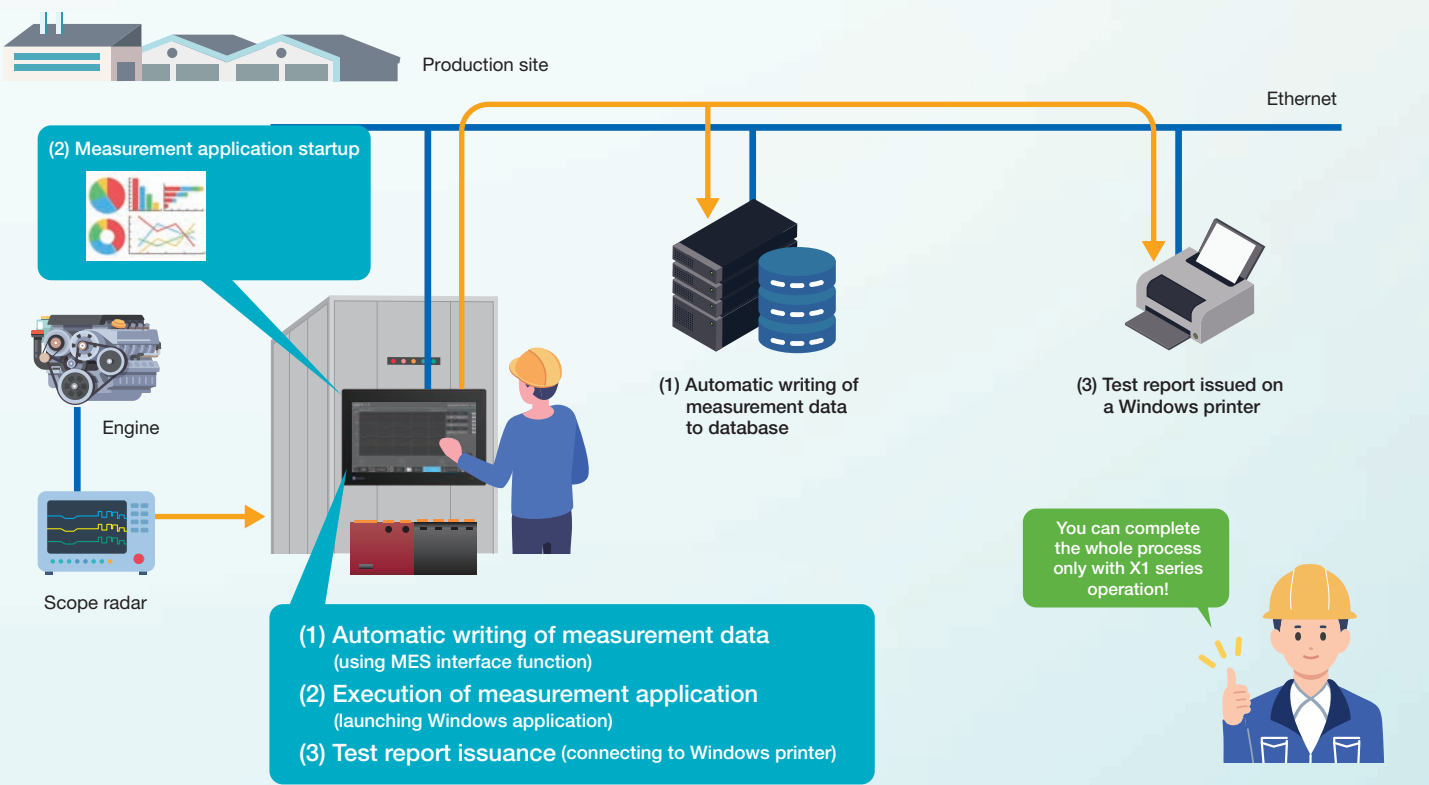
X1



Application example > Automated data entry in the inspection process

X1

3 roles in 1 unit with the X1 series!
Automation of data entry work enables a significant reduction in man-hours.

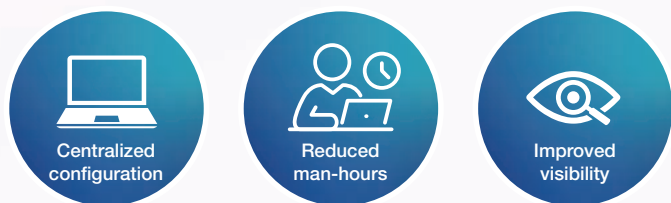
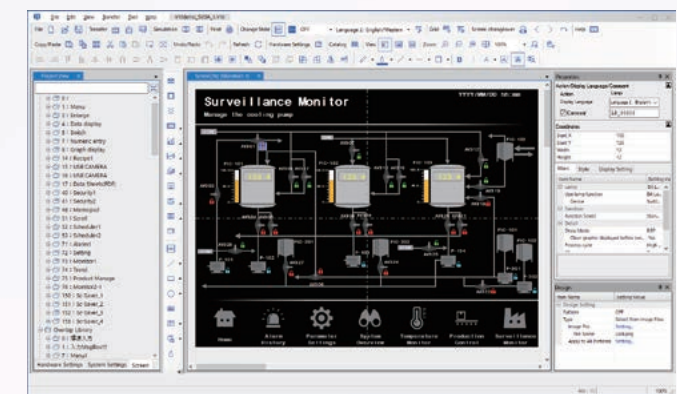


Screen creation has evolved from “learned” to “intuitive” with our smart configuration software.

MONITOUCH Smart Editor



The user interface has been completely redesigned to enable stress-free, intuitive screen creation.



