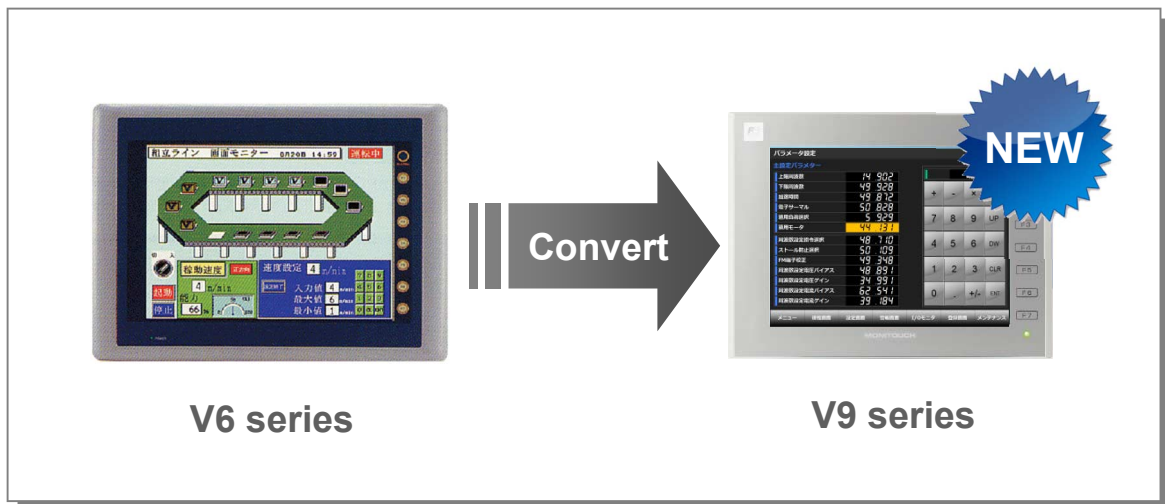


# MONITOUCH

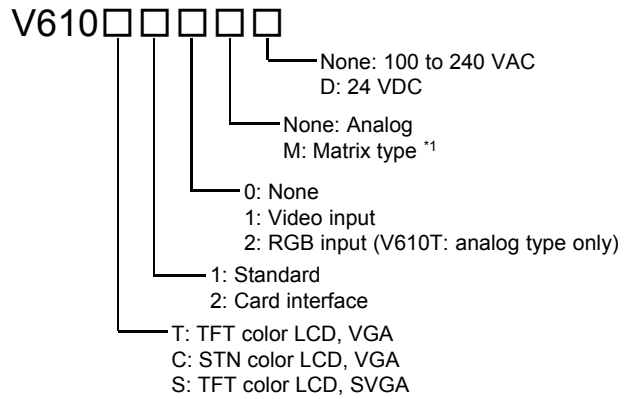
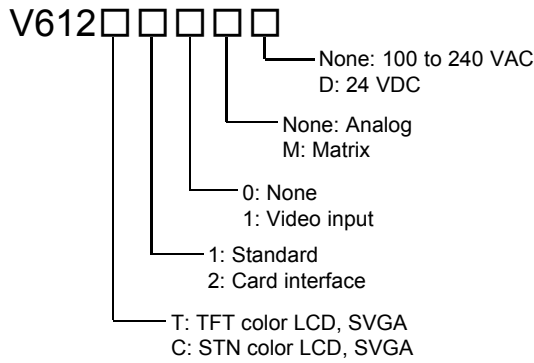
## V9 Replacement Guidance [V6 series]



