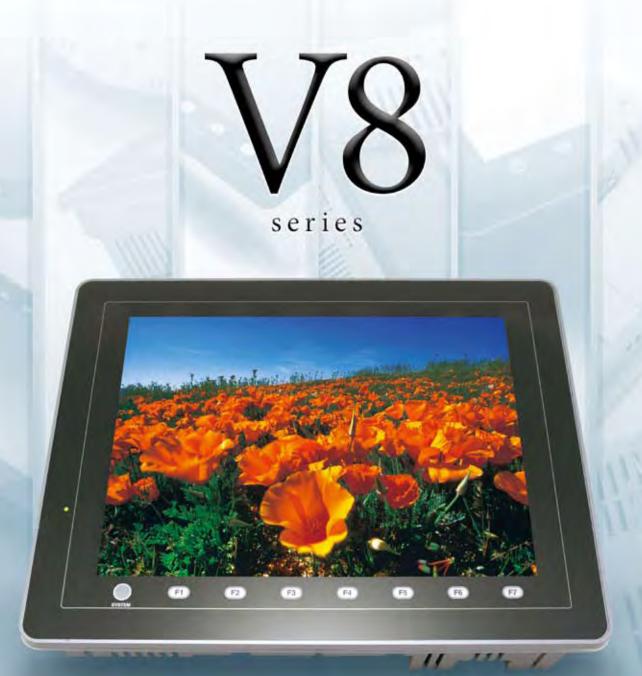


MONITOUCH



Expanding the Possibilities of the Future

Hakko Electronics Co., Ltd. w w w . m o n i t o u c h . c o m

MONITOUCH V8 series

For optimal performance, connectivity and usability
The MONITOUCH V8 series has expanded the potential of
programmable operator interface panels.

Realize the Ideal



High Performance

The new MONITOUCH series has realized the best possible performance with a newly developed high-speed algorithm and a high level of visibility for efficient operation.

Connectivity

8-way communication with up to eight kinds of devices and two USB channels ensure high compatibility and expandability of your system.

Usability

User-friendly component parts and functional switches enable simple and speedy display configuration.





■65,536 colors ■30 fps video display in 16 million colors ————————————————————————————————————	P12
Analog switches —	P 13
Compatible with 8-way communication	P14
Equipped with two USB channels (master/slave)	P16
■Multi-output memory ■ON delay/ OFF delay ■Conditional visibility —	P18
Pop-up window Flash ROM 12.5MB/ SRAM 512KB	
Alarm enhancement	P20
Multi-link 2 Ethernet function	P21
Configuration software V-SFT	■ P22
Component parts	■ P24
■ Ethernet expansion	■ P26
MES interface	■ P28
Specifications —	P29
Dimensions and part names	P32
System configuration	P34
, ,	P36
	P37
Option list ————————————————————————————————————	P38
Customer service ————————————————————————————————————	P39
Product warranty ————————————————————————————————————	F39

Our wide range of products allows you to sele

		15.0 inches	12.1 inches	10.4
NEW	el	V815iX	V812iS/V812S	V810iS/V810S
V8 series	High-performance model	TFT XGA 64K	TFT SVGA 64K	TFT SVGA GAK
Revolutionary features for production				
sites: 8-way communication and 16-million colors high-resolution video display. As well as V8 series have the same panel cutouts as V7 series, the V7 screen program can be utilized in V8 series. A multi-feature model with the ultimate operator interface panel.	Standard model			
	del	V715X	V712iS/V712S	V710iS/V710S
V7 series	High-performance model	TFT XGA 32K color	TFT SVGA 32K Color	TFT SVGA 32K Golder
Comes in a variety of models		7.2		
including large-size (15-inch XGA) and small-size (5.7-inch). A versatile and high-ranking series that can be widely used ranging from the net working to standalone.	Standard mode			
series Has all of the basic functions. Entry-level models that will satisfy your needs in superior usability and cost-effectiveness.	Standard model			

ect the one that best fits your needs.

			TFT Display SVGA Display 64K Display color color
inches	8.4 inches	7.7 inches	5.7 inches
V810iT/V810T	V808iSD/ V808SD		
TFT VGA 64K	TFT SVGA 64K		
V810iC/V810C	V808iCD/ V808CD	V808iCH/ V808CH	V806iTD/ V806iCD/ V806iMD/ V806TD V806CD V806MD
TFT VGA 64K Color	TFT VGA 64K	TFT VGA 64K Color	TFT QVGA 64K STN QVGA 64K STN QVGA MONO
V710iT/V710T	V708iSD/ V708SD		
TFT VGA 32K	TFT SVGA 32K Color		
V710C		V708CD	V706TD V706CD V706MD
TFT VGA 228		STN VGA 128	TFT QVGA 32K STN QVGA 32K STN QVGA MONO
		V608CH	V606eC V606eM
		STN VGA 128 Color	STN QVGA 16 COOF STN QVGA MONO

815 series

All information at the production site is displayed on the XGA wide screen! Flagship model in V8 series.

15-inch model **C**€ : (1) US *3

Flagship model XGA 65,536 colors





15 Inches TFT XGA 64K 12.5M 512K 3ch color FROM SRAM serial I/F USB Analog Ether

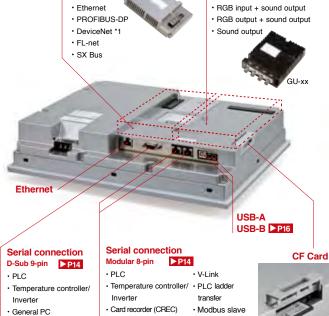
V815iX RGB Sption option option option option option option

V815 models

V815iXD option RGB option option option

 $V815iX \ \ \, \boxed{} \ \ \, \text{[Power supply specifications] N/A: AC100-240V specifications]} \ \ \, \text{D: DC24V (CE/UL/cUL approved)} \\$





	Model	V815iX
Б	Display size	15 inches
cati	Display device	TFT color LCD
Ş	Resolution	1,024×768 dots
sb	Display colors	65,536 colors(without blinks)/32,768 colors(with blinks)
Basic specification	Display memory	FROM (12.5MB)
<u>~~</u>	Backup memory	SRAM (512KB)
	D-Sub 9-pin CN1	RS-232C, RS-422/485, Asynchronous Data length: 7 bits, 8 bits, Parity: even, odd, none Stop bit: 1 bit, 2 bits Baud rate: 4800, 9600, 19200, 38400, 57600, 76800, 115200, 187500 ^{*2} bps
Interface	Modular 8-pin MJ1/MJ2	RS-232C • RS-422/485(2-wire), Asynchronous Data length: 7 bits, 8 bits Parity: even, odd, none Stop bit: 1 bit, 2 bits Baud rate: 4800, 9600, 19200, 38400, 57600, 76800, 1152000ps
	Ethernet	100BASE-TX /10BASE-T Built-in
	Communication I/F	Equipped
	Extend I/F	Equipped
	CF card I/F	Equipped
	USB I/F	Type A and B(Ver1.1)
	Video (4ch)	GU-00
	RGB input	GU-01
S	RGB output	GU-02
Options	Video (2ch)+RGB input	GU-10
g	RGB input (2ch)	GU-11
	Sound output	GU-00 ~ 03
	Communication unit	CU-00 ~ 08
	I/O unit	V-I/O
Compatibility	CE Marking*3	EN61000-6-2, EN61000-6-4
pati	UL/cUL*3	UL508
		Complied

- *1 Under development
 *2 When connected with SIEMENS MPI
 *3 Only with 24V DC models

Legend of icons

· Bar code reader





V-I/O

· Bar code reader





· Printer (serial)

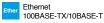












$V812_{\text{series}}$

High visibility and stability of SVGA. Offers you high performance.

12.1-inch model (6 $^{\circ}$ us -3

High-performance model SVGA 65,536 colors



12.1 TFT SVGA 64K 12.5M 512K 3ch COM CF A-B LISB

With Ethernet port

V812iS Ether option RGB option option option

Without Ethernet port

V812S Ether

V812 models

V812 □ S □□ -[Power supply specifications] N/A: AC100-240V specifications D: DC24V (CE/UL/cUL approved)

-[Touch switch specifications] N/A: Analog resistive switch M: Matrix resistive switch

-[Functional specifications] N/A: Without built-in LAN port, without optional unit port i: With built-in LAN port, with optional unit port

10	Communication un	its	Optional	units
	• OPCN-1		Video inc	out + RGB input
	• T-Link	CU-xx	• RGB inp	•
	• CC-Link	Page 1	Video inp	out + sound output
	• Ethernet	1	• RGB inp	ut + sound output
	• PROFIBUS-DP	m 3	• RGB out	put + sound output
	DeviceNet *1	0	Sound or	utput
	• FL-net			<u> </u>
(SX Bus		4	
			683	
				GU-xx
	· · · · · ·		32	
			-	
111	- 100			and the same
11		and the second		
Betteren		A.	tin all	
* 11111			444	
Serial connection		- 64		
Modular 8-pin	P14			SB-A SB-B ▶P16
• PLC	• V-Link		100	9B-B 12110
Temperature controlle	er/ • Touch switch			
Inverter	 PLC ladder transfer 	Ethe	ernet	05.01
Card recorder (CREC)		Serial conn	ection	CF Card
Bar code reader	 Printer (serial) 	D-Sub 9-pin	▶P14	1 3
• V-I/O		• PLC		/454
		 Temperature 	controller/	400
		Inverter		
		 General PC 		

	Model	V812iS	V812S			
Ę	Display size	12.1 inches				
Basic specification	Display device	TFT color LCD				
öţį	Resolution	800×60	00 dots			
sbe	Display colors	65,536 colors(without blinks	s)/32,768 colors(with blinks)			
Sic	Display memory	FROM				
Ва	Backup memory	SRAM	(512KB)			
	D-Sub 9-pin CN1	RS-232C, RS-422/485, Asynchronous Data length: 7 bits, 8 bits, Parity: even, odd, none Stop bit: 1 bit, 2 bits Baud rate: 4800, 9600, 19200, 38400, 57600, 76800, 115200, 187500 2bps				
Interface	Modular 8-pin MJ1/MJ2	RS-232C • RS-422/485 Data length: 7 bits, 8 bits Stop bit: 1 Baud rate: 4800, 90 57600, 76800	Parity: even, odd, none bit, 2 bits 600, 19200, 38400,			
	Ethernet	100BASE-TX /10BASE-T Built-in	Option (CU-03-3)			
	Communication I/F	Equipped				
	Extend I/F	Equipped –				
	CF card I/F	Equipped				
	USB I/F	Type A and B(Ver1.1)				
	Video (4ch)	GU-00	-			
	RGB input	GU-01	-			
	RGB output	GU-02	-			
Options	Video (2ch)+RGB input	GU-10	-			
þ	RGB input (2ch)	GU-11	-			
•	Sound output	GU-00 ~ 03	-			
	Communication unit	CU-00 ~ 08				
	I/O unit	V-I	/O			
Jilis	CE Marking*3	EN61000-6-2,	EN61000-6-4			
Compatibility	UL/cUL*3	UL508/L	JL1604 ^{*4}			
ğ	RoHS directive	Com	plied			
*1 U	Inder development	*2 When connected with SIE	MENS MPI			

- *1 Under development *2 when connected v *3 Only with 24V DC models *4 Contact us if UL1604 needs to be supported.