Centralized configuration

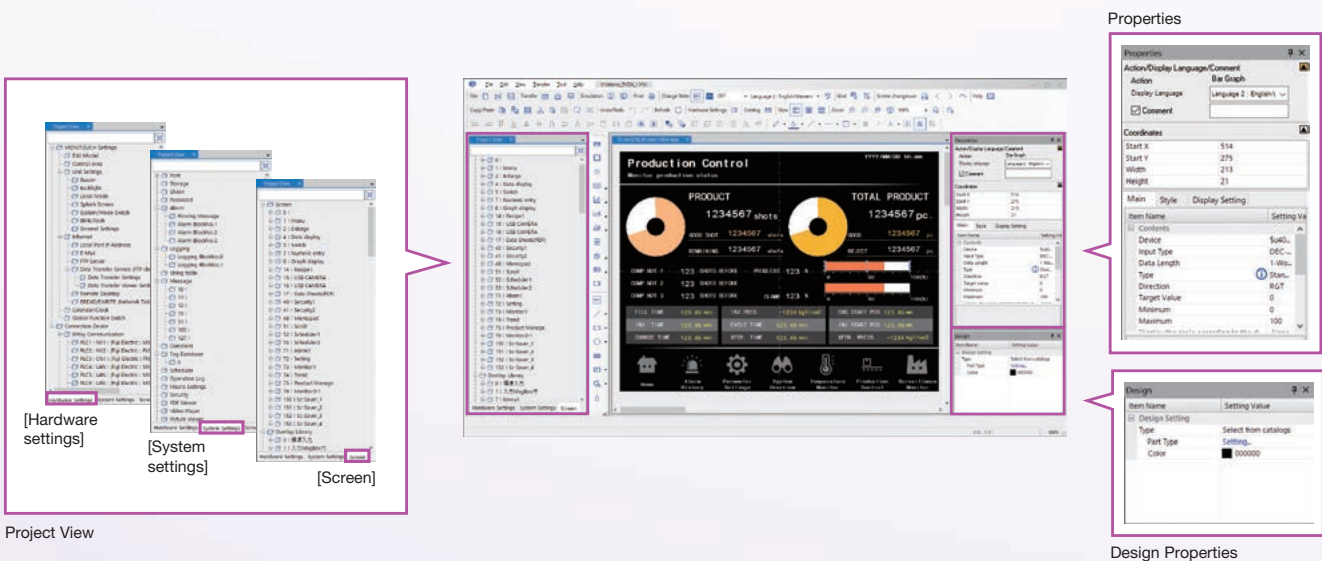
Intuitive configuration, Project View and Properties

Project View Point

All file settings are consolidated in Project View. Hierarchic tree configuration provides easy confirmation and configuration of the entire project.

Properties / Design Properties Point

Detailed settings and design attributes for individual items are consolidated in Properties. Configuration can be performed without disruption.



Configuration, from the entire project to individual screens, is consolidated into Project View, and individual settings into Properties. The flow of left to right enables quick, intuitive configuration.



Reduced man-hours

Reduced debugging time with speedy start-up and screen data transfer



Speedy start-up



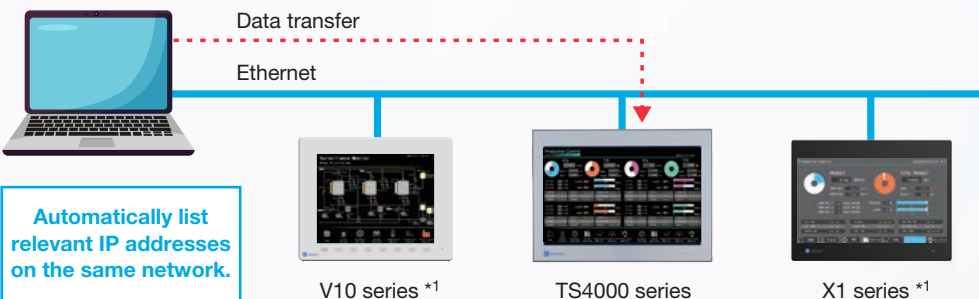
Speedy screen data transfer

Example of transfer performance

Simply click the “Search All” button in the transfer menu to display a list of MONITOUCH models and IP addresses that exist on the same network. Even if the IP address is unknown, you can transfer screen data.

Search result

Model	IP address
V1010iS	192.168.1.10
TS4100i	192.168.1.15
X1121iSD	192.168.1.20



*1 Scheduled to be supported in October 2025.