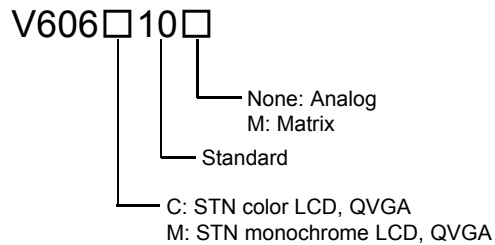
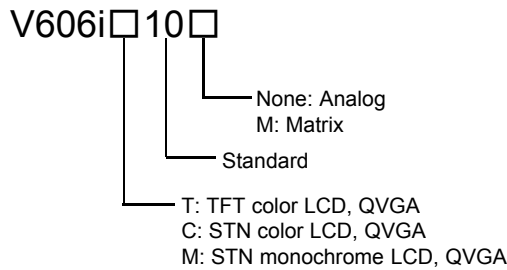
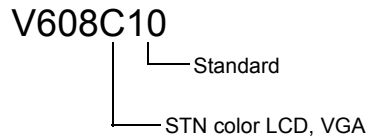
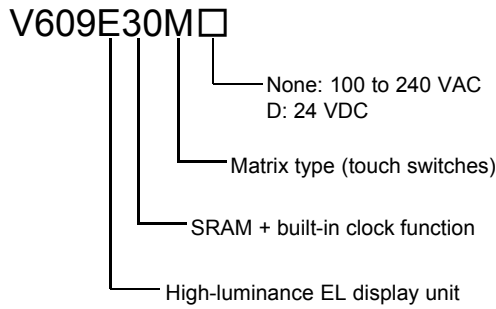
**- V6 series models**

The V6 series models are listed below.

Check the recommended models for replacement according to the V6 series model currently in use.


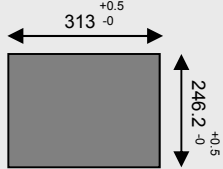



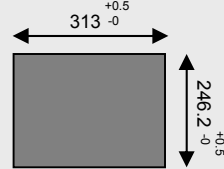
\*1 There are no matrix switch types to the V610S.



- Recommended models for replacement of V612 series

- Without video input

		V612 series			
		V612Tx0 V612Tx0M	V612Tx0D V612Tx0MD	V612Cx0 V612Cx0M	V612Cx0D V612Cx0MD
MONITOUCH	- Front view				
	- Panel cut-out dimensions (mm)				
Display device		TFT color		STN color	
Colors		128 colors			
Resolution		800 × 600 dots			
Touch switch		Analog / matrix *1			
Comm. I/F	Serial	D-sub 25-pin: RS-232C / RS-422/485 Modular jack 8-pin (2 ports): RS-232C / RS-485			
	Network	Communication unit: CU-xx			
Storage device		Dedicated memory card *2			
Power supply		85 to 265 VAC	24 VDC	85 to 265 VAC	24 VDC

		Recommended models for replacement	
		V9120iS	V9120iSD
MONITOUCH	- Front view		
	- Panel cut-out dimensions (mm)		
Display device		TFT color	
Colors		16.77 million colors *3	
Resolution		800 × 600 dots	
Touch switch		Analog *4	
Comm. I/F	Serial	D-sub 9-pin: RS-232C / RS-422/485 *5 Modular jack 8-pin (2 ports): RS-232C / RS-485	
	Network	Communication unit: CUR-xx	
Storage device		SD/SDHC card, USB flash drive	
Power supply		100 to 240 VAC	24 VDC

\*1 Models with "M": Matrix type


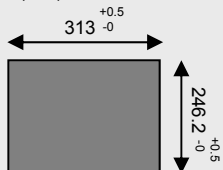
\*2 V612x2 or Hakko Electronics' optional unit "CREC"


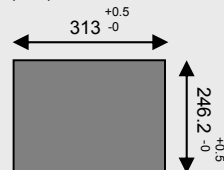
\*3 Only for "picture" images, 3D parts, video images, and RGB display (when "GUR-10" or "GUR-11" is used). The other contents are displayed in 65,536 colors.

\*4 Two points on the screen cannot be pressed simultaneously. For two-point pressing, use a switch on the screen and a function switch.

\*5 When using the existing cable, use Hakko Electronics' conversion cable "D9-D25". When using Hakko Electronics' optional unit "TC485", use "TC-D9".