· Bar code reader













High-performance panels in 65,536 colors Three grades of models from standard to high-performance

10.4-inch model (ϵ Luster *5



Highly-functional model VGA

Standard model VGA





With Ethernet port

V810iS Ether RGB (a)

Without Ethernet port

V810S Ether option





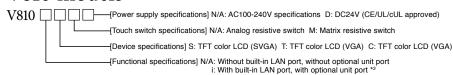
V810iT Ether option option option option Without Ethernet port V810T Ether



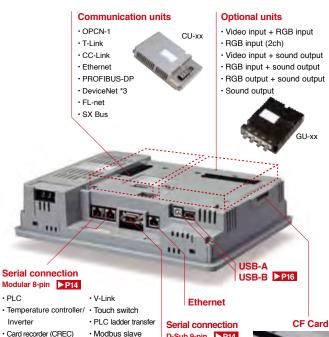


V810iC Ether Without Ethernet port V810C*1 Ether

V810 models



- *1 FROM 4.5Mbytes SRAM 128Kbytes
- *2 Optional ports are not available in V810iC





	Model	V810iS	V810S	V810iT	V810T	V810iC	V810C
	Display size		10.4 inches				
5	Display device		TFT color LCD				
äţi	Resolution	800×60	00 dots		640×48	30 dots	
čĘ	Display colors	65,5	36 colors	without blinks	s)/32,768 c	olors(with bl	inks)
Basic specification	Display memory		F	ROM (12.5M	B)		FROM (4.5MB)
B	Backup memory		S	RAM (512K	В)		SRAM (128MB)
			RS-2320	C, RS-422/	485, Asyno	hronous	
	D-Sub 9-pin CN1	Stop	bit: 1 bit, 2	bits, 8 bits 2 bits, Bauc 00, 76800,	d rate: 480	0, 9600, 19	9200,
Interface	Modular 8-pin MJ1/MJ2	R: Data	S-232C • F a length: 7 1 bit, 2 bit	8S-422/485 bits, 8 bits s, Baud rai 7600, 7680	(2-wire), A Parity: ev te: 4800, 9	synchrono ven, odd, n 600, 19200	us ione
Inte	Ethernet	100BASE-TX /10BASE-T Built-in	Option (CU-03-3)	100BASE-TX /10BASE-T Built-in	Option (CU-03-3)	100BASE-TX /10BASE-T Built-in	Option (CU-03-3)
	Communication I/F		Equipped				
	Extend I/F	Equipped	-	Equipped	-	-	_
	CF card I/F	Equipped					
	USB I/F			Type A and	d B(Ver1.1)		
	Video (4ch)	GU-00	-	GU-00	-	-	-
	RGB input	GU-01	-	GU-01	-	-	-
	RGB output	GU-02	-	GU-02	-	-	-
ons	Video (2ch)+RGB input	GU-10	-	GU-10	-	-	-
Options	RGB input (2ch)	GU-11	-	GU-11	-	-	-
O	Sound output	GU-00 ~ 03	-	GU-00 ~ 03	-	-	-
	Communication unit			CU-00	08 ~ 0		
	I/O unit			V-I	/0		
-jij	CE Marking*5		EN	61000-6-2,	EN61000-	6-4	
Compatibility	UL/cUL ^{*5}			UL508/U	JL1604 ^{*6}		
9	RoHS directive			Com	plied		
*5 C	Inder development Only with 24V DC m Contact us if UL1604	odels		l with SIEM	ENS MPI		

Legend of icons

· Bar code reader

• V-I/O





· Printer (serial)



D-Sub 9-pin ▶P14

· Temperature controller/ Inverter · General PC · Bar code reader

• PLC















V808series

Compact yet functional panels in 65,536 colors. SVGA models are also available.

8.4-inch model (6 $^{\text{c}}$ using

High-performance model SVGA

Standard model VGA

8.4 TFT VGA 64K 12.5M 512K 3ch COM CF A*B DC USB power Analog

With Ethernet port V808iCD

Without Ethernet port

V808CD*1 Ether option















Without Ethernet port



V808 models

V808 □□ D

-[Device specifications] S: TFT color LCD (SVGA) C: TFT color LCD (VGA)

-[Functional specifications] N/A: Without built-in LAN port, without optional unit port i: With built-in LAN port, with optional unit port *2

*1 FROM 4.5Mbytes • SRAM 128Kbytes *2 Optional ports are not available in V808iC



	Model	V808iSD	V808SD	V808iCD	V808CD			
E	Display size							
Basic specification	Display device	TFT color LCD						
ij	Resolution	800×60	800×600 dots 640×48					
sbe	Display colors	65,536 co	lors(without blinks)/32,768 colors	(with blinks)			
Sic	Display memory		FROM (12.5MB)		FROM (4.5MB)			
Ba	Backup memory		SRAM (512KB)		SRAM (128MB)			
	D-Sub 9-pin CN1	Data lengt	232C, RS-422/h: 7 bits, 8 bits Stop bit: 1 4800, 9600, 19 115200, 18	, Parity: even, bit, 2 bits 200, 38400,570	odd, none			
Interface	Modular 8-pin MJ1/MJ2	Data lengt	C • RS-422/485 h: 7 bits, 8 bits Stop bit: 1 4800, 9600, 192 11520	Parity: even, bit, 2 bits 200, 38400, 57	odd, none			
_	Ethernet	100BASE-TX /10BASE-T Built-in	Option (CU-03-3)	100BASE-TX /10BASE-T Built-in	Option (CU-03-3)			
	Communication I/F		Equi	pped				
	Extend I/F	Equipped	-	-	-			
	CF card I/F		Equi	pped				
	USB I/F		Type A and	d B(Ver1.1)				
	Video (4ch)	GU-00	-	-	-			
	RGB input	GU-01	-	-	-			
"	RGB output	GU-02	-	-	-			
Options	Video (2ch)+RGB input	GU-10	-	-	-			
Opt	RGB input (2ch)	GU-11	-	-	-			
	Sound output	GU-00 ~ 03	-	-	-			
	Communication unit		CU-00	0 ~ 08				
	I/O unit		V-I					
Compatibility	CE Marking		EN61000-6-2,					
mpat	UL/cUL		UL508/L					
පි	RoHS directive		Com	plied				
				MENO MDI				

- *3 Under development *4 When connected w *5 Contact us if UL1604 needs to be supported. *4 When connected with SIEMENS MPI

Communication

· General PC

· Bar code reader





· Bar code reader

• V-I/O





· Printer (serial)















High-performance compact models

5.7-inch model ($\epsilon_{ t user}$

Standard model QVGA 65,536 colors

Standard model QVGA (16 grayscale)







With Ethernet port V806iTD Ether OF OPTION

Without Ethernet port V806TD Ether option option

V806 models

With Ethernet port V806iCD

Without Ethernet port V806CD^{*1} Ether Option Option

-{Device specifications] T: TFT color LCD (QVGA) C: STN color LCD (QVGA) M: STN monochrome LCD (QVGA)

-[Functional specifications] N/A: Without built-in LAN port i: With built-in LAN port

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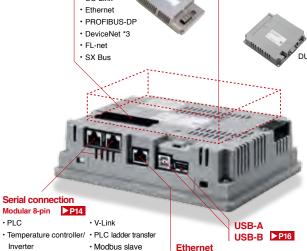


With Ethernet port



- *1 SRAM 128Kbytes
- *2 Concurrent use of Ethernet and CF card is not available





Display size		V806TD	V806iCD	V806CD	V806iMD	V806MD
			5.7 in	ches		
Display device	TFT col	or LCD	STN col	or LCD	STN monoc	hrome LCD
Resolution			320×24	0 dots		
Display colors						yscale olinks)
Display memory			FROM	(4.5MB)		
Backup memory	SRAM (512KB)	SRAM (128KB)	SRAM (512KB)	SRAM (128KB)	SRAM (512KB)	SRAM (128KB)
D-Sub 9-pin CN1 ^{*4}	RS-232C · RS-422/485(2-wire), Asynchronous Data length: 7 bits, 8 bits Parity: even, odd, none Stop bit: 1 bit, 2 bits Baud rate: 4800, 9600, 19200, 38400, 57600, 76800, 115200bps					
Modular 8-pin MJ1/MJ2 ^{*5}		a length: 7	bits, 8 bits Stop bit: 1 4800, 9600	Parity: e bit, 2 bits , 19200, 3	ven, odd, r 3400,57600	
Ethernet	100BASE-TX /10BASE-T Built-in	Option (CU-03-3)	100BASE-TX /10BASE-T Built-in	Option (CU-03-3)	100BASE-TX /10BASE-T Built-in	Option (CU-03-3)
Communication I/F			Equip	oped		
CF card I/F			Equip	ped ^{*4}		
USB I/F	Type A and B(Ver1.1)					
Communication unit			CU-00	0 ~ 08		
I/O unit			V-I	/O		
CE Marking		EN	61000-6-2,	EN61000-	6-4	
UL/cUL			UL508/	JL1604		
RoHS directive			Com	plied		
	Display colors Display memory Backup memory D-Sub 9-pin CN1 ¹⁴ Modular 8-pin MJ1/MJ2 ¹⁵ Ethernet Communication I/F CF card I/F USB I/F Communication unit I/O unit CE Marking UL/cUL	Display colors Display memory Backup memory SRAM (512KB) Ri D-Sub 9-pin CN1 ⁻⁴ Modular 8-pin MJ1/MJ2 ⁻⁵ Data B Ethernet 100BASE-TX //10BASE-T Built-in Communication I/F CF card I/F USB I/F Communication unit I/O unit CE Marking UL/cUL RoHS directive	Display colors Display memory Backup memory Backup memory Backup memory SRAM (128KB) RS-232C • F D-Sub 9-pin CN1 ^{*4} Baud rat 57 RS-232C Data length: 7 Baud rate: 4 768 Ethernet 100BASE-TX /10BASE-TX /10BASE-T Built-in Communication I/F CF card I/F USB I/F Communication unit I/O unit CE Marking UL/cUL ROHS directive	Display colors 32,768 colors(without blinks 32,768 colors(with blinks 32,768 colors(with blinks 32,768 colors(with blinks 52,768 colors 52,768 colors 52,768 colors 52,768 colors 52,769 colors	Display colors 32,768 colors(without blinks) 32,768 colors(without blinks) 32,768 colors(with blinks) 32,768 colors(with blinks) FROM (4.5MB) FROM (512KB) FROM (4.5MB) FROM (512KB) FROM (512KB)	Display colors 32,768 colors(without blinks) 16 gra

- *3 Under development
- *4 Available only when equipped with DU-10 (option)
- *5 MJ2 is connectable with RS-422 (4-wire)
 *6 Available only when connected with SIEMENS MPI (MJ2 only). Not compatible with D-Sub 9-pin (option)

Legend of icons

· Card recorder (CREC)

· Bar code reader V-I/O





· Printer (serial)

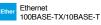












Pendant type model in V8 series 7.5-inch model C6 CONTROLL TO THE PORT OF THE

Pendant type model in V8 series

Handy type model supporting Ethernet



With Ethernet port

V808iCH Ether 12.5m

Without Ethernet port

V808CH 4.5M FROM SRAM



	Key switch	Deadman switch		
	Rey Switch	Switch type	External output	
0	Unequipped	Momentary	Unequipped	
1	Equipped	Momentary	Unequipped	
2	Unequipped	3-position	1 contact	
3	Equipped	3-position	1 contact	
4	Unequipped	3-position	2 contacts	

-[Functional specifications] N/A: Without built-in LAN port i: With built-in LAN port

V808iCHx

CF Card I/F	
ТВ3	
• RS-422/485	
Key switch output Emergency stop	۱
switch output	Į
Deadman switch output	6
USB-B	9
TB2	
• RS-232C	f
External output (4-point)	
Ethernet	
TR1	_

TB1 power supply (DC24V)
(DOZ4V)

		iiouci	VOCCIONA				
Display size			7.5 inches				
Display device			TFT color LCD				
	Resolution		640×480 dots				
	Display cold	ors	65,536 colors(without blinks) / 32,768 colors(with blinks)				
	Display mer	mory	FROM (12.5MB)	FROM (4.5MB)			
	Backup mer	mory	SRAM (512KB)	SRAM (128KB)			
	Clock		Equip	ped			
	Ethernet		100BASE-TX /10BASE-T Built-in	Unequipped			
	CF card I/F		Equip	ped			
	USB I/F		Type B (Ver1.1)			
no c	Number of f	unction switches	12 switches (4: E	External output)			
Function switch specifications	Switch type		Membran	e switch			
	Mechanical	life	1 million time	es or more			
Emergency stop switch specifications	Switch type		Push lock type (b-con	tact point, 2 circuits)			
Emergency stop switch specification	Mechanical	life	More than 10				
mer op s	Rated voltage	ge	DC24V				
я в	Rated curre	nt	1A (load resistance)				
itch tions	Contact poi	nt	a-contact po	int, 1 circuit			
Key switch specifications	Mechanical	life	More than 250,000 times				
	Electrical life	е	More than 100,000 times (switching frequency 1,200 times/h)				
_		Switch type	3-position output (a-contact point, 2 circuit*1)				
Deadman switch specifications	3-position	Mechanical life	Off \rightarrow On 1 million times or more Off \rightarrow On \rightarrow Off (direct open-circuit) more than 100,000 times				
an fica		Rated voltage	DC24V				
id m		Rated current	1A (load resistance)				
sb Sp	Momentary	Switch type	Momentary				
	Womentary	Mechanical life	1 million time	es or more			
al l/F	TB2		RS-232C, Asynchronous Data length: 7 bits, 8 bits Parity: even, odd, none Stop bit: 1 bit, 2 bits, Baud rate: 4800, 9600, 19200, 38400, 76800, 115200bps				
Extemal I/F	TB3		RS-422/485, Asynchronous Data length: 7 bits, 8 bits, Parity: even, odd, none Stop bit: 1 bit, 2 bits, Baud rate: 4800, 9600, 19200 38400, 76800, 115200, 187500 29ps				
pility	CE Marking		EN61000-6-2,	EN61000-6-4			
Compatibility	UL/cUL		UL5	08			
<u></u>	RoHS direct	tive	Comp	olied			
*1 0 00nto	ot point and	2 circuita ara av	ailable only in V909/i)CH4 Or	oly one circuit is available in			

^{*1} a-contact point and 2 circuits are available only in V808(i)CH4. Only one circuit is available in V808(i)CH2 and V808(i)CH3.
*2 When connected with SIEMENS MPI

Communication























duct Warranty Customer Se

Display Features

Improved visibility for operator interface panels

Great power of the visibility facilitates the operation by high-resolution and high-speed video display.