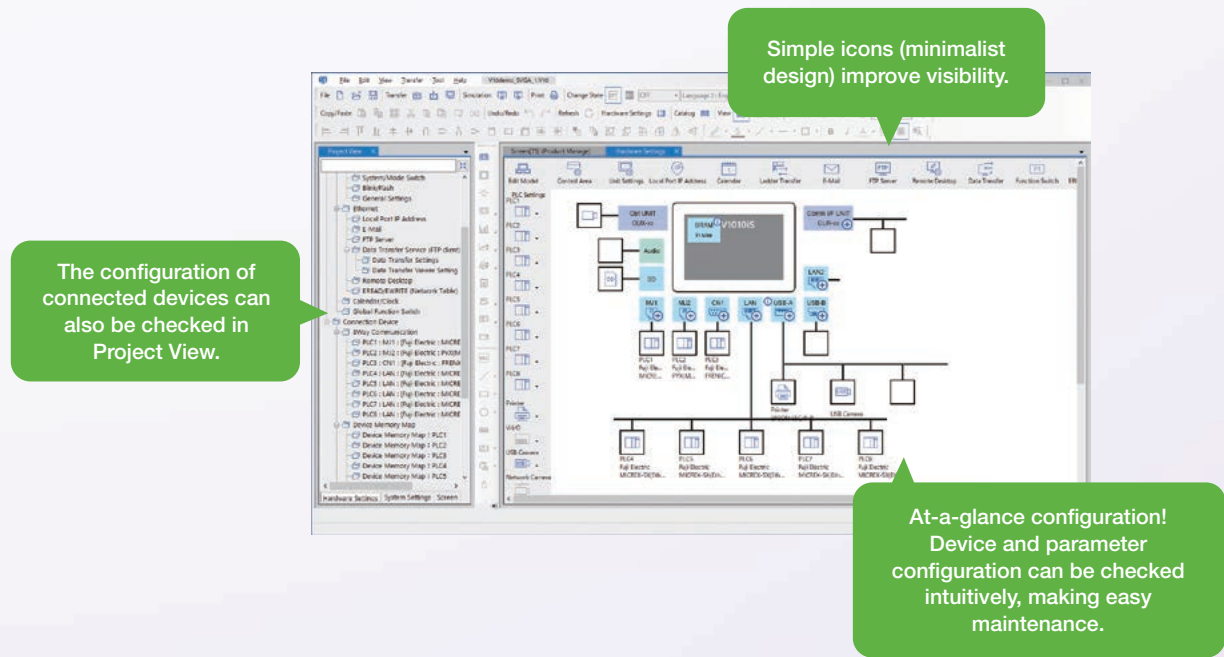


Minimal wait time for start-up and screen data transfer drastically improves operational efficiency.



Improved visibility

Hardware settings for intuitive configuration and checking of connected devices



The configuration of connected devices can also be checked in Project View.

Simple icons (minimalist design) improve visibility.

At-a-glance configuration! Device and parameter configuration can be checked intuitively, making easy maintenance.

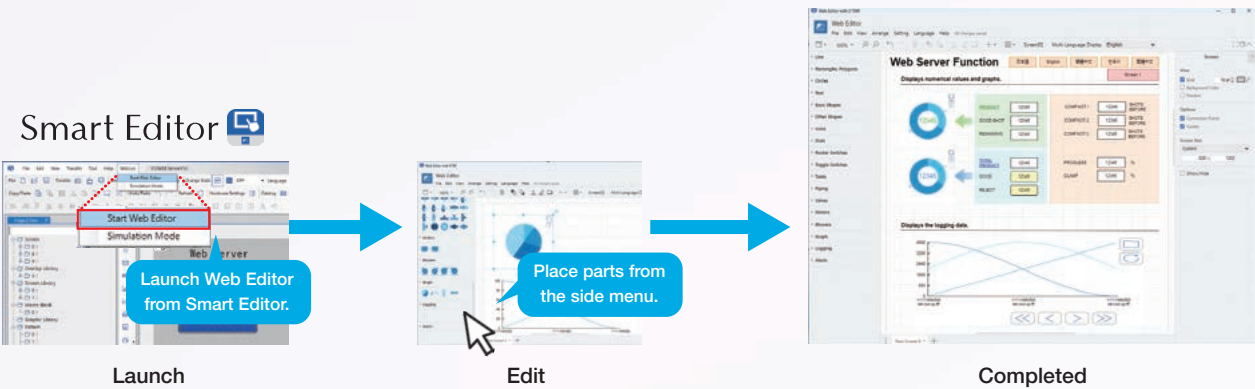


Information on connected devices such as PLCs, temperature controllers, inverters and USB cameras can be checked and configured easily and intuitively.

Smart Editor Features

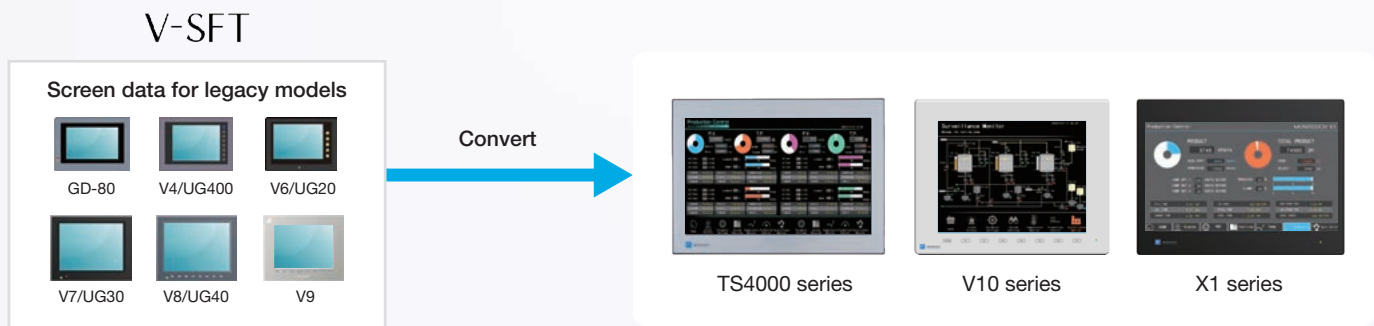
Web Editor

Smart Editor comes standard with the Web Editor that specializes in designing the Web Server function. Anyone can freely design web server screens without requiring programming skills. Up to 100 screens can be created, and switches, lamps, data displays, graphs, logging, and alarm displays can be placed on the web server screen. You can use the Web Server function by transferring screen data from Smart Editor to the HMI unit.



Screen Data Compatibility with Legacy Models

You can convert and edit screen data created with V-SFT for legacy models without any changes.



Screen data assets created with the configuration software prior to V-SFT can be converted and edited using Smart Editor.