- With video input

		V612 series	
		V612Tx1 V612Tx1M	V612Tx1D V612Tx1MD
MONITOUCH	- Front view		
	- Panel cut-out dimensions (mm)		
Display device		TFT color	
Colors		128 colors	
Resolution		800 × 600 dots	
Touch switch		Analog / matrix *1	
Comm. I/F	Serial	D-sub 25-pin: RS-232C / RS-422/485 Modular jack 8-pin (2 ports): RS-232C / RS-485	
	Network	Communication unit: CU-xx	
Video		4CH	
Storage device		Dedicated memory card *2	
Power supply		85 to 265 VAC	24 VDC

		Recommended models for replacement	
		V9120iS	V9120iSD
MONITOUCH	- Front view		
	- Panel cut-out dimensions (mm)		
Display device		TFT color	
Colors		16.77 million colors *3	
Resolution		800 × 600 dots	
Touch switch		Analog *4	
Comm. I/F	Serial	D-sub 9-pin: RS-232C / RS-422/485 *5 Modular jack 8-pin (2 ports): RS-232C / RS-485	
	Network	Communication unit: CUR-xx	
Video		Optional unit: GUR-00 (4CH)	
Storage device		SD/SDHC card, USB flash drive	
Power supply		100 to 240 VAC	24 VDC

\*1 Models with "M": Matrix type

\*2 V612x2 or Hakko Electronics' optional unit "CREC"


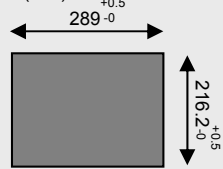
\*3 Only for "picture" images, 3D parts, video images, and RGB display (when "GUR-10" or "GUR-11" is used). The other contents are displayed in 65,536 colors.


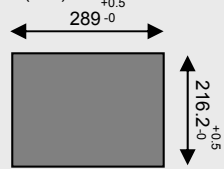
\*4 Two points on the screen cannot be pressed simultaneously. For two-point pressing, use a switch on the screen and a function switch.

\*5 When using the existing cable, use Hakko Electronics' conversion cable "D9-D25". When using Hakko Electronics' optional unit "TC485", use "TC-D9".

- Recommended models for replacement of V610S series

- Without video input

		V610S series	
		V610Sx0	V610Sx0D
MONITOUCH	- Front view		
	- Panel cut-out dimensions (mm)		
Display device	TFT color		
Colors	128 colors		
Resolution	800 × 600 dots		
Touch switch	Analog		
Comm. I/F	Serial	D-sub 25-pin: RS-232C / RS-422/485 Modular jack 8-pin (2 ports): RS-232C / RS-485	
	Network	Communication unit: CU-xx	
Storage device	Dedicated memory card *1		
Power supply	85 to 265 VAC	24 VDC	

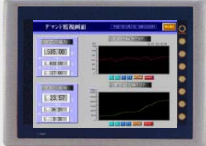
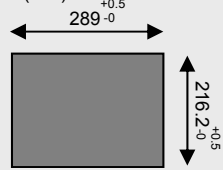
		Recommended models for replacement	
		V9100iS	V9100iSD
MONITOUCH	- Front view		
	- Panel cut-out dimensions (mm)		
Display device	TFT color		
Colors	16.77 million colors *2		
Resolution	800 × 600 dots		
Touch switch	Analog		
Comm. I/F	Serial	D-sub 9-pin: RS-232C / RS-422/485 *3 Modular jack 8-pin (2 ports): RS-232C / RS-485	
	Network	Communication unit: CUR-xx	
Storage device	SD/SDHC card, USB flash drive		
Power supply	100 to 240 VAC	24 VDC	


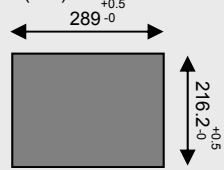
\*1 V610S2 or Hako Electronics' optional unit "CREC"

\*2 Only for "picture" images, 3D parts, video images, and RGB display (when "GUR-10" or "GUR-11" is used). The other contents are displayed in 65,536 colors.

\*3 When using the existing cable, use Hako Electronics' conversion cable "D9-D25". When using Hako Electronics' optional unit "TC485", use "TC-D9".