High-resolution Display

The image shown below is not an actual display image.

65,536 colors*1

(32,768 colors with blinks)

High-resolution display of 65,536 colors without blinks and 32,768 colors with blinks enables clear display of JPG and BMP images. Realistic appearance of photos, illustrations and 3D parts improves visibility and makes it easy for operators to quickly grasp the conditions.



1 Except V806iMD/V806MD

High-level images are displayed in real time without missing any information

Display of 30 fps video images in 16 million colors*2 First in Industry

High-speed displaying of 30 frames per second is possible. Even displays for production of a short tact time can be made without any delay.

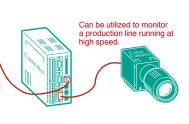
Monochrome display with 256 gradations*2

Monochrome images that are often used by image processor can be displayed more clearly. The reproduction capacity for gradation and pattern-indented surfaces has been drastically improved.









^{*2} For V808iS, 260,000-color displays and 64-gradation monochrome displays are possible.

Clear and smooth letters

The stroke font can be displayed to appear smooth even for magnified characters.

The stroke font is defined by lines. Since it does not depend on the resolution of the device, which is different from the bitmap font, fonts can be magnified or shrunk freely. Unicode enables you to edit the project in various languages.

Language		Japanese	English/ European	Traditional Chinese	Simplified Chinese	Korean	Central European	Cyrillic	Greek	Turkish	Unicode(UTF-8)
Non-gothic		Japanese/Japanese32	•	•	•	•	•	•	•	•	•
Bitmap font	Gothic	Gothic/Gothic (IBM extension)	Gothic (Mincho)	×	×	×	×	×	×	×	×
Stroke font		•	•	•	•	•	•	•	•	•	

Operation Features

"User-oriented operationality" by highspeed and smooth display

High-speed accelerator and algorithm ensure stress-free operation.

Free switch layout with analog resistive switches

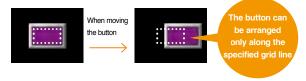
Analog resistive switch

Analog resistive switches are used for MONITOUCH. Freer switch layout facilitates screen designing while more intensive operation display can be produced.



Matrix resistive switch

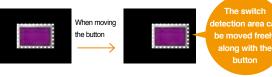
Switches are detected by block.





Analog resistive switch

Switches are detected by dot.



*The area outside the dotted lines is not detected

Slider switch

Slider switches enable data entry without inputting data using the numeral key pad. Values can be modified easily and quickly, even for a fine adjustment.



Scroll bar

Messages and JPEG files out of the display area can be seen by scrolling the area.



*Scrolling direction varies depending on functions

Memo pad function

Analog resistive switches allow you to use MONITOUCH as a memo pad for hand writing. You can draw a picture or write a message on the display for use as a message board at production sites.



High-speed accelerator and algorithm ensure speedy, high-quality displays as well as higher usability in panel operation.

V8 series has drastically improved the processing capacity for drawing, calculation and communication in terms of smooth drawing and quick response.

Speedy drawing

V8 is equipped with a high-speed graphic accelerator, which improves speed for drawing graphics and characters.

High-speed communication

High-speed communication with PLCs is possible. By improving communication efficiency, the cycle speed can be shortened even when linked with more than two PLCs.

Quick response

Switch response speed has been shortened by efficient data processing and task assignment.

Communication Features

Multi-communication using the gateway **function**

Is capable of the connection with up to eight devices by combining Ethernet and serial communication. More advanced and expanded network can be now realized.

Connectable with up to eight different kinds of devices and different manufacturers' PLCs

8-way communication

A combination of Ethernet (eight protocols) and serial communication (three protocols) allows the 8-way communication, which enables connection among a V8 and up to eight kinds of devices consisting of PLCs and peripherals of different manufacturers.

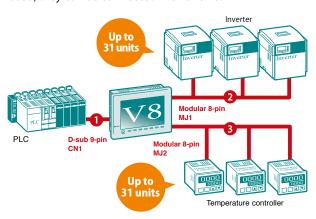
- Simultaneous communication and data transfer with eight kinds of devices
- · Simultaneous monitoring and operation of multiple PLCs and peripherals
- Linkage between a V8 and various devices on the LAN network using the gateway function

Network Examples

Example 1 Serial connection (three ports)

Making a network linked with various automation devices

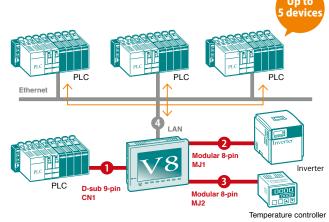
PLCs and peripherals of up to three kinds of units can be connected by serial connection. Even though two or more types of temperature controllers and inverters are used, they can be connected with one V8.



Example 2 Serial connection and Ethernet

Integrated management of up to eight kinds of devices

In addition to conventional connection with temperature controllers and PLCs via 2-way serial communication, connection via Ethernet is possible.

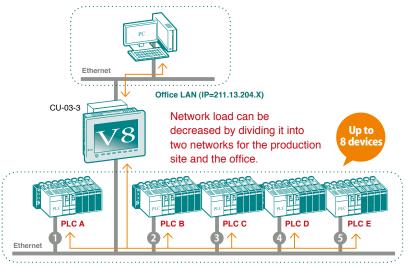


Example 3 Ethernet First in Industry

Used as a gateway for different types of networks

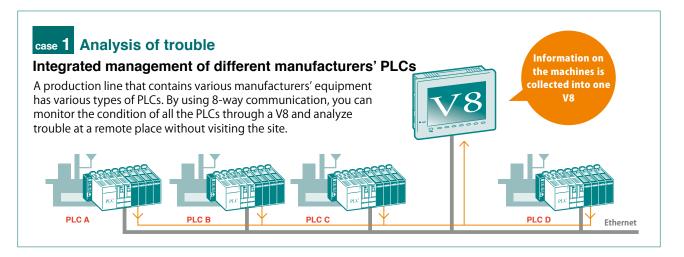
V8 can connect with eight kinds of PLCs via Ethernet. In addition, it can be used as a gateway with another network by adding an Ethernet port using the optional unit (CU-03-3).

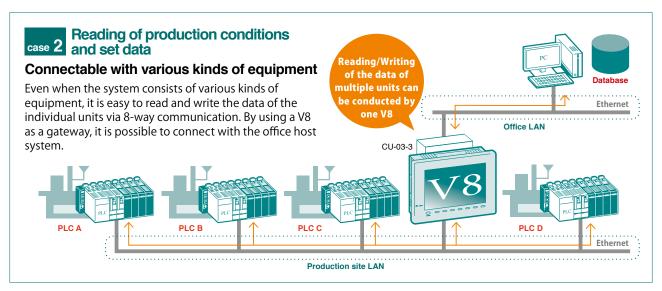
For example, data can be transferred between a production site and the office freely by using a V8. V8 works as the gateway of multiple networks of the production site and the office without increasing data load on the networks.



A variety of ingenious uses

8-way communication offers various functions and boosts your convenience

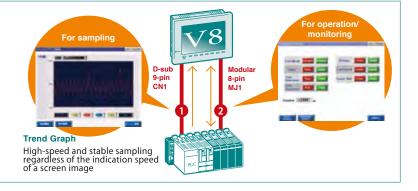






High-speed data sampling

A V8 is connected to a PLC via two communication lines: one for operation/monitoring, and the other for sampling, a setup that enables high-speed and stable sampling.



Product Warranty

Expandability (USB master/slave)

High compatibility with peripherals makes for more user-friendliness

All models are equipped with two types of USB interfaces fitted as standard feature.

High-speed transfer of large-volume data and easy connection to printers

Slave (USB-B)

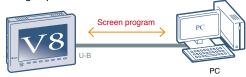
PLC Ladder Program Transfer

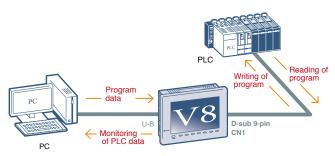
PLC ladder programs can be written or monitored with your PC through the USB port of V8. High-speed ladder transfer is possible.



High-speed Transfer of Screen Program

Large-volume screen program edited by "V-SFT" configuration software can be downloaded and uploaded at high speed.





Compatible with PictBridge Printers

V8 is compatible with PictBridge printers. With PictBridge-compatible printers, production data such as daily and monthly reports can be printed out easily.



Compatible with PC peripherals including a USB keyboard and a USB mouse

Master (USB-A)

Card Reader/Writer

Connection with our "USB-CFREC" or commercial CF card readers/writers increases the versatility.



USB Interfaces Fitted on the Front

Optional interfaces "UA-FR" and "UB-FR" enable USB ports to be fitted on the front of the display for easy access.



Compatible with USB Keyboard

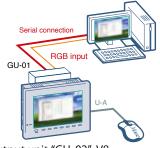
In addition to conventional software keyboards, a USB keyboard can be connected, which facilitates the entry of long product numbers and code numbers.



Compatible with USB Mouse

PC operation

By installing an optional RGB input unit "GU-01", "GU-10" or "GU-11", PC screen can be displayed on V8. You can operate the PC screen using a USB mouse.



Output on Large Displays

By installing the optional RGB output unit "GU-02", V8 screen program can be displayed on a large screen and it can be operated using a USB mouse.

Expandability (CF Card)

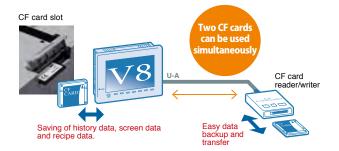
For superior information management

Two-drive system for versatile uses of CF cards

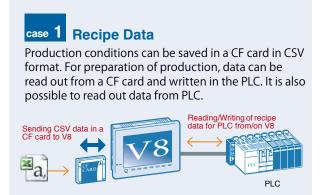
CF card interface and USB reader/writer

Equipped with Two Drives

In addition to the built-in CF card interface, MONITOUCH is equipped with a USB interface for a CF card reader/writer, which can be used simultaneously. Since CF card data can be copied to another card while V8 is being used, the V8 performance will not be inhibited. These functions expand the versatility of MONITOUCH.



Built-in Drive for Constant Use



case 2 Sampling

Production data and alarm history can be sampled and saved. Since the data is saved in CSV format, it can be easily edited in Excel.



PC-friendliness

Compatible with FAT32

FAT has some limitations. For example, a file name cannot exceed eight characters in length, and extensions must be within three characters. FAT32 allows a data file to have a longer file name, which improves compatibility with PCs.

USB Drive for Easy Data Delivery



Because screen data can be saved on a CF card and read into V8 at a production site by means of a CF card reader/writer, there is no need to bring your PC.



case 4 Data Transfer

While using a CF card as a built-in drive, the card data can be copied to another CF card via the USB interface. Sampling data and recipe data can be backed up easily while keeping the CF card in the slot.



Impressive Screen

Screen program capacity can be increased by means of a CF card

A CF card can be used as an extension unit for editing the screen. You can design an impressive screen freely without having to worry about data capacity.

Highly functional switches

Switches with various functions are standardized. No macro or PLC ladder programming is required.

Various switches that meet the individual needs

Multi-output

In order to meet diversified needs, switches with various functions are installed.

Multi-output memory Output up to 16 positions

Switches have a multi-output function. Turning on just one switch makes the other switches turn off. It is also possible to output bit signals up to 16 positions.

For example, when you turn on one switch, the others turn off simultaneously.



Indication depends on the value

In addition to the bit ON/OFF status, it is possible to set various switch conditions according to the value.



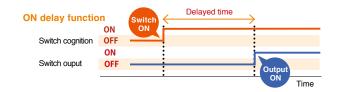






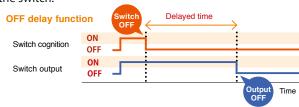
Setting the switch timing freely ON delay

It is possible to set switch functions such as requiring holding down the button for a certain time. This function prevents a false operation of the switch.



Setting the switch timing freely OFF delay

Switch output is retained for a certain time after reset of the switch.

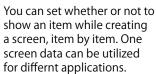


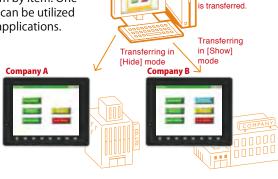
Indication according to individual production sites needs

Screen data with

[Show/Hide] setting

Conditional Visibility Static conditional visibility





Conditional visibility according to the security level

The display can be arranged according to security level. The security level is controlled by passwords. For example, different displays are shown for a maintenance engineer and an operator.