System Requirements

PC	Personal computer for Windows	Hard disk	When installed: 6.0 GB or more
OS	Windows10(64bit) Windows11(64bit)	Disc drive ^{*1}	DVD-ROM drive
CPU	Windows 10: Intel Core 2 Duo 2GHz or higher recommended Windows 11: 2 cores or higher (64 bit) or System on a Chip (SoC)	Display	1920×1080 (Full HD) or greater
Memory	8GB or more recommended	Other	· Microsoft .NET Framework 4.0 or higher · Visual Studio 2015-2022 Visual C++ Redistributable packages (Automatically installed upon installation, if missing)

^{*1} Not required for the download version of Smart Editor.

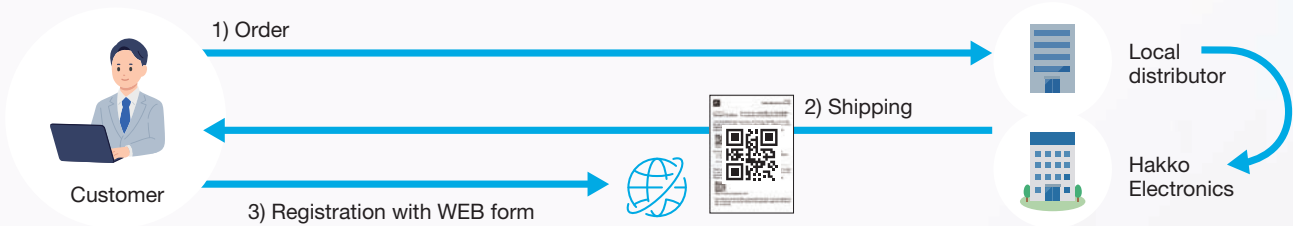
Models

Model	Product
SMED-DVD	MONITOUCH Smart Editor Single license - DVD
SMED-DVD-SL	MONITOUCH Smart Editor Site license - DVD
SMED-DL	MONITOUCH Smart Editor Single license - Download
SMED-DL-SL	MONITOUCH Smart Editor Site license - Download
SMED-DVD-VUP ^{*1}	MONITOUCH Smart Editor DVD for Version upgrade (License not included)

^{*1} This is a DVD for version upgrading, meant for those who have already installed Smart Editor. The update module is also downloadable from our website free of charge. (membership registration required.)

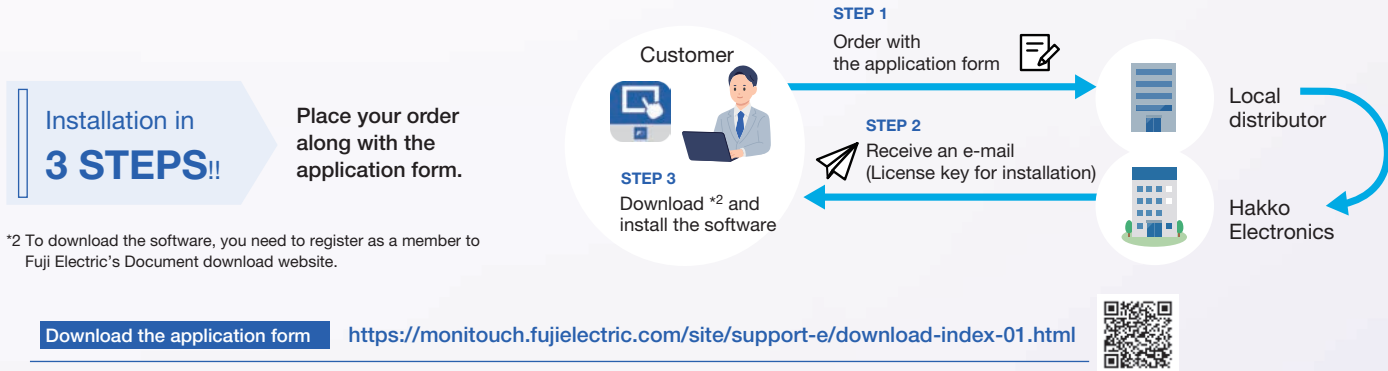
Site License

Site license is distributed on a worksite basis, and can be installed on an unlimited number of computers within the same worksite. Access the dedicated form from the QR code written in the document packaged with the DVD, and enter the required information to complete the site license registration.



How to Apply for SMED-DL

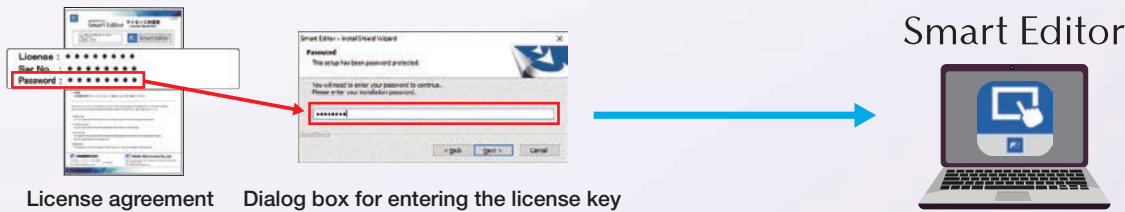
Place your order along with the application form at your local distributor, and you will receive a reply e-mail once the procedure is complete.

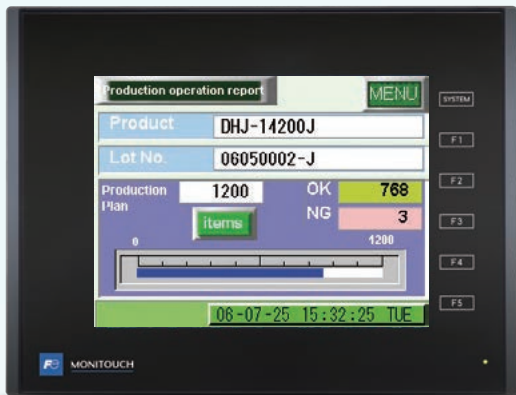


^{*2} To download the software, you need to register as a member to Fuji Electric's Document download website.