- With video input

		V610S series	
		V610Sx1	V610Sx1D
MONITOUCH	- Front view		
	- Panel cut-out dimensions (mm)		
Display device	TFT color		
Colors	128 colors		
Resolution	800 × 600 dots		
Touch switch	Analog		
Comm. I/F	Serial	D-sub 25-pin: RS-232C / RS-422/485 Modular jack 8-pin (2 ports): RS-232C / RS-485	
	Network	Communication unit: CU-xx	
Video	4CH		
Storage device	Dedicated memory card *1		
Power supply	85 to 265 VAC	24 VDC	

		Recommended models for replacement	
		V9100iS	V9100iSD
MONITOUCH	- Front view		
	- Panel cut-out dimensions (mm)		
Display device	TFT color		
Colors	16.77 million colors *2		
Resolution	800 × 600 dots		
Touch switch	Analog *3		
Comm. I/F	Serial	D-sub 9-pin: RS-232C / RS-422/485 *4 Modular jack 8-pin (2 ports): RS-232C / RS-485	
	Network	Communication unit: CUR-xx	
Video	Optional unit: GUR-00 (4CH)		
Storage device	SD/SDHC card, USB flash drive		
Power supply	100 to 240 VAC	24 VDC	

\*1 V610S2 or Hako Electronics' optional unit "CREC"

\*2 Only for "picture" images, 3D parts, video images, and RGB display (when "GUR-10" or "GUR-11" is used). The other contents are displayed in 65,536 colors.

\*3 Two points on the screen cannot be pressed simultaneously. For two-point pressing, use a switch on the screen and a function switch.

\*4 When using the existing cable, use Hako Electronics' conversion cable "D9-D25". When using Hako Electronics' optional unit "TC485", use "TC-D9".

- Recommended models for replacement of V610T/C series

- Without video input/RGB input

V610T/V610C series					
		V610Tx0 V610Tx0M	V610Tx0D V610Tx0MD	V610Cx0 V610Cx0M	V610Cx0D V610Cx0MD
MONITOUCH	- Front view				
	- Panel cut-out dimensions (mm)				
Display device	TFT color		STN color		
Colors	128 colors				
Resolution	640 × 480 dots				
Touch switch	Analog / matrix *1				
Comm. I/F	Serial	D-sub 25-pin : RS-232C / RS-422/485 Modular jack 8-pin (2 ports): RS-232C / RS-485			
	Network	Communication unit: CU-xx			
Storage device	Dedicated memory card *2				
Power supply	85 to 265 VAC	24 VDC	85 to 265 VAC	24 VDC	

Recommended models for replacement		
V9100iC	V9100iCD	
- Front view		
- Panel cut-out dimensions (mm)		
Display device	TFT color	
Colors	16.77 million colors *3	
Resolution	640 × 480 dots	
Touch switch	Analog *4	
Comm. I/F	D-sub 9-pin: RS-232C / RS-422/485 *5 Modular jack 8-pin (2 ports): RS-232C / RS-485	
Communication unit	CUR-xx	
Storage device	SD/SDHC card, USB flash drive	
Power supply	100 to 240 VAC	24 VDC

\*1 Models with "M": Matrix type

\*2 V610x2 or Hakko Electronics' optional unit "CREC"

\*3 Only for "picture" images and 3D parts. The other contents are displayed in 65,536 colors.

\*4 Two points on the screen cannot be pressed simultaneously. For two-point pressing, use a switch on the screen and a function switch.

\*5 When using the existing cable, use Hakko Electronics' conversion cable "D9-D25". When using Hakko Electronics' optional unit "TC485", use "TC-D9".

- With video input/RGB input

V610T series					
		V610Tx1 V610Tx1M	V610Tx1D V610Tx1MD	V610Tx2	V610Tx2D
MONITOUCH	- Front view				
	- Panel cut-out dimensions (mm)				
Display device	TFT color				
Colors	128 colors				
Resolution	640 × 480 dots				
Touch switch	Analog / matrix *1				
Comm. I/F	Serial	D-sub 25-pin: RS-232C / RS-422/485 Modular jack 8-pin (2 ports): RS-232C / RS-485			
	Network	Communication unit: CU-xx			
Video	4CH		-		
RGB input	-		1CH		
Storage device	Dedicated memory card *2				
Power supply	85 to 265 VAC	24 VDC	85 to 265 VAC	24 VDC	