Dyanamic conditional visibility

Whether items are indicated or not is automatically determined according to the memory condition.

Convenient functions to meet users' demands

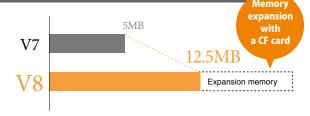
Flash ROM, a large capacity of SRAM and many other functions for more user friendliness

High-capacity memory facilitates screen design

12.5MB*1 Flash ROM

V8 has 12.5MB*1 Flash ROM as standard — twice*2 the capacity of our previous model. In addition, by saving data in a CF card, you can design the screen without caring memory capacity.

*1 SRAM capacity differs depending on the models. See Performance Specifications (P29) for details

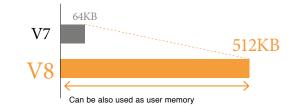


For saving large-volume event history data

512KB^{*1} SRAM as Standard

The built-in SRAM capacity has been expanded to 512KB*1 — eight times larger than that of our previous model. The capacity for backup of sampling data, operation information, alarm information, etc. has been greatly increased to comply with the ISO standard for information management. The large memory capacity enables quick data processing.

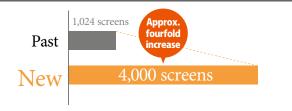
*1 SRAM capacity differs depending on the models. See Performance Specifications (P29) for details



Extended screen number

Enhanced configuration function

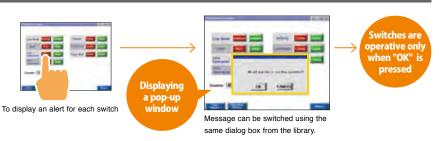
The upper limit of the number of configurable screens is extended to 9,999. Up to 4,000 screens can be stored in a V8. Additionally they can be saved in CF card, which means you do not need to care about screen data capacity.



Easy-to-make pop-up message

Pop-up Window

Pop-up window is standardised. No programming or individual message edit is required for making a dialog such as an alert.



^{*2} Comparison with V7

Enhanced interface led by the most connections in the industry

Alarm enhancement

Both a message and a parameter are loaded and displayed on the screen when any alarm happens. For example, if the water temperature gets more than 100°F, not only "caution" alarm but temperature data like "100°F! Caution" can be displayed on the screen. It is facilitated to analyze causes of failure by more detailed information.

Setting image

Parameter table

A parameter is loaded

and a message that is

corresponding to the

situation is displayed

Up to 8 parameters can be registered and associated with each alarm.

Message editing

Describe a parameter number that is registered when you edit a message. Then the memory that is set in the parameter is loaded and displayed when this message is displayed.



Operation log

Operations such as pushing buttons on the screen and entering numbers are recorded in chronological order. By combining it with the password function, you can view "Who, When, What, & How" history to analyze causes of failure.



Operation history is saved as a binary file. You do not have to be worried about falsification of

Timing to save
When turning on power
During the transfer time of screen data or I/F driver
When switching between RUN screen and Main Menu screen
When switching screens
When switching languages
When pushing on the switch
When changing Number display/String display depending upon input modes
When clearing SRAM data and save a new log

*Tabla Data Display is not supported.

By easy installation of checking "registration of operation log viewer", all functions of the viewer can be used.





[2] By using a cursor to select, the information of the selected operation log is displayed on the screen.



[3] Setting such as Display/Hide of items and number of characters can be customized as you like.

CSV conversion

The binary file of operation history which was saved in a CF card can be converted to a CSV file by using a dedicated tool.



Multi-link 2 Ethernet function

Conditional visibility of trend sampling data

You can select a waveform of trend sampling and display/hide it.



Screen sharing is achieved as the waveform that is appropriate for the machine specifications can be selected.

Supporting portrait orientation

You can edit V806 series screen as a longitudinal type image.





This function is the most appropriate for the machine without enough horizontal spaces.

Note) Not available with monochrome type.

Function security

Security levels from 0 to 15 can be set per screen. By setting function limit appropriate for each user, highly secured environment can be established.





input screen is autom<u>atically</u>



Screen 5 (Level 5)

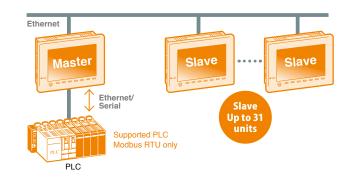
Interlock of the switch

Security levels can be set in the switches as well.

Only those who login with an appropriate levels can use the switches.

Multi-link 2 via Ethernet

Multi-link 2 connection via Ethernet is supported. When connecting multiple V8s to one PLC, much faster transferring can be achieved comparing to existing multi-link.



Added macros

Mathematics/trigonometric function macros

Commands regarding to trigonometric function such as sine (SIN), cosine (COS) and tangent (TAN), absolute value and sign inversion are added.

CF card (sampling) macros

You can save a sampling data of buffering area in any file name as a CSV file.

Control statement macros

"IF \sim ELSE" statement is supported. You can write shortly and easily condition comparison macros.

CF card (hard copy) macros

You can save an image on the screen in any file name.

Configuration Software [V-SFT]

New V-SFT for easy screen configuration

Multiple windows provides immediate access to all application data.

Overall View of All the Devices

Project View (11)

- System tree diagrams show the configuration of files and screens in the entire system.
- Easy viewing and modification of the contents and configuration of each block.





Quick Debugging on Your PC

Emulation function for Easy Debugging

With the emulator of V-SFT Ver.5, data debugging is possible on your PC without V8 or PLC.



Quick Arrangement with Component Parts

Parts View (2)

- Various parts are listed for each item.
- Select a part, and drag & drop it on the configuration window.



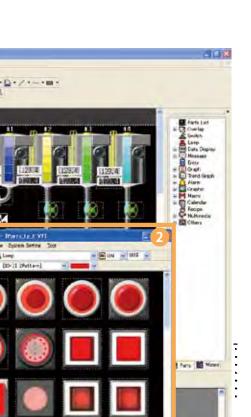
■ V-SFT Requirements

PC	PC/AT compatible machine with Windows
OS	Windows 98/ Me/ NT Version 4.0/ 2000/ XP/ XP 64 edition/ Vista 32bit*
CPU	Pentium III 800 MHz or higher (Pentium IV 2.0 GHz or higher is recommended.)
Memory	512 MB or more
Hard disk	For installation: 850 MB or more available space
CD-ROM Disk drive	24 times or faster
Display	Resolution of 1,024 × 800 (XGA) or higher
Color indication	High color (16 bit) or higher





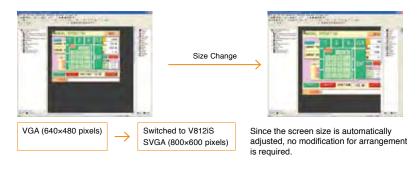




Easy and Speedy Display Configuration

Auto Size Change -

When using screen data from a panel with different screen resolution, screen size is automatically adjusted to your selected model.



Convenient Item View (3)

Direct editing

Memory condition, coordinates, switch names can be entered in the item view.

Memory address, position, and text can be directly entered in the item list.







Coordinate items view

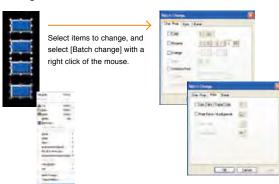
384 · 1 / Z 100%

Utilize [Display setting] in the item list to minimize or maximize item properties in the windows. This system facilitates efficient management of information.

Enhanced Batch Change Functions -

Additional items for batch change

More items can be changed simultaneously by batch change.

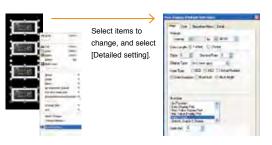


Batch change with the item view (4)

Multiple items can be selected to change the setting simultaneously on the item view window.

<Available items>

Switches, lamps, values, characters, messages, bar/circle graphs, panel meters, closed-area/statistical graphs



Component Parts

"Component Parts" facilitate screen configuration.

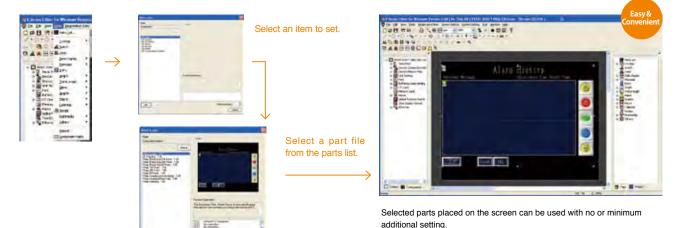
Convenient tool assists you in creating functional screens instantly.

Quick screen configuration using integrated "Component Parts"

Component Parts

First in Industry

In "Component Parts," various functions and macros have been arranged according to purpose. You can create a functional screen instantly by simply selecting a "Component Parts" from the parts list and placing it on the screen.



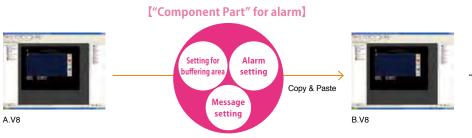
Point 1 Easy Screen Configuration

You can create multifunctional screens using integrated "Component Parts." When arranging on a screen that contains other messages or setting windows, a "Component Part" can be used regardless of overlapping of settings or windows.



Point 2 Easy Utilization of Resource

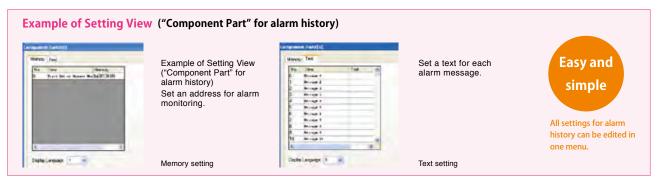
"Component Parts" contain all necessary settings for operation, so they don't need any additional settings when used on other displays. They can be reused simply by copying and pasting.



"Component Parts" can be used on other displays simply by copying and pasting, since all settings are collectively copied.

Point 3 Simple Setting View

After placing "Component Parts," they can be easily used simply by setting addresses and texts.



Point 4 Batch Change of Addresses/Texts

When the same address or text is used for multiple screens, all the settings can be changed simultaneously on the setting view simply by registering it in the address/text table of a "Component Part."



Point 5 Authorization by Passwords

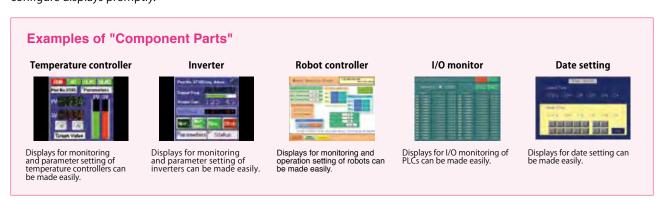
Setting a password for a "Component Part" prevents the settings for the part from being changed by unauthorized persons. Customers can use a "Component Part" without having to worry about tampering of the setting.



No worry about tampering

Point 6 Various "Component Parts"

"Component Parts" with various functions are available. They can be selected from the parts list according to your purpose to configure displays promptly.



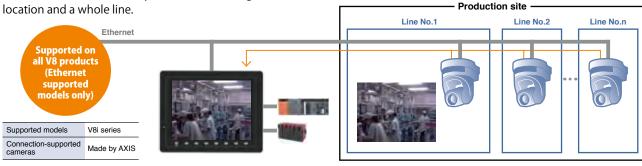
Ethernet expansion

Advanced feature based on Ethernet

Efficient line monitoring by network cameras

Network camera

Displays images from cameras connected to Ethernet on a V8 screen. You can efficiently achieve monitoring of a remote



Cameras that support spinning and zooming functions can receive a command from MONITOUCH.

[1] Spinning of a camera (supported cameras only)

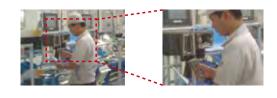
You can change the direction of a network camera from a

remote location.

[2] Zooming of a camera (supported cameras only)

You can zoom in and out an image from a remote location.

Ethernet



Application software that connects your office with your production site at low cost.

TELLUS and V-Server

"Ability of Factory" is enhanced by the remote function and the data collection function.

In the environment with a V-Server installed PC, you can monitor and control your production site from a remote location, even if you are in a foreign country.

[TELLUS and V-Server]

Features such as data collection and data management functions are available for collecting information on the production site in real time to manage it with Excel/CSV files. Additionally, you can monitor and control TELLUS-HMI and MONITOUCH from a remote



(Example)Industrial PC

Expanded possibilities by working together with Windows applications.

Working with VB programs

By creating VB programs using TELLUS access function, you can access TELLUS. Complicated arithmetic processing are done by VB programs and the result is displayed on TELLUS.