Installation Procedure

The installation is started by entering the license key written in the license agreement.





TECHNOSHOT

5.7"QVGA64K colorTFTLED Backlight2ch SerialUSB miniBDC Power Supply

CEULUS

With Ethernet port

TS2060i

10.5M FROM512K SRAMUSB ASD CardEthernetComm.*1Unit

*1 "DUR-00" or "CUR-xx" is mountable.

No Ethernet port

TS2060

2.5M FROM128K SRAM

V8 Handy Type



V808CH

7.5"VGA64K colorTFTLED Backlight2ch SerialCF CardUSB BDC Power Supply

CE

With Ethernet port

V808iCH

12.5M FROM512K SRAMEthernet

No Ethernet port

V808CH

4.5M FROM128K SRAM

V808CH Models

V808□CH□

	Key switch	Deadman switch	
		Type	External output
0	N/A	Momentary	N/A
1	Equipped	Momentary	N/A
2	N/A	3-position	1-contact
3	Equipped	3-position	1-contact
4	N/A	3-position	2-contact

[Feature Specifications]
N/A: No built-in LAN port
i: Built-in LAN port

	Model	Display Size	Resolution	Touch Switch	Unit Color	Power Supply	Network	Graphic
V10	Programmable Operator Interface							
	V1015IS	15.0"	1024 × 768	Analog resistance film	Light gray	AC	CUR-xx	—
	V1015ISDC					DC	CUR-xx	—
	V1015ISLDC						CUR-xx	—
	V1015ISRDC					CUR-xx	—	
	V1015ISB				Black *1	AC	CUR-xx	—
	V1015ISBDC					DC	CUR-xx	—
	V1015ISLBDC						CUR-xx	—
	V1015ISRBDC					CUR-xx	—	
	V1015ISG				Light gray	AC	CUR-xx	GUX-xx
	V1015ISDG					DC	CUR-xx	GUX-xx
	V1015ISLDG						CUR-xx	GUX-xx
	V1015ISBG					Black *1	AC	CUR-xx
	V1015ISBDG	DC	CUR-xx	GUX-xx				
	V1015ISLBDC		CUR-xx	GUX-xx				
	V1012IS	12.1"	800 × 600	Analog resistance film	Light gray		AC	CUR-xx
	V1012ISDC					DC	CUR-xx	—
	V1012ISLDC						CUR-xx	—
	V1012ISRDC					CUR-xx	—	
	V1012ISB				Black *1	AC	CUR-xx	—
	V1012ISBDC					DC	CUR-xx	—
	V1012ISLBDC						CUR-xx	—
	V1012ISRBDC					CUR-xx	—	
	V1012ISG				Light gray	AC	CUR-xx	GUX-xx
	V1012ISDG					DC	CUR-xx	GUX-xx
	V1012ISLDG						CUR-xx	GUX-xx
	V1012ISBG					Black *1	AC	CUR-xx
	V1012ISBDG	DC	CUR-xx	GUX-xx				
	V1012ISLBDC		CUR-xx	GUX-xx				
	V1010IS	10.4"	800 × 600	Analog resistance film	Light gray		AC	CUR-xx
	V1010ISDC					DC	CUR-xx	—
	V1010ISLDC						CUR-xx	—
	V1010ISRDC					CUR-xx	—	
	V1010ISB				Black *1	AC	CUR-xx	—
	V1010ISBDC					DC	CUR-xx	—
	V1010ISLBDC						CUR-xx	—
	V1010ISRBDC					CUR-xx	—	
	V1010ISG				Light gray	AC	CUR-xx	GUX-xx
	V1010ISDG					DC	CUR-xx	GUX-xx
	V1010ISLDG						CUR-xx	GUX-xx
	V1010ISBG					Black *1	AC	CUR-xx
	V1010ISBDG	DC	CUR-xx	GUX-xx				
	V1010ISLBDC		CUR-xx	GUX-xx				
	V1008ISDC	8.4"	800 × 600	Analog resistance film	Light gray		DC	CUR-xx
	V1008ISLDC					CUR-xx		—
	V1008ISRDC					CUR-xx		—
	V1008ISBDC					CUR-xx		—
	V1008ISLBDC				CUR-xx	—		
	V1008ISRBDC				CUR-xx	—		
	V1008ISG				Light gray	AC		CUR-xx
V1008ISDG	DC					CUR-xx		GUX-xx
V1008ISLDG						CUR-xx		GUX-xx
V1008ISBG	Black *1					AC		CUR-xx
V1008ISBDG					DC	CUR-xx		GUX-xx
V1008ISLBDC						CUR-xx		GUX-xx
TS4000		TS4150i	15.6" wide	1366 × 768	Analog resistance film	Silver *2	DC	—
	TS4120i	12.1" wide	1280 × 800	DC			—	—
	TS4100i	10.1" wide	1024 × 600	DC			—	—
	TS4070i	7.0" wide	800 × 480	DC			—	—
X1	X1151ISD	15.6" wide	1920 × 1080	PCAP (Capacitive type)	Black	DC	—	—
	X1151ISRD						—	—
	X1152ISD						—	—
	X1121ISD	12.1" wide	1280 × 800			DC	—	—
	X1121ISRD						—	—
TS2000	TS2060i	5.7"	320 × 240	Analog resistance film	Black	DC	CUR-xx *3	—
	TS2060						—	—
V808CH	V808ICH□ *4	7.5"	640 × 480	Analog resistance film	Black	DC	—	—
	V808CH□ *4						—	—

*1 The rear case is light gray. *2 The case is black. *3 "DUR-00" and "CUR-xx" cannot be attached at the same time.
*4 Models vary depending on the key switch and deadman switch specifications. Please contact us.