Recommended models for replacement		
V9100iS	V9100iSD	
- Front view		
- Panel cut-out dimensions (mm)		
Display device	TFT color	
Colors	16.77 million colors *3	
Resolution	800 × 600 dots *4	
Touch switch	Analog *5	
Comm. I/F	D-sub 9-pin: RS-232C / RS-422/485 *6 Modular jack 8-pin (2 ports): RS-232C / RS-485	
Communication unit	CUR-xx	
Optional unit	GUR-00 (4CH)	
Optional unit	GUR-01 (1CH)	
Storage device	SD/SDHC card, USB flash drive	
Power supply	100 to 240 VAC	24 VDC

\*1 Models with "M": Matrix type

\*2 V610T2 or Hakko Electronics' optional unit "CREC"


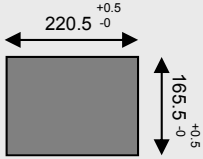
\*3 Only for "picture" images, 3D parts, video images, and RGB display (when "GUR-10" or "GUR-11" is used). The other contents are displayed in 65,536 colors.


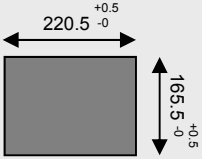
\*4 The resolution specification is SVGA. Use the automatic resizing function when changing the MONITOUCH model setting in the screen program.

\*5 Two points on the screen cannot be pressed simultaneously. For two-point pressing, use a switch on the screen and a function switch.

\*6 When using the existing cable, use Hakko Electronics' conversion cable "D9-D25". When using Hakko Electronics' optional unit "TC485", use "TC-D9".

- Recommended models for replacement of V608

		V608
		V608C10
MONITOUCH	- Front view	
	- Panel cut-out dimensions (mm)	
Display device		STN color
Colors		128 colors
Resolution		640 × 480 dots
Touch switch		Analog
Comm. I/F	Serial	D-sub 25-pin: RS-232C / RS-422/485 Modular jack 8-pin (2 ports): RS-232C / RS-485
	Network	Communication unit: CU-xx
Storage device		Dedicated memory card *1
Power supply		24 VDC


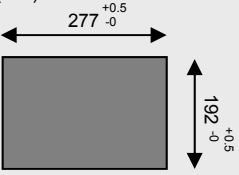
		Recommended models for replacement
		V9080iCD
	- Front view	
	- Panel cut-out dimensions (mm)	
		<b>TFT color</b>
		<b>16.77 million colors</b> *2
		640 × 480 dots
		Analog
		<b>D-sub 9-pin: RS-232C / RS-422/485</b> *3 Modular jack 8-pin (2 ports): RS-232C / RS-485
		<b>Communication unit: CUR-xx</b>
		<b>SD/SDHC card, USB flash drive</b>
		24 VDC


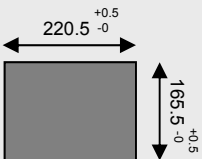
\*1 Hakko Electronics' optional unit "CREC"

\*2 Only for "picture" images and 3D parts. The other contents are displayed in 65,536 colors.

\*3 When using the existing cable, use Hakko Electronics' conversion cable "D9-D25". When using Hakko Electronics' optional unit "TC485", use "TC-D9".

- Recommended models for replacement of V609E

		V609E	
		V609Ex0M	V609Ex0MD
MONITOUCH	- Front view		
	- Panel cut-out dimensions (mm)		
Display device		EL / high-luminance EL	
Colors		2 colors	
Resolution		640 × 400 dots	
Touch switch		Matrix	
Comm. I/F	Serial	D-sub 25-pin: RS-232C / RS-422/485 Modular jack 8-pin (2 ports): RS-232C / RS-485	
		Dedicated memory card *1	
Power supply		100 to 240 VAC	24 VDC

		Recommended models for replacement
		V9080iCD
	- Front view	
	- Panel cut-out dimensions (mm) *2	
		<b>TFT color</b>
		<b>16.77 million colors</b> *3
		<b>640 × 480 dots</b>
		<b>Analog</b> *4
		<b>D-sub 9-pin: RS-232C / RS-422/485</b> *5 Modular jack 8-pin (2 ports): RS-232C / RS-485
		<b>SD/SDHC card, USB flash drive</b>
		<b>24 VDC</b> *6

\*1 Hakko Electronics' optional unit "CREC"

\*2 Use Hakko Electronics' mounting panel adaptor "PAD-V608-01".