Working with optional units

It can be smoothly connected to a Windows printer. You can easily print out daily reports, monthly reports, information on lines and machines operation. Additionally, you can use high-capacity storage and memory.

Working with database

By using TELLUS and V-Server, you can work together with database such as SQL Sever. Tabulation of production achievement and storing of data on the number of defected products and causes of failure can easily be done.

Working with MONITOUCH

You can monitor multiple MONITOUCH installed on the machines from a remote location. And you can also collect production data and change machine settings by the recipe function.

Ethernet expansion

Use Remote Desktop to make use of Windows applications

Enhanced maintenance capacity led by Windows applications

Remote Desktop

By connecting to Ethernet, the server PC's screen is displayed on the V8 screen. At a production site where no PC can be set, you can operate the functions of PC from V8.

Supported models V815iX,V812iS,V810iS,V810iT,V808iS,V810iC, V808iC,V808iC,V808iCH,V806iT,V806iC

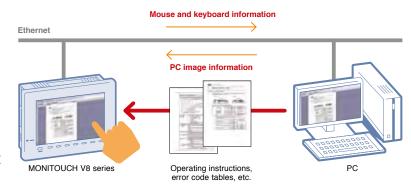
Ethernet **By Ethernet** Remote control connection, no optional unit is needed. Remote Desktop can be used easily at low cost MONITOUCH

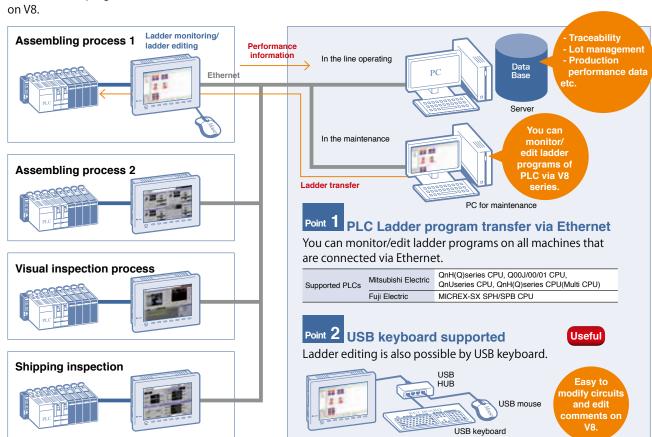
Viewing operating Application 1 instructions and manuals

By remote-controlling a PC connected via Ethernet from a V8 series, you can view operating instructions and manuals stored on the PC.

Ladder monitoring/ Application 2 ladder editing

By starting a ladder software installed in the PC that is connected via Ethernet and activating the ladder transfer function, you can monitor/ edit the ladder program of the connected PLC





Product Warranty (

MES*

Supporting the construction of advanced MES

V8 networking promotes the integration of sales, production management and manufacturing at low cost.

Reinforcing your production management through connection to the database

MES* interface function

Data for production records, defect quantity, error causes and various kinds of information can be sent to the MES database server via V-Server in SQL. Communication with the database is possible without a gateway PC or complicated programming.

No Programming Required

Data can be saved in the database server by simple setting on V-SFT — no programming is required.

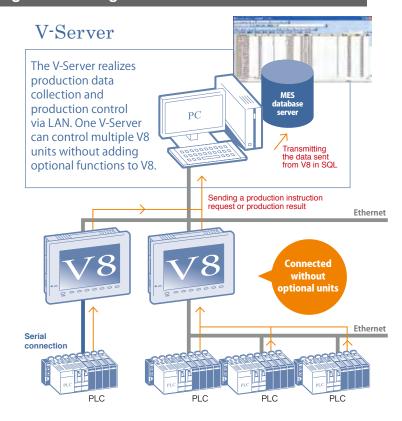
Preventing data loss

All data transffered to the database is saved with the error log so that it is completely secure.

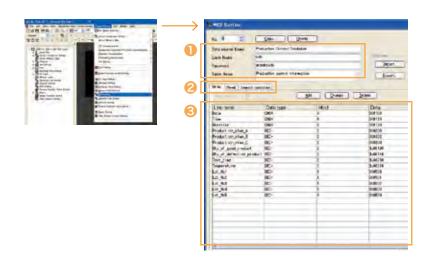
Decreasing system load

Data can be transferred to the database server when conditions are fulfilled. The server does not need to keep monitoring production, so the load on the system can be decreased.

* [MES]: The "Manufacturing Execution System" is for optimizing product quality, product quantity, delivery date, cost, etc. in the management/control of production sites.



Easy MES setting!



You can set PLC register or MONITOUCH internal memory as a data to write to or to load from as well.

[ODBC] Open DataBase Connectivity
Standard specifications of software to access database, which is being advocated by Microsoft.

Setting to access ODBC(1)

Set a data source name, login name and password of the database.

Setting of operation to access the database(2)

Three types (Writing, Loading, and Loading with search criteria) are supported:
 [Writing]
 Set contents to write to the database.
 [Loading]
 Set contents to load from the database.

[Loading with search criteria]
Set this when loading from the database with search criteria.

Setting of items to access ODBC (3)

 Set column names and data format to access the database.

Specifications

High-end specifications open up new possibilities.

		Gene	eral Specification	าร							
		V81	5	V812							
Item	Model	V815iX	V815iXD	V812xS	V812xSD						
	Rated voltage	AC100 ~ 240V	DC24V	AC100 ~ 240V	DC24V						
	Permissible range of voltage	AC100 ~ 240V±10%	DC24V±10%	AC100 ~ 240V±10%	DC24V±10%						
Power supply	Permissible momentary power failure	Within 20ms	Within 1ms	Within 20ms	Within 1ms						
	Demand (maximum rating)	90VA or less	40W or less	70VA or less	30W or less						
	Inrush current	20A,10ms(AC100V) / 40A,10ms(AC200V)	30A,1ms(DC24V)	20A,10ms(AC100V) / 40A,10ms(AC200V)	30A,1ms *3						
Insulation resistance			DC500V 10	OMΩ or more							
	Ambient temperature	0°C ~ +4	10°C *1	0°C ~ +5	50°C *1						
	Storage temperature	-10°C ~ +	-50°C *1	-10°C ~	+60°C						
B	Ambient humidity	85%RH or less(without dew condensation, Max. wet bulb temperature: 39°C or lower) *1									
Physical environment	Resistance to solvent	No attachment of cutting oil or organic solvent									
environment	Atmosphere	Not exposed to corrosive gas or conductive dust									
	Operation altitude	2,000 meter or lower									
	Contamination level *2		vel 2								
Mechanical operating	Resistance to oscillation	Vibration frequency: 10~150	Hz, acceleration: 9.8m/s ² (1.0G)	oulsating width: 0.075mm, X,Y,Z: 3 d	irections 1 hour each way						
conditions	Resistance to shock	Pulse shape:	half-sine, peak acceleration: 147m	n/s ² (15G), X,Y,Z: 3 directions, six time	es each way						
Electric operating	Noise proof	1500Vp-p (pulse width $1\mu\text{s}$, pulse rise time : 1ns)	1000Vp-p (pulse width 1μ s, pulse rise time : 1ns)	1500Vp-p (pulse width 1μ	rs, pulse rise time : 1ns)						
conditions	Static discharge		Complies with IEC61000-4-2, contact: 6kV, air: 8kV								
	Grounding		Grounding resistance : Less	than 100Ω , FG/SG separation							
	Structure			with IP65 (when water-proof gasket ingle unit - Installation method: Pane							
Installation conditions	Cooling system		Natural a	air cooling							
CONUMIONS	Weight	Approx.5.5kg	Approx.5.3kg	Approx	2.9kg						
	Dimensions W×H×D(mm)	382.8×312	2.8×81.1	326.4×259.6×69.0							
	Panel cutout (mm)	369.4×299.4	4(+0.5/-0)	313.0×246.	2(+0.5/-0)						
Case color		_		Gra	ay						
Material		Alumin	nium	PC/A	BS						

*1 Keep wet bulb temperature under 39°C to avoid an accident.
*2 Contamination level is an index that shows the incidence rate of conductive substance. At Level 2, only nonconductive substance is produced, but a temporary conductive state may occur due to dew concentration.
*3 Hardware version: j or later

		Perform	nance Specifica	tions							
Item	Model	V815iX	V815iXD	V812iS	V812S						
	Screen memory	12.5MB									
	Display device	TFT color LCD									
	Resolution W:H(dots)	1024×7	768	800×	600						
	Display size	15 inch	nes	12.1 in	nches						
B	Colors		65,536 colors (without blin	ks) / 32,768 colors (with blinks)							
Display specifications	Backlight		(CCFL							
specifications	Backlight life *5	About 60,00	00 hours	About 50,0	000 hours						
	Backlight Auto OFF		Lit in normal	(Set by the user)							
	Power lamp	Lit in normal condition, blinks in alarm condition such as blowout of backlight bulbs									
	Contrast adjustment	Fixed									
	Brilliance control	3 levels (Adjusted into 128 grades by macro command)									
	1/2-byte	127 columns	× 96 lines	100 columns	100 columns × 75 lines						
Number of characters	1-byte	127 columns	× 48 lines	100 columns	s x 37 lines						
Cilaracters	2-byte	64 columns :	× 48 lines	50 columns	× 37 lines						
Enlargement of characters			X: 1 ~ 8 time	s Y: 1 ~ 8 times							
	Switch resolution	Analog: 1,02	24×1,024	Analog: 1,024×1,024 / Matrix: 50×30	Analog: 1,024×1,024						
Touch switch	Mechanical life		1 million	times or more							
	Surface treatment		Hard coating, I	Non glare finish 5%							
Function switch	Number of function switches		8 s	witches							
	D-Sub 9-pin (CN1)			Data length: 7,8 bits, Parity: even, 6,9200, 38400, 57600, 76800, 115200,18							
External	Modular 8-pin (MJ1/ MJ2)			ous type, Data length : 7,8 bits, Parity 0, 19200, 38400, 57600, 76800, 1152							
interface	CF card interface		Compatible wi	th CompactFlash™							
	Ethernet *4	Complies with IEEE802.3, I	Baud rate: 100Mbps, 10Mbps C	able: 100Ω Unsealed twist pair, Cate	gory 5, Max length: 100m						
	USB		Type A, T	ype B (Ver1.1)							
	Battery		Coin-type lithin	um primary battery							
Clock & Back	Back up memory (SRAM)		5	12KB							
up memory	Back up period		5 years (Ambier	nt temperature 25°C)							
· ·	Calendar accuracy	Gap±90 sec. per month (Ambient temperature 25°C)									

^{* 4} Standard equipment only for V8i series
* 5 When the panel surface luminance drops to 50% of the initial value at normal temperature (25°C)
* 6 Available only when connected with SIEMENS MPI.

Specifications

General Specifications												
			V8	10		V808						
Item	Model	V810xS / V810xT	V810xC	V810xSD / V810xTD	V810xCD	V808xSD	V808xCD					
	Rated voltage	AC100	~ 240V	DC	24V	DC	24V					
	Permissible range of voltage	AC100 ~ 2	240V±10%	DC24	V±10%	DC24\	/±10%					
Power supply	Permissible momentary power failure	Within	20ms	Withi	n 1ms	Within	n 1ms					
	Demand (maximum rating)	70VA or less	60VA or less	25W or less	20W or less	23W or less	20W or less					
		20A,10ms(AC100V) 40A,10ms(AC200V)		30A,1ms (DC24V) *3	20A,1ms (DC24V)	30A,1ms(DC24V) *3	20A,1ms(DC24V)					
Insulation resistance					DC500V 10	MΩ or more						
	Ambient temperature				0°C ~ +	-50°C *1						
	Storage temperature		-10°C ~ +60°C									
Discolaria	Ambient humidity	85%RH or less(without dew condensation, Max. wet bulb temperature: 39□ or lower) *1										
Physical environment	Resistance to solvent	No attachment of cutting oil or organic solvent										
environment	Atmosphere	Not exposed to corrosive gas or conductive dust										
	Operation altitude	2,000 meter or lower										
	Contamination level *2		Level 2									
Mechanical operating	Resistance to oscillation	Vibration	frequency: 10~15	50Hz, acceleration	n: 9.8m/s²(1.0G) p	ulsating width: 0.075mm, X,Y,Z: 3 o	directions 1 hour each way					
conditions	Resistance to shock	Pulse shape: half-sine, peak acceleration: 147m/s²(15G), X,Y,Z: 3 directions, six times each way										
Electric operating	Noise proof			1500V _I	p-p (pulse width 1	µs, pulse rise time : 1ns)						
conditions	Static discharge			Complie	s with IEC61000-	4-2, contact: 6kV, air: 8kV						
	Grounding			Grounding r	esistance : Less t	han 100Ω , FG/SG separation						
Lastallaria	Structure					vith IP65 (when water-proof gasket gle unit						
Installation conditions	Cooling system				Natural a	ir cooling						
Conditions	Weight		Approx	k.2.5kg		Approx	c.1.5kg					
	Dimensions W×H×D(mm)		303.8×23	31.0×69.0		233.0×17	8.0×65.8					
	Panel cutout (mm)		289.0×216	.2(+0.5/-0)		220.5×165	.5(+0.5/-0)					
Case color					Gr	ay						
Material					PC/	ABS						

*1 Keep wet bulb temperature under 39°C to avoid an accident.
*2 Contamination level is an index that shows the incidence rate of conductive substance. At Level 2, only nonconductive substance is produced, but a temporary conductive state may occur due to dew concentration.
*3 Hardware version: j or later.