Model	Product
SOFT MONITOUCH	
TELLUS and V-Server	TELLUS and V-Server license (Password validation)
TELLUS-HMI	TELLUS-HMI license (Password validation)
TELLUS-HMI iPad	TELLUS-HMI iPad license (Password validation)
TELLUS-Remote	TELLUS-Remote license (Password validation)
V-Server	V-Server license (Password validation)
TELLUS and V-Server USB Key	TELLUS and V-Server license (USB license key)
TELLUS-HMI USB Key	TELLUS-HMI license (USB license key)
TELLUS-Remote USB Key	TELLUS-Remote license (USB license key)
Web Machine interface VPN remote access service	
VPN-V	Value type 1st year (Max. 10 stations)
VPN-S	Simple type 1st year (Max. 30 stations)
VPN-W	Wide type 1st year (Max. 100 stations)
VPN-E	Extra type 1st year (Unlimited stations)
VPN-VR	Value type renewal fee (Max. 10 stations)
VPN-SR	Simple type renewal fee (Max. 30 stations)
VPN-WR	Wide type renewal fee (Max. 100 stations)
VPN-ER	Extra type renewal fee (Unlimited stations)

Optional Accessories List

Model	Product	V10	TS4000	X1	TS2000	V808CH
Configuration Software						
SMED-DL	MONITOUCH Smart Editor Single license - Download	✓	✓	✓	✓	✓
SMED-DL-SL	MONITOUCH Smart Editor Site license - Download	✓	✓	✓	✓	✓
SMED-DVD	MONITOUCH Smart Editor Single license - DVD	✓	✓	✓	✓	✓
SMED-DVD-SL	MONITOUCH Smart Editor Site license - DVD	✓	✓	✓	✓	✓
SMED-DVD-VUP	MONITOUCH Smart Editor DVD for Version upgrade	✓	✓	✓	✓	✓
V-SFT-6	V-SFT Ver.6 Single license - DVD	✓		✓	✓	✓
Cables *1						
V-CP	Screen transfer cable (3m)	✓			✓	
UA-FR	USB-A extension cable (1m)	✓	✓		✓	
V6-MLT	Multi-link 2 master cable (3m)	✓			✓	
V6-TMP	Temperature controller cable (3m)	✓			✓	
V6-TMP-5M	Temperature controller cable (5m)	✓			✓	
V6-TMP-10M	Temperature controller cable (10m)	✓			✓	
V6-BCD	Barcode reader cable (3m)	✓			✓	
D9-FU-SPBCPU-2M	Fuji Electric SPH*3, SPB CPU (RJ45) RS-485 (4-wire type)	✓	✓		✓ *2	
D9-FU-SPBCPU-3M		✓	✓		✓ *2	
D9-FU-SPBCPU-5M		✓	✓		✓ *2	
D9-FU-SPFCPU-2M	Fuji Electric SPF CPU (Mini DIN4) RS-232C	✓	✓ *4		✓ *2	
D9-FU-SPFCPU-3M		✓	✓ *4		✓ *2	
D9-FU-SPFCPU-5M		✓	✓ *4		✓ *2	
D9-MB-CPUQ-2M	MITSUBISHI ELECTRIC A series / QnA series CPU (Dsub25) RS-422	✓	✓		✓ *2	
D9-MB-CPUQ-3M		✓	✓		✓ *2	
D9-MB-CPUQ-5M		✓	✓		✓ *2	
D9-MB-CPUQ-10M		✓	✓		✓ *2	
D9-MB-CPUQ-15M		✓	✓		✓ *2	
D9-QCPU2-2M	MITSUBISHI ELECTRIC Q series CPU (Mini DIN6) RS-232C	✓	✓ *4		✓ *2	
D9-QCPU2-3M		✓	✓ *4		✓ *2	
D9-QCPU2-5M		✓	✓ *4		✓ *2	
D9-QCPU2-10M		✓	✓ *4		✓ *2	
D9-QCPU2-15M		✓	✓ *4		✓ *2	
D9-MI2-09-2M	MITSUBISHI ELECTRIC link unit (Dsub9) RS-232C	✓	✓ *4		✓ *2	
D9-MI2-09-3M		✓	✓ *4		✓ *2	
D9-MI2-09-5M		✓	✓ *4		✓ *2	
D9-MI2-09-10M		✓	✓ *4		✓ *2	
D9-MI2-09-15M		✓	✓ *4		✓ *2	
D9-MI4-FX-2M	MITSUBISHI ELECTRIC FX series CPU (Mini DIN8) RS-422	✓	✓		✓ *2	
D9-MI4-FX-3M		✓	✓		✓ *2	
D9-MI4-FX-5M		✓	✓		✓ *2	
D9-MI4-FX-10M		✓	✓		✓ *2	
D9-MI4-FX-15M		✓	✓		✓ *2	
D9-D25	Dsub9-Dsub25 conversion cable (0.3m)	✓			✓ *2	
D9-COM2	RS-232C conversion cable for replacement of V9/V8 with TS4000 (0.3m)		✓			
D9-COM3	RS-485 conversion cable for replacement of V9/V8 with TS4000 (0.3m)		✓			
MJF-COM2COM3	RS-232C conversion cable for replacement of TS2000 with TS4000 (0.3m)		✓			
MJ2F-COM1	RS-422/485 conversion cable for replacement of TS2000 with TS4000 (0.3m)		✓			
V8H-C3	V808CH external connection cable (3m)					✓
V8H-C5	V808CH external connection cable (5m)					✓
V8H-C15	V808CH external connection cable (15m)					✓
V8H-C20	V808CH external connection cable (20m)					✓
Waterproof Gaskets						
TS4150-WP	Waterproof gasket (for TS4150i)		✓			
TS4120-WP	Waterproof gasket (for TS4120i)		✓			
TS4100-WP	Waterproof gasket (for TS4100i)		✓			
TS4070-WP	Waterproof gasket (for TS4070i)		✓			