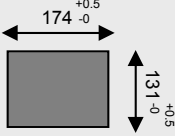
\*3 Only for "picture" images and 3D parts. The other contents are displayed in 65,536 colors. Color settings compatible with GD-80 are available by setting [Color Batch Change] on V-SFT.


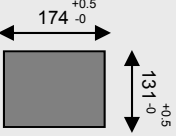
\*4 Two points on the screen cannot be pressed simultaneously. For two-point pressing, use a switch on the screen and a function switch.

\*5 When using the existing cable, use Hakko Electronics' conversion cable "D9-D25". When using a terminal block, use "TC-D9".

\*6 When replacing an AC power type model, use Hakko Electronics' AC power unit "V9080C-PW".


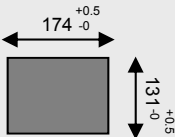
- Recommended models for replacement of V606i series


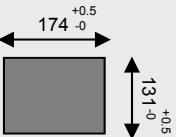
		V606i series		
		V606iT10 V606iT10M	V606iC10 V606iC10M	V606iM10 V606iM10M
MONITOUCH	- Front view			
	- Panel cut-out dimensions (mm)			
Display device	TFT color	STN color	STN monochrome	
Colors	16 colors		8-level grayscale	
Resolution	320 × 240 dots			
Touch switch	Analog / matrix *1			
Comm. I/F	Serial	D-sub 25-pin: RS-232C / RS-422/485 Modular jack 8-pin (2 ports): RS-232C / RS-422/485		
	Network	Communication unit: CU-xx		
Storage device	Dedicated memory card *2			
Power supply	24 VDC			

		Recommended models for replacement	
		V9060ITD	
	- Front view		
	- Panel cut-out dimensions (mm)		
		<b>TFT color</b>	
		<b>260 thousand colors *3</b>	
		<b>640 × 480 dots *4</b>	
		<b>Analog *5</b>	
		<b>D-sub 9-pin (with "DUR-00" attached): RS-232C / RS-422/485 *6</b> Modular jack 8-pin (2 ports): RS-232C / RS-422/485 *7	
		<b>Communication unit: CUR-xx</b>	
		<b>SD/SDHC card, USB flash drive</b>	
		24 VDC	

\*1 V606iT10M, V606iC10M, V606iM10M: Matrix  
 \*2 Hako Electronics' optional unit "CREC"  
 \*3 Only for "picture" images and 3D parts. The other contents are displayed in 65,536 colors.  
 \*4 The resolution specification is VGA. Use the automatic resizing function when changing the MONITOUCH model setting in the screen program.  
 \*5 Two points on the screen cannot be pressed simultaneously. For two-point pressing, use a switch on the screen and a function switch.  
 \*6 When using the existing cable with "DUR-00" attached, use Hako Electronics' conversion cable "D9-D25". When using Hako Electronics' optional unit "TC485", use "TC-D9".  
 When "DUR-00" is not attached (except when connecting a Mitsubishi A series CPU), use Hako Electronics' conversion cable "MJ2-PLC". When connecting with a Mitsubishi A series CPU, use "V706-ACPU".  
 \*7 The MJ2 port can be used for connection via RS-422 (4-wire connection).

- Recommended models for replacement of V606 series

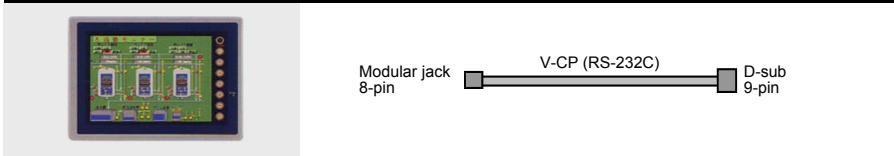
		V606 series	
		V606C10 V606C10M	V606M10 V606M10M
MONITOUCH	- Front view		
	- Panel cut-out dimensions (mm)		
Display device	STN color	STN monochrome	
Colors	16 colors		8-level grayscale
Resolution	320 × 240 dots		
Touch switch	Analog / matrix *1		
Comm. I/F	Serial	D-sub 25-pin: RS-232C / RS-422/485 Modular jack 8-pin (2 ports): RS-232C / RS-485	
	Network	Communication unit: CUS-xx	
Storage device	Dedicated memory card *2		
Power supply	24 VDC		