Performance Specifications												
Item	Model	V810iS	V810S	V810iT	V810T	V810iC	V810C	V808iS	V808S	V808iC	V808C	
	Screen memory			12.5MB			4.5MB		12.5MB		4.5MB	
	Display device					TFT co	lor LCD					
	Resolution W:H(dots)	800>	×600		640	×480		800	×600	640>	<480	
	Display size			10.4 i	nches			8.4 inches				
- ·	Colors			6	55,536 colors	(without blinks) / 32,768 cold	ors (with blinks	s)			
Display specifications	Backlight					CC	FL					
specifications	Backlight life *5	About 50,000 hours										
	Backlight Auto OFF	Lit in normal (Set by the user)										
	Power lamp	Lit in normal condition, blinks in alarm condition such as blowout of backlight bulbs										
	Contrast adjustment	Fixed										
	Brilliance control	3 levels (Adjusted into 128 grades by macro command)										
Niversia au af	1/2-byte	100 column	s × 75 lines		80 column	s × 60 lines	100 columns × 75 lines 80 col		80 columns	s × 60 lines		
Number of characters	1-byte	100 column	s × 37 lines		80 column	s × 30 lines		100 columns × 37 lines 80 columns		s × 30 lines		
onaraotoro	2-byte	50 columns	s × 37 lines		40 columns × 30 lines				50 columns × 37 lines 40 columns		s × 30 lines	
Enlargement of characters					:	X: 1 ~ 8 times	Y: 1 ~ 8 time	S				
	Switch resolution	Analog: 1,	024×1,024	Ana	log: 1,024×1,0	024 / Matrix: 40)×24		Analog: 1,	024×1,024		
Touch switch	Mechanical life					1 million tim	nes or more					
	Surface treatment				Ha	ard coating, No	n glare finish	5%				
Function switch	Number of function switches					8 swi	tches					
	D-Sub 9-pin (CN1) *6		RS-232C, RS-422/485, Asynchronous type, Data length : 7,8 bits, Parity : even, odd, none, Stop bit : 1,2 bits, Baud rate : 4800, 9600, 19200, 38400, 57600, 76800, 115200,187500 ¹⁶ bps									
External	Modular 8-pin (MJ1/ MJ2)	RS-232C, RS-422/485 (two-wire system), Asynchronous type, Data length: 7,8 bits, Parity: even, odd, none, Stop bit: 1,2 bits, Baud rate: 4800, 9600, 19200, 38400, 57600, 76800, 115200 bps										
interface	CF card interface				Co	ompatible with	CompactFlas	h™				
	Ethernet *4		Complies with	IEEE802.3 Ba	aud rate: 100Mb	ops, 10Mbps, Ca	ble: 100Ω Unse	ealed twist pair,	Category 5, Ma	x length: 100m		
	USB					Type A, Typ	e B (Ver1.1)					
	Battery				C	oin-type lithium	primary batte	ery				
Clock & Back	Back up memory (SRAM)			512KB			128KB		512KB		128KB	
up memory	Back up period				5 y	ears (Ambient	temperature 2	5°C)				
	Calendar accuracy				Gap±90 se	c. per month (A	mbient tempe	rature 25°C)				

* 4 Standard equipment only for V8i series
* 5 When the panel surface luminance drops to 50% of the initial value at normal temperature (25°C)
* 6 Available only when connected with SIEMENS MPI.

		General Specification	s						
14	Madel	V806	V808CH						
Item	Model		V808iCHx V808CHx						
	Rated voltage	DC2	4V						
	Permissible range of voltage	DC24V	±10%						
Power supply	Permissible momentary power failure	Within	1ms						
	Demand (maximum rating)	15W or less	10W or less						
	Inrush current	17A,2ms(DC24V)	15A,1.5ms(DC24V)						
nsulation resistance		DC500V 101	MΩ or more						
	Ambient temperature	0°C ~ +50°C *1	0°C ~ +40°C *1						
	Storage temperature	-10°C ~ +60°C ⁴1							
Na	Ambient humidity	85%RH or less(without dew condensation, Max. wet bulb temperature: 39°C or lower) *1							
hysical nvironment	Resistance to solvent	No attachment of cutting oil or organic solvent							
	Atmosphere	Not exposed to corrosive gas or conductive dust							
	Operation altitude	2,000 meter or lower							
	Contamination level *2	Level 2							
lechanical operating	Resistance to oscillation	Vibration frequency: 10~150Hz, acceleration: 9.8m/s²(1.0G) pu							
onditions	Resistance to shock	Pulse shape: half-sine, peak acceleration: 147m/	s ² (15G), X,Y,Z: 3 directions, six times each way						
	Noise proof	1500Vp-p (pulse width 1 μ s, pulse rise time : 1ns)	1000Vp-p (pulse width 1μ s, pulse rise time : 1ns)						
onditions	Static discharge	Complies with IEC61000-4	-2, contact: 6kV, air: 8kV						
	Grounding	Grounding resistance : Less th	an 100Ω, FG/SG separation						
	Structure	Protect structure: Front panel: Compatible with IP65 (when water-proof gasket is used.) Rear cover: Compatible with IP20 Form: Single unit Installation method: Panel mounting	IP65-compliant (when I/F cover, CF cover and LAN cover are used)						
nstallation onditions	Cooling system	Natural ai	r cooling						
onunions	Weight	Approx.740g	Approx.1.2kg						
	Dimensions W×H×D(mm)	182.5×138.8×50.8	259.0×232.0×55.0 (Excluding the emergency stop switch)						
	Panel cutout (mm)	174×131(+0.5/-0)							
Case color		Gray	Black						
Material		PC/A	BS						

*1 Keep wet bulb temperature under 39°C to avoid an accident.
*2 Contamination level is an index that shows the incidence rate of conductive substance. At Level 2, only nonconductive substance is produced, but a temporary conductive state may occur due to dew concentration.

	Performance Specifications										
Item	Model	V806iT	V806T	V806iC	V806C	V806iM	V806M	V808iCHx	V808CHx		
	Screen memory			4.5	MB			12.5MB	4.5MB		
	Display device	TFT color LCD STN color LCD STN monochrome LCD						TFT cold	or LCD		
	Resolution W:H(dots)			320	×240			640×	480		
	Display size			5.7 ir	nches			7.5 inc	ches		
	Colors	65,536 colors	(without blinks) / 32,768 color	rs (with blinks)	16 grayscale	(with blinks)	65,536 colors (without blinks)	/ 32,768 colors (with blinks)		
Display	Backlight					CC	FL				
specifications	Backlight life *4	About 50,	000 hours	About 75,	000 hours	About 58,	000 hours	About 50,0	00 hours		
	Backlight Auto OFF				L	it in normal (S	Set by the use	er)			
	Power lamp			Lit in normal	condition, blink	s in alarm co	ndition such a	as blowout of backlight bulbs			
	Contrast adjustment	Fix	ed	Adjusta	able (Function s	witch or macro	switch)	Fixe	ed		
	Brilliance control	3 levels (Adjusted into 128 grades by macro command)						xed			
	1/2-byte			40 columns	80 columns × 60 lines						
Number of characters	1-byte			40 columns	80 columns	× 30 lines					
Cilaracters	2-byte	20 columns × 15 lines						40 columns	× 30 lines		
Enlargement of characters					×	: 1 ~ 8 times	Y: 1 ~ 8 time	es			
	Switch resolution	Analog: 1,024×1,024									
Touch switch	Mechanical life		1 million times or more								
	Surface treatment				Ha	rd coating, No	n glare finish	5%			
Function switch	Number of function switches			6 swi	tches			12 switches (4 switch	es: external output)		
	D-Sub 9-pin (CN1) *6 TB3 for V808iCHx/ V808CHx		Parity	vo-wire system), v: even, odd, no 9600, 19200, 3	ne, Stop bit : 1,	RS-232C, Asynchronous type, Data length : 7,8 bits, Parity : even, odd, none, Stop bit : 1,2 bits, Baud rate : 4800, 9600, 19200, 38400, 57600, 76800, 115200 bps					
External interface	Modular 8-pin (MJ1/ MJ2) TB2 for V808iCHx/ V808CHx		Parity	2/485, Asynchro : even, odd, no 0, 19200, 38400	ne, Stop bit : 1,	2 bits,		RS-422/485, Asynchronous type, Data length: 7,8 bits, Parity: even, odd, none, Stop bit: 1,2 bits, Baud rate: 4800, 9600, 19200, 38400, 57600, 76800, 115200,187500 ⁷⁵ bps			
	CF card interface			Optional u	ınit DU-10			Compatible with 0	CompactFlash™		
	Ethernet *3	C		h IEEE802.3 E sealed twist pai			n	Complies with IEEE802.3	Not available		
	USB			Type A, Typ	e B (Ver1.1)			Type B (Ver1.1)		
	Battery				Co	oin-type lithium	primary batt	ery			
Clock & Back	Back up memory (SRAM)	512KB	128KB	512KB	128KB	512KB	128KB	512KB	128KB		
up memory	Back up period				5 ye	ears (Ambient	temperature 2	25°C)			
	Calendar accuracy				Gap±90 sec	. per month (A	mbient tempe	erature 25°C)			

*3 Standard equipment only for V8i series
*4 When the panel surface luminance drops to 50% of the initial value at normal temperature (25°C)
*5 Available only when connected with SIEMENS MPI.

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Display/ peration eatures

nmunication Features

Expandability

onfiguration tware (V-SFT)

ith MES/

and Specifications

System Dir

Option

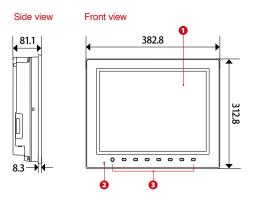
rice Option List

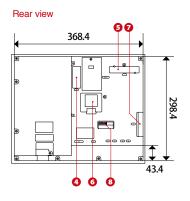
ct Warranty Custome

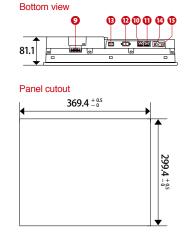
Dimensions and Part Names

Provided with plentiful kinds of interfaces

V815iX / V815iXD





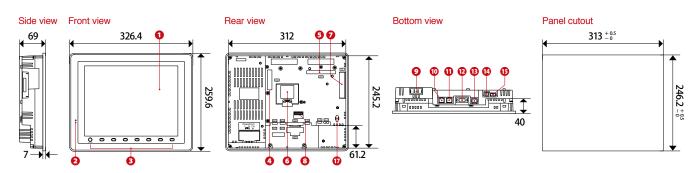


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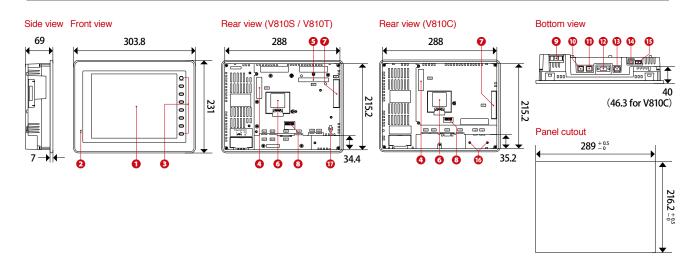
(mm)

(mm)

V812iS / V812S

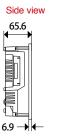


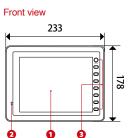
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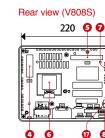


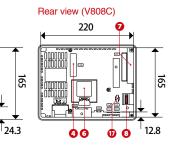
V808iS / V808S / V808iC / V808C

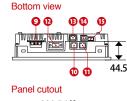
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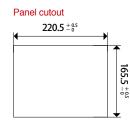






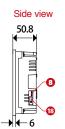


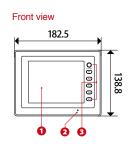


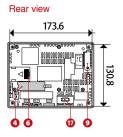


(mm)