*1 PLC connection cables other than those listed above are also available. Please contact us for more information.
*2 TS2060i+DUR-00 only. *3 Cannot be used with some CPU hardware versions. D9-FU-SPHCPU-□M is required separately. Please contact us for more information.
*4 Conversion cable D9-COM2 is required. *5 Available for TS2060i only. *6 GUX-xx is only for use with V10 series G-type.

Model	Product	V10	TS4000	X1	TS2000	V808CH
Communication Units						
CUR-00	OPCN-1 (For V10/TS2060i)	✓			✓ *5	
CUR-01	T-Link (For V10/TS2060i)	✓			✓ *5	
CUR-02	CC-Link (For V10/TS2060i)	✓			✓ *5	
CUR-03	Ethernet (For V10/TS2060i)	✓			✓ *5	
CUR-04	PROFIBUS-DP (For V10/TS2060i)	✓			✓ *5	
CUR-06	SX-bus (For V10/TS2060i)	✓			✓ *5	
CUR-07	DeviceNet (For V10/TS2060i)	✓			✓ *5	
CUR-08	FL-net (For V10/TS2060i)	✓			✓ *5	
CUR-09	EtherCAT (For V10)	✓			✓ *5	
Expansion Units *6						
GUX-00	Video input 4CH	✓				
GUX-01	RGB input 1CH	✓				
GUX-02	RGB output 1CH	✓				
GUX-04	Video input 1CH	✓				
GUX-10	Video input 2CH + RGB input 1CH	✓				
GUX-11	RGB input 2CH	✓				
DUR-00	Optional unit for V907xiW/V9060iTD/TS2060i				✓ *5	
Serial Expansion I/O Unit						
V-I/O	Serial expansion I/O unit for V10/TS4000/TS2000	✓	✓		✓	
Communication Terminal Block						
TC-D9	Terminal converter for V10/TS4000/TS2000	✓	✓		✓	
Battery						
V9-BT	Replacement battery for V10	✓				
X1-BT	Replacement battery for X1			✓		
TS-BT	Replacement battery for TS4000/TS2000		✓		✓	
V7-BT	Replacement battery for V808CH					✓
Protection Sheets (5 sheets per set)						
V1015S-GS	Protection sheet for V1015iS	✓				
V1015S-GSN10	Protection sheet for V1015iS (Non-glare)	✓				
V1012S-GS	Protection sheet for V1012iS	✓				
V1012S-GSN10	Protection sheet for V1012iS (Non-glare)	✓				
V1010S-GS	Protection sheet for V1010iS	✓				
V1010S-GSN10	Protection sheet for V1010iS (Non-glare)	✓				
V1008S-GS	Protection sheet for V1008iS	✓				
V1008S-GSN10	Protection sheet for V1008iS (Non-glare)	✓				
TS4150S-GS	Protection sheet for TS4150		✓			
TS4150S-GSN10	Protection sheet for TS4150 (Non-glare)		✓			
TS4120S-GS	Protection sheet for TS4120		✓			
TS4120S-GSN10	Protection sheet for TS4120 (Non-glare)		✓			
TS4100S-GS	Protection sheet for TS4100		✓			
TS4100S-GSN10	Protection sheet for TS4100 (Non-glare)		✓			
TS4070S-GS	Protection sheet for TS4070		✓			
TS4070S-GSN10	Protection sheet for TS4070 (Non-glare)		✓			
V906T-GS	Protection sheet for TS2000				✓	
V906T-GSN10	Protection sheet for TS2000 (Non-glare)				✓	
V608CH-GSN10	Protection sheet for V808CH (Non-glare)					✓
Security Software						
X1-SS	USB media for X1 security function setup			✓		



TEL

+81-76-274-2144



E-mail

sales@hakko-elec.co.jp



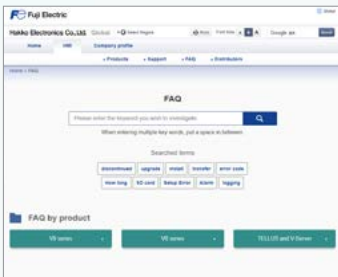
WEB

www.monitouch.com



Various information
regarding MONITOUCH.

- Questions
- FAQ page (useful for troubleshooting)
- Manual
- Upgrading configuration software, etc.



Global Sales Network

Our distributors are ready to support your worldwide business.

www.monitouch.com/site/distributors-e/
distributors-oversea-01.html



The warranty of this product is as follows, unless there are special instructions that state otherwise in the quote, contract, catalog, or specifications at the time of the quote or order.

The purpose or area of use may be limited, and a routine checkup may be required depending on the product. Please contact the distributor from which you purchased the product, or Fuji Electric/Hakko Electronics for further information.

Please conduct inspection of the product promptly upon purchase or delivery. Also, please give sufficient consideration to management and maintenance of the product prior to accepting it.