		Recommended models for replacement	
		V9060ITD	
	- Front view		
	- Panel cut-out dimensions (mm)		
		<b>TFT color</b>	
		<b>260 thousand colors *3</b>	
		<b>640 × 480 dots *4</b>	
		<b>Analog *5</b>	
		<b>D-sub 9-pin (with "DUR-00" attached): RS-232C / RS-422/485 *6</b> Modular jack 8-pin (2 ports): RS-232C / RS-422/485 *7	
		<b>Communication unit: CUR-xx</b>	
		<b>SD/SDHC card, USB flash drive</b>	
		24 VDC	

\*1 V606C10M, V606M10M: Matrix  
 \*2 Hako Electronics' optional unit "CREC"  
 \*3 Only for "picture" images and 3D parts. The other contents are displayed in 65,536 colors.  
 \*4 The resolution specification is VGA. Use the automatic resizing function when changing the MONITOUCH model setting in the screen program.  
 \*5 Two points on the screen cannot be pressed simultaneously. For two-point pressing, use a switch on the screen and a function switch.  
 \*6 When using the existing cable with "DUR-00" attached, use Hako Electronics' conversion cable "D9-D25". When using Hako Electronics' optional unit "TC485", use "TC-D9".  
 When "DUR-00" is not attached (except when connecting a Mitsubishi A series CPU), use Hako Electronics' conversion cable "MJ2-PLC". When connecting with a Mitsubishi A series CPU, use "V706-ACPU".  
 \*7 The MJ2 port can be used for connection via RS-422 (4-wire connection).

## - Screen program transfer

### - V6 series



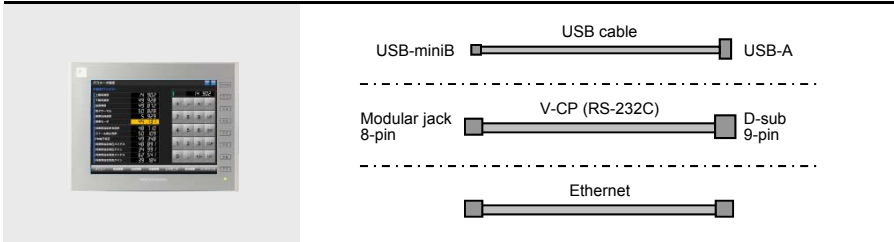
\* Screen programs can also be transferred via Ethernet (when a communication unit "CU-03-3" is used).

[Screen configuration software]

**V-SFT-5 (Ver. 5)**  
 Windows 98SE / NT4.0 / Me / 2000 /  
 XP / XP 64 Edition / Vista (32bit, 64bit) /  
 7 (32bit, 64bit) / 8 (32bit, 64bit) /  
 8.1 (32bit, 64bit) / 10 (32bit, 64bit)



### - V9 series



\* Screen programs can also be transferred by using an SD card or USB flash drive.

\* The LAN port of the V9 unit is compatible with Auto-MDIX. Both straight and cross cables are usable in either presence or absence of a hub.

[Screen configuration software]

**V-SFT-6 (Ver. 6)**  
 Windows XP / XP 64 Edition /  
 Vista (32bit, 64bit) / 7 (32bit, 64bit) /  
 8 (32bit, 64bit) / 8.1 (32bit, 64bit) /  
 10 (32bit, 64bit)

## - Screen program conversion

The V6 series can be replaced with the V9 series by converting the V6 series screen program using V-SFT-6 (V series screen configuration software). However, note that 100% compatibility cannot be maintained and some functions may be limited or may not be used after replacement.

For details, refer to the V9 Series File Conversion Manual.

\* The indicated recommended model for replacement can be used with minimal restrictions. Please note that other models not described here can also be used; make a selection according to your system requirements.

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