V806iT / V806T / V806iC / V806C / V806iM / V806M

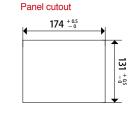






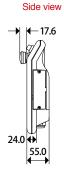


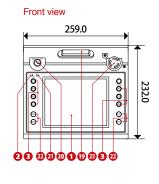
Bottom view

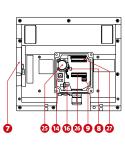


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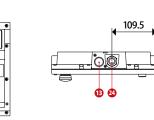
V808iCH / V808CH



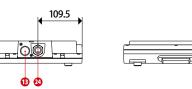




Rear view



Bottom view



Part Names

- Display
- 2 Power lamp
- § Function switch
- 4 Connector for communication unit (CN5)
- S Connector for optional unit (CN7)
- 6 Battery holder
- OF card slot (CF)

- 3 DIP switch
- Power supply(TB1)
- Modular 8-pin for serial port (MJ1)
- Modular 8-pin for serial port (MJ2)
- D-Sub 9-pin for serial port (CN1)
- 100BASE-TX/10BASE-T port (LAN)USB-B (slave)
- USB-A (master)
- Screw hole
- for fixing USB cable lock
- Inlet port for fixing USB cable
- ® Slide switch
- Deadman switch
- Key switch

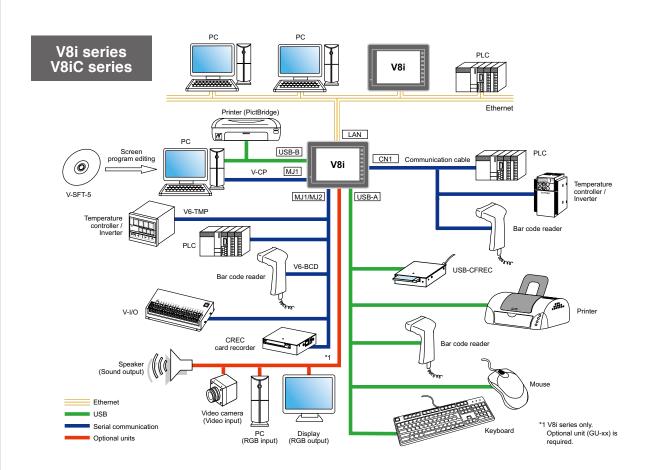
- @OPERATION lamp
- External output switch

Top view

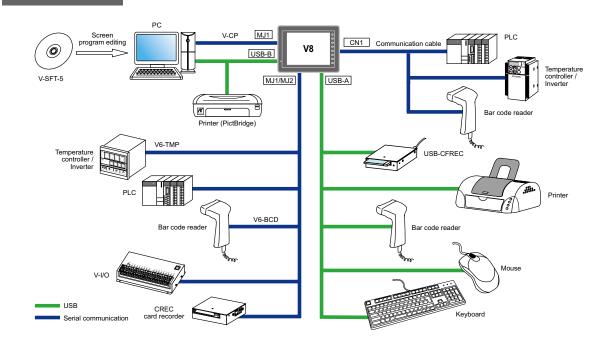
- BEmergency stop switch
- Battery
- Terminal block (TB2)
- Terminal block (TB3)

System Configuration

Flexible system configuration meets diversified requirements



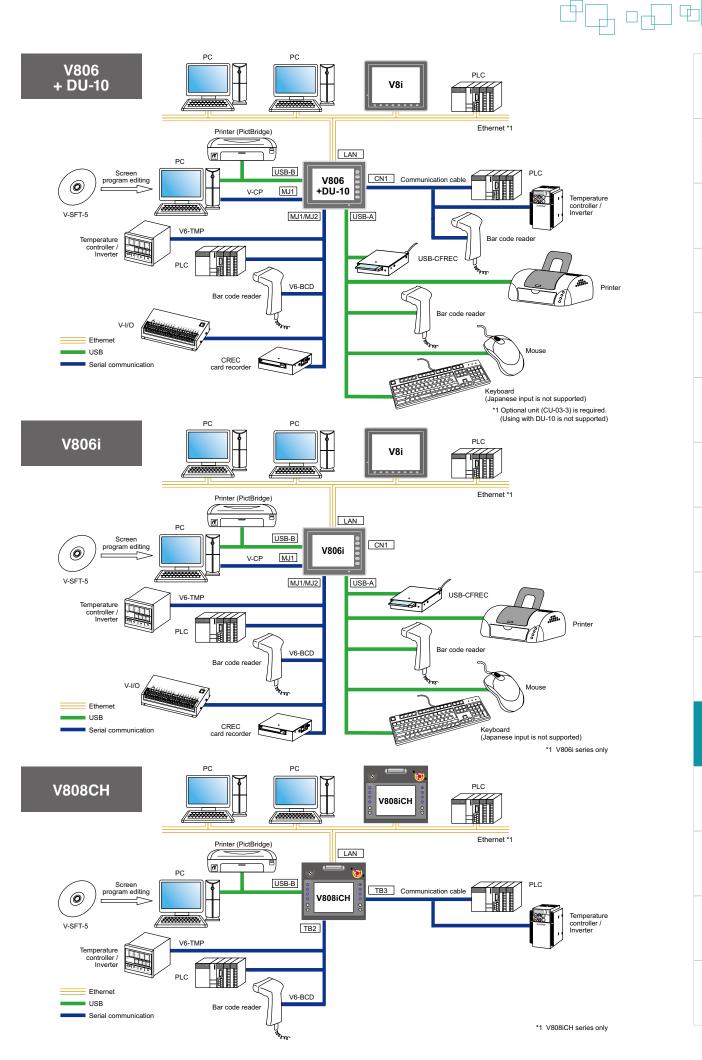
V8 series V8C series





Display/ Operation Features

Communication Features



Option Units

Optional units that expand V8's performance

Various units for greater expandability and usability

Expansion/ Communication Units

Expansion units

GU-00(Video input + sound output unit)

Displays images from a video camera on V8 and outputs sound files through external speakers.

GU-01(RGB input + sound output unit)

Displays PC images on V8 and outputs sound files through external speakers.

GU-02(RGB output + sound output unit)

Displays images of V8 on PC display and outputs sound files through external speakers.

GU-03(Sound output unit)

Outputs sound files through external speakers.

GU-10(Video input(2ch) + RGB input)

Displays images from video cameras and PC images on V8 simultaneously.

GU-11(RGB input(2ch))

Displays RGB images such as PC images through two channels on V8 simultaneously.

DU-10(V806)

Compatible with a D-Sub9-pin/CF card.

Communication units



XX	Compatible network	XX	Compatible network
00	OPCN-1	04	PROFIBUS-DP
01	T-Link	06	SX bus
02	CC-Link	07	DeviceNet *1
03-3	Ethernet	08	FL-net

Connected to various networks. Multiple V8 panels can be connected to one PLC. Other devices can be linked to the network, improving system's cost-effectiveness.

Optional units



USB-CFREC (USB ports for CF card recorder)

Used for recording or reading data onto or from a CF card. Fitted on the front of the panel.



TC-D9 (Terminal converter)

Connects V8 with other units via RS-422/485 terminal.



CREC (Card recorder)

Used for recording data onto a card for back-up. Also used for recording data by memory manager or data logging functions.



V-MDD (ACPU/QnACPU/FXCPU dual port interface)

Used to double the port of the connector for programmer units. Useful when connecting to ACPU/QnACPU/FXCPU(MITSUBISHI) directly.

Application Software

Configuration software

V-SFT-5(Ver.5)

For Windows98/Me/NT Version4.0/2000/ XP/XP 64 Edition/Vista 32bit



Cables

Туре	Configuration	Connected to
V-CP	RS-232C Modular 8-pin D-Sub 9-pin Length: 3 m	PC
V6-BCD	RS-232C Modular 8-pin	Bar code reader
V6-MLT	RS-422 Modular 8-pin	MONITOUCH V8/V7/V6 series
V6-TMP	RS-232C/485 Modular 8-pin Length: 3, 5 or 10 m	Temperature controller and inverter etc.
UA-FR	Length: 1 m	USB-CFREC Card reader/ writer
UB-FR	(a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	PC PictBridge Printer



V7-BT (Battery)

Lithium battery for V8 series



V8xx-GS/V8xx-GSN10

Protection sheet for panels: 5 sheets per set. N10 is a non-glare type sheet. See P37 for details.



V8xxx-FL

Backlight for V8 See P37 for details.



Panel Adapter

Used when fitting V8 into V4/GD-80/GD-65/GD-64 panel cutout.