1 Period and Coverage of the Warranty

1-1 Period

- (1) The period of the warranty is effective until twenty-four (24) months from the date of manufacture printed on the plate.
- (2) The above period may not be applicable if the particular environment, conditions or frequency of use affects the lifetime of the product.
- (3) The warranty for the parts repaired by our service department is effective for six (6) months from the date of repair.

1-2 Coverage

- (1) If malfunction occurs during the period of warranty due to negligence on the part of Fuji Electric/Hakko Electronics, the malfunctioning parts are exchanged or repaired free of charge at the point of purchase or delivery. However, the warranty does not apply to the following cases:
 - 1) The malfunction occurs due to inappropriate conditions, environment, handling or usage that is not specified in the catalog, instruction book or users' manual.
 - 2) The malfunction is caused by factors that do not originate in the purchased or delivered product.
 - 3) The malfunction is caused by another device or software design that does not originate in a Fuji Electric/Hakko Electronics product.
 - 4) The malfunction occurs due to an alteration or repair that was not performed by Fuji Electric/Hakko Electronics.
 - 5) The malfunction occurs because the expendable parts listed in the instruction book or catalog were not maintained or replaced in an appropriate manner.
 - 6) The malfunction occurs due to factors that were not foreseeable by the practical application of science and technology at the time of purchase or delivery.
 - 7) The malfunction occurs because the product is used for a purpose other than that for which it is intended.
 - 8) The malfunction occurs due to a disaster or natural disaster that Fuji Electric/Hakko Electronics are not responsible for.
- (2) The warranty is only applicable to the single purchased and delivered product.
- (3) The warranty is only valid for the conditions stated in 1-1 (1) above. Any damage induced by the malfunction of the purchased or delivered product, including damage or loss to a device or machine and passive damage, is not covered by the warranty.

1-3 Malfunction Diagnosis

The initial diagnosis of malfunction is to be made by the purchaser. The diagnosis can be conducted by Fuji Electric/Hakko Electronics or our delegated service provider with due charge upon the request of the purchaser. The charge is to be paid by the purchaser at the rate stipulated in the rate schedule of Fuji Electric/Hakko Electronics.

2 Liability for Opportunity Loss

Regardless of the time of occurrence, Fuji Electric/Hakko Electronics are not liable for damage caused by factors that Fuji Electric/Hakko Electronics are not responsible for, opportunity loss on the part of the purchaser caused by the malfunction of a Fuji Electric/Hakko Electronics product, passive damage, damage due to a special situation regardless of whether it was foreseeable or not, or secondary damage, accident compensation, damage to products that were not manufactured by Fuji Electric/Hakko Electronics, or compensation towards other operations.

3 Period for Repair and Provision of Spare Parts after Production is Discontinued (Maintenance Period)

Discontinued models (products) can be repaired for seven (7) years from the date of discontinuation. Also, most spare parts used for repair are provided for seven (7) years from the date of discontinuation. However, some electric parts may not be available due to their short life cycle. In this case, it may be difficult to repair or provide the parts during the seven-year period. Please contact Fuji Electric/Hakko Electronics or our service providers for further information.

4 Delivery

Standard products that do not entail application setting or adjustment are regarded as received by the purchaser upon delivery. Fuji Electric/Hakko Electronics are not responsible for local adjustments and test runs.

5 Service

The price of the delivered or purchased products does not include the service fee for the technician. Please contact Fuji Electric/Hakko Electronics or our service providers for further information.

6 Scope of Application

The above contents shall be assumed to apply to transactions and product use in the country where a Fuji Electric/Hakko Electronics product is purchased. Please consult your local supplier or Fuji Electric/Hakko Electronics for details.



Safety Considerations

- For safe operation, read the instruction manual or user manual that comes with the product carefully or consult the distributor from which you purchased the product, before using the product.
- Products introduced in this catalog have not been designed or manufactured for such applications in a system or equipment that will affect human bodies or lives.
- Customers, who want to use the products introduced in this catalog for special systems or devices such as for atomic-energy control, aerospace use, medical use, passenger vehicle, and traffic control, are requested to consult your distributor or us.
- Customers are requested to prepare safety measures when they apply the products introduced in this catalog to such systems or facilities that will affect human lives or cause severe damage to property if the products become faulty.
- For safe operation, wiring should be conducted only by qualified engineers who have sufficient technical knowledge about electrical work or wiring.

Notes to consider before purchasing

- Appearance and specifications are subject to modification without prior notice due to technical improvements.
- Colors in the catalog may differ from the actual colors due to printing inaccuracies.
- Consult your distributor or us for further information about products in this catalog.

www.monitouch.com

Sales company :

Fuji Electric Co., Ltd.

URL : www.fujielectric.com/

Gate City Ohsaki, East Tower,
11-2, Osaki 1-chome, Shinagawa-ku,

Tokyo 141-0032, Japan

Phone : +81-3-5435-7066

Fax : +81-3-5435-7475

Manufacturer :

Hakko Electronics Co., Ltd.

URL : www.monitouch.com/

890-1 Kamikashiwano-machi,
Hakusan, Ishikawa 924-0035, Japan

Phone : +81-76-274-2144

Fax : +81-76-274-5136

E-mail : sales@hakko-elec.co.jp

Distributor

* Product specifications and design are subject to modification.

* Combined images are used for the screen images.

* Product colors may differ from colors in brochure photos due to printing.

* Windows and Excel are trademarks of Microsoft (USA) in the U.S. and other countries.

* Other company and product names in this brochure are registered trademarks.

* QR Code is a registered trademark of DENSO WAVE INCORPORATED in Japan and in other countries.