Option List

Optional units that expand V8's performance

	Description			Model																		
Model		V815	V812		V810				io				V8	V808					V806			
Configuration softwar		iX	iS	S	iS	S	iT	T	iC	С	iS	S	iC	С	iCH	СН	iT	Т	iC	С	iM	М
V-SFT-5	Configuration software for V series (CD+Japanese manual set) ver.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
V-SFT-5(CD)	Configuration software for V series (Installation CD) ver.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Communication units		=																				
CU-00	OPCN-1	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0
CU-01	T-Link	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0
CU-02 CU-03-3	CC-Link Ethernet	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0
CU-04	PROFIBUS-DP	-	0	-	0	0	0	0	0	0	$\frac{\circ}{\circ}$	0	0	0			0	0	0	0	0	0
CU-06	SX Bus	ŏ	ŏ	ŏ	ŏ	ō	ŏ	ŏ	<u> </u>	ŏ	ŏ	<u> </u>	<u> </u>	ŏ			ŏ	ŏ	ŏ	ŏ	ŏ	ō
CU-08	FL-net Ver.2(OPCN-2)	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0
Optional units																						
GU-00	VIDEO 4ch input, audio output	0	0		0		0				0											
GU-01	RGB 1ch input, audio output	0	0		0		0				0											
GU-02	RGB 1ch output, audio output	0	0		0		0				0											
GU-03 GU-10	audio output VIDEO 2ch input, RGB 1ch input	0	0		0		0	-			0										-	
GU-11	RGB 2ch input	-	-		0		0				$\stackrel{\circ}{\neg}$										_	_
DU-10	Optional unit dedicated to V806 (Dsub9+CF card)	$\overline{}$					$\overline{}$				$\overline{}$						0	0	0	0	0	0
Cable	,																					
V-CP	Screen program transfer cable (3M)	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0
UA-FR	USB-A panel surface fixing cable (1M)	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0
UB-FR	USB-B panel surface fixing cable (1M)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
V6-MLT	Multi-link 2 master cable (3M)	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0
V6-TMP	Temperature controller connecting cable (3M)	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0
MJ-D25 MJ2-PLC	MJ-Dsub25 conversion cable MJ-Dsub25 conversion cable for V806 and V706	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0
D9-MB-CPUQ	Mitsubishi Electric A series/QnA series CPU RS-422 (2,3,5,10,15M)	0	0	0	0	0	0	0	0	0	0	0	0	0			0"	0"	0"	0"	0	0,
D9-QCPU2	Mitsubishi Electric Q series CPU RS-232C(2,3,5,10,15M)	-	0	-	0	0	0	0	0	0	$\frac{\circ}{\circ}$	0	0	-			0"	0"	0"	0"	0"	0,
D9-MI2-09	Mitsubishi Electric link unit RS-232C(2,3,5,10,15M)	ŏ	ŏ	ŏ	ō	0	ŏ	ŏ	0	ŏ	-	<u> </u>	0	ŏ			0"	0"	0"	0"	0"	0,
D9-MI4-FX	Mitsubishi Electric FX series CPU RS-422(2,3,5,10,15M)	0	0	0	0	0	0	0	0	0	0	0	0	0			0"	0"	0"	0"	0"	0,
D9-FU-SPHCPU	Fuji Electric SPH CPU RS-485(4-wire) (2,3,5M)	0	0	0	0	0	0	0	0	0	0	0	0	0			0"1	0"	0"	0"	0"	0"
D9-FU-SPBCPU	Fuji Electric SPB CPU RS-485(4-wire) (2,3,5M)	0	0	0	0	0	0	0	0	0	0	0	0	0			0"	0"	0"	0"	0"	0"
V706-ACPU	Mitsubishi Electric A series/QnA series CPU RS-422(2,3,5,10,15M)																O*2	0,5	O*2	O*2	O*2	0"
MJ2-MI4FX	Mitsubishi Electric FX series CPU RS-422(2,3,5M)																0	0	0	0	0	0
MJ2-FU-SPHCPU	Fuji Electric SPH CPU RS-485(4-wire) (2,3,5M)																0	0	0	0	0	0
MJ2-FU-SPBHCPU V8H-C	Fuji Electric SPB CPU RS-485(4-wire) (2,3,5M)	_					_	_							-	0	0	0	0	0	0	0
D9-D25	External connection cable for V808CH (3,5,15,20M) Dsub9-Dsub25 conversion cable (0.3M)	0	0	0	0	0	0	0	0	0	0	0	0	0			0"	0"	0"	0"	0"	0,
Communication termi	, ,																					
TC-D9	Terminal converter for V8	0	0	0	0	0	0	0	0	0	0	0	0	0			0"	0"	0"	0"	0"	0"
Card recorder																				•	-	
USB-CFREC	USB CF card recorder	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0
Dual port interface																						
V-MDD	Mitsubishi ACPU/QnACPU/FXCPU port interface	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
I/O unit	E	-	_	_	_	-	_	_	-	_		_								_	-	
V-I/O Battery	Expanded serial I/O unit	0	0	0	0	0	0	0	0	0		0	0	0				_	_		0	0
																	0	0	0	0		
	Rattery for VR V7 and V606e							0				\cap	0	0								
V7-BT Switch guard cover	Battery for V8, V7 and V606e	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
V7-BT	Battery for V8, V7 and V606e Switch guard	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						0
V7-BT Switch guard cover		0	0	0	0	0	0	0	0	0	0	0	0	0								0
V7-BT Switch guard cover V8H-SWG		0	0	0	0	0	0	0	0	0	0	0	0	0								0
V7-BT Switch guard cover V8H-SWG Wall-hanging clasp V6H-WF V6H-WF1	Switch guard Wall-hanging clasp set (For V808CH/V608CH) Wall-hanging bracket (wall side) (For V808CH/V608CH)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						0
V7-BT Switch guard cover V8H-SWG Wall-hanging clasp V6H-WF V6H-WF1 V8H-WFV	Switch guard Wall-hanging clasp set (For V808CH/V608CH)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						0
V7-BT Switch guard cover V8H-SWG Wall-hanging clasp V6H-WF V6H-WF1 V8H-WFV Protection sheet	Switch guard Wall-hanging clasp set (For V808CH/V608CH) Wall-hanging bracket (wall side) (For V808CH/V608CH) Fitting for V808CH (VESA-compliant)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
V7-BT Switch guard cover V8H-SWG Wall-hanging clasp V6H-WF V6H-WF1 V8H-WFV Protection sheet V806-GS	Switch guard Wall-hanging clasp set (For V808CH/V608CH) Wall-hanging bracket (wall side) (For V808CH/V608CH) Fitting for V808CH (VESA-compliant) Surface protection sheet for V806	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
V7-BT Switch guard cover V8H-SWG Wall-hanging clasp V6H-WF V6H-WF1 V8H-WFV Protection sheet V806-GS V806-GSN10	Switch guard Wall-hanging clasp set (For V808CH/V608CH) Wall-hanging bracket (wall side) (For V808CH/V608CH) Fitting for V808CH (VESA-compliant) Surface protection sheet for V806 Surface protection sheet for V806 (nonglare)	0	0	0	0	0	0	0	0	0					0	0	0	0	0	0	0	
V7-BT Switch guard cover V8H-SWG Wall-hanging clasp V6H-WF V6H-WF1 V8H-WFV Protection sheet V806-GS V806-GSN10 V808-GS	Switch guard Wall-hanging clasp set (For V808CH/V608CH) Wall-hanging bracket (wall side) (For V808CH/V608CH) Fitting for V808CH (VESA-compliant) Surface protection sheet for V806 Surface protection sheet for V806 (nonglare) Surface protection sheet for V808	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
V7-BT Switch guard cover V8H-SWG Wall-hanging clasp V6H-WF V6H-WF1 V8H-WFV Protection sheet V806-GS V806-GSN10	Switch guard Wall-hanging clasp set (For V808CH/V608CH) Wall-hanging bracket (wall side) (For V808CH/V608CH) Fitting for V808CH (VESA-compliant) Surface protection sheet for V806 Surface protection sheet for V806 (nonglare)	0	0	0		0	0								0	0	0	0	0	0	0	0
V7-BT Switch guard cover V8H-SWG Wall-hanging clasp V6H-WF V6H-WF1 V8H-WFV Protection sheet V806-GS V806-GSN10 V808-GS V808-GSN10	Switch guard Wall-hanging clasp set (For V808CH/V608CH) Wall-hanging bracket (wall side) (For V808CH/V608CH) Fitting for V808CH (VESA-compliant) Surface protection sheet for V806 Surface protection sheet for V806 (nonglare) Surface protection sheet for V808 Surface protection sheet for V808 (nonglare)	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
V7-BT Switch guard cover V8H-SWG W8H-SMG W8H-NF1 V8H-WF1 V8H-WFV Protection sheet V806-GS V806-GSN10 V808-GSN10 V808-GSN10 V810-GS	Switch guard Wall-hanging clasp set (For V808CH/V608CH) Wall-hanging bracket (wall side) (For V808CH/V608CH) Fitting for V808CH (VESA-compliant) Surface protection sheet for V806 Surface protection sheet for V806 (nonglare) Surface protection sheet for V808 (nonglare) Surface protection sheet for V808 (nonglare)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
V7-BT Switch guard cover V8H-SWG Wall-hanging clasp V6H-WF V6H-WF1 V8H-WFV Protection sheet V806-GS V806-GSN10 V808-GS V808-GSN10 V810-GS V810-GSN10	Switch guard Wall-hanging clasp set (For V808CH/V608CH) Wall-hanging bracket (wall side) (For V808CH/V608CH) Fitting for V808CH (VESA-compliant) Surface protection sheet for V806 Surface protection sheet for V806 (nonglare) Surface protection sheet for V808 (nonglare) Surface protection sheet for V808 (nonglare) Surface protection sheet for V810 Surface protection sheet for V810 (nonglare) Surface protection sheet for V812 Surface protection sheet for V812 Surface protection sheet for V812 Surface protection sheet for V812 (nonglare)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
V7-BT Switch guard cover V8H-SWG W8H-SWG W8H-NPI V8H-WFI V8H-WFV Protection sheet V806-GS V806-GSN10 V808-GSN10 V810-GS V810-GSN10 V812-GSN10 V812-GSN10 V715-GS	Switch guard Wall-hanging clasp set (For V808CH/V608CH) Wall-hanging bracket (wall side) (For V808CH/V608CH) Fitting for V808CH (VESA-compliant) Surface protection sheet for V806 Surface protection sheet for V806 (nonglare) Surface protection sheet for V808 (nonglare) Surface protection sheet for V808 (nonglare) Surface protection sheet for V808 (nonglare) Surface protection sheet for V810 Surface protection sheet for V810 (nonglare) Surface protection sheet for V812 Surface protection sheet for V812 Surface protection sheet for V812 Surface protection sheet for V815/V715	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
V7-BT Switch guard cover V8H-SWG Wall-hanging clasp V6H-WF V6H-WFI V8H-WFV Protection sheet V806-GS V806-GSN10 V808-GSN10 V808-GSN10 V810-GS V810-GSN10 V812-GSN10 V715-GS V715-GSN10	Switch guard Wall-hanging clasp set (For V808CH/V608CH) Wall-hanging bracket (wall side) (For V808CH/V608CH) Fitting for V808CH (VESA-compliant) Surface protection sheet for V806 Surface protection sheet for V806 (nonglare) Surface protection sheet for V808 (nonglare) Surface protection sheet for V808 (nonglare) Surface protection sheet for V810 Surface protection sheet for V810 (nonglare) Surface protection sheet for V812 Surface protection sheet for V812 Surface protection sheet for V812 Surface protection sheet for V812 (nonglare)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
V7-BT Switch guard cover V8H-SWG Wall-hanging clasp V6H-WF V6H-WF1 V8H-WFV Protection sheet V806-GS V806-GSN10 V808-GS V808-GSN10 V810-GS V810-GSN10 V812-GS V812-GS V812-GSN10 V812-GS V715-GSN10 Backlight	Switch guard Wall-hanging clasp set (For V808CH/V608CH) Wall-hanging bracket (wall side) (For V808CH/V608CH) Fitting for V808CH (VESA-compliant) Surface protection sheet for V806 Surface protection sheet for V806 (nonglare) Surface protection sheet for V808 (nonglare) Surface protection sheet for V808 (nonglare) Surface protection sheet for V810 Surface protection sheet for V810 Surface protection sheet for V810 (nonglare) Surface protection sheet for V812 Surface protection sheet for V812 (nonglare) Surface protection sheet for V815/V715 Surface protection sheet for V815/V715 (nonglare)	0	0	0	0	0	0	0	0	0	0	0	0 0	0	0	0	0	0	0	0	0	0
V7-BT Switch guard cover V8H-SWG Wall-hanging clasp V6H-WF V6H-WF1 V8H-WFV Protection sheet V806-GS V806-GSN10 V808-GS V808-GSN10 V810-GSN10 V810-GSN10 V812-GS V812-GSN10 V715-GS V715-GSN10 Backlight V808C-FL	Switch guard Wall-hanging clasp set (For V808CH/V608CH) Wall-hanging bracket (wall side) (For V808CH/V608CH) Fitting for V808CH (VESA-compliant) Surface protection sheet for V806 Surface protection sheet for V806 (nonglare) Surface protection sheet for V808 (nonglare) Surface protection sheet for V808 (nonglare) Surface protection sheet for V810 Surface protection sheet for V810 Surface protection sheet for V812 Surface protection sheet for V812 Surface protection sheet for V815 (nonglare) Surface protection sheet for V815/V715 Surface protection sheet for V815/V715 (nonglare) Backlight for V808C series	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
V7-BT Switch guard cover V8H-SWG W8H-SWG W8H-NPI V8H-WFI V8H-WFV Protection sheet V806-GS V806-GSN10 V808-GSN10 V810-GSN10 V810-GS V810-GSN10 V812-GSN10 V812-GSN10 V715-GSN10 Backlight V8086-FL V808S-FL	Switch guard Wall-hanging clasp set (For V808CH/V608CH) Wall-hanging bracket (wall side) (For V808CH/V608CH) Fitting for V808CH (VESA-compliant) Surface protection sheet for V806 Surface protection sheet for V806 (nonglare) Surface protection sheet for V808 (nonglare) Surface protection sheet for V808 (nonglare) Surface protection sheet for V810 Surface protection sheet for V810 (nonglare) Surface protection sheet for V812 Surface protection sheet for V812 Surface protection sheet for V815 (nonglare) Surface protection sheet for V815/V715 Surface protection sheet for V815/V715 (nonglare) Backlight for V808C series Backlight for V808C series	0	0	0	0	0	0	0	0	0	0	0	0 0	0	0	0	0	0	0	0	0	0
V7-BT Switch guard cover V8H-SWG Wall-hanging clasp V6H-WF V6H-WF1 V8H-WFV Protection sheet V806-GS V806-GSN10 V808-GS V808-GSN10 V810-GSN10 V810-GSN10 V812-GS V812-GSN10 V715-GS V715-GSN10 Backlight V808C-FL	Switch guard Wall-hanging clasp set (For V808CH/V608CH) Wall-hanging bracket (wall side) (For V808CH/V608CH) Fitting for V808CH (VESA-compliant) Surface protection sheet for V806 Surface protection sheet for V806 (nonglare) Surface protection sheet for V808 (nonglare) Surface protection sheet for V808 (nonglare) Surface protection sheet for V810 Surface protection sheet for V810 Surface protection sheet for V812 Surface protection sheet for V812 Surface protection sheet for V815 (nonglare) Surface protection sheet for V815/V715 Surface protection sheet for V815/V715 (nonglare) Backlight for V808C series	0	0	0	0	0	0	0	0	0	0	0	0 0	0	0	0	0	0	0	0	0	0

^{*1} The optional unit: DU-10 is required. *2 Used both MJ1/MJ2 ports.

Customer Service

Global service network

Please contact our customer service department for information and advice.

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Website

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Includes FAQs for troubleshooting, instruction manuals, sample screens, and information for upgrading of configuration software.





http://www.monitouchv8.com

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Product Warranty

To the purchasers of Hakko Electronics products:

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 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 Hakko Electronics' 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 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 Hakko Electronics product.
 - 4) The malfunction occurs due to an alteration or repair that was not performed by 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 Hakko Electronics is 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) 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 Hakko Electronics or its 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 Hakko Electronics.

2. Liability for Opportunity Loss

Regardless of the time of occurrence, Hakko Electronics is not liable for damage caused by factors that Hakko Electronics is not responsible for, opportunity loss on the part of the purchaser caused by the malfunction of a 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 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 Hakko Electronics or its 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. Hakko Electronics is 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 Hakko Electronics or its 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 Hakko Electronics product is purchased. Please consult your local supplier or 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 the Hakko Overseas Sales Section.
- 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

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Distributor



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^{*} Printed with environment-friendly soy ink