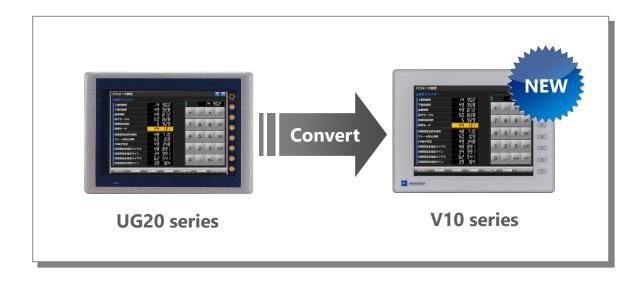


# V10 Replacement Guidance [UG20 series]



- List of Recommended Replacement Models Page 2
- Configuration Software Page 6
- Screen Program Conversion Page 6

#### - List of Recommended Replacement Models

Following is a list of V10 replacement models for UG20 series. Please check the model of UG20 unit in use and select the recommended replacement model.

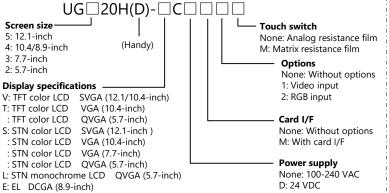
Size	UG20	model
12.1-inch SVGA	UG520H-VC1xx	UG520H-xC1xxD <sup>*1</sup>
	UG520H-SC1x	
	UG520H-VC4xx	UG520H-xC4xxD <sup>*1</sup>
	UG520H-SC4x	
10.4-inch SVGA	UG420H-VC1xx	-
	UG420H-VC4xx	-
10.4-inch VGA	UG420H-TC1x1	UG420H-TC1xxD*1
With Video display	UG420H-TC1x2	
With RGB display *2	UG420H-TC4x1	UG420H-TC4xxD*1
	UG420H-TC4x2	
10.4-inch VGA	UG420H-TC1xx	UG420H-xC1xxD*1
Without Video display	UG420H-TC4xx	
Without RGB display	UG420H-SC1x	UG420H-xC4xxD <sup>*1</sup>
	UG420H-SC4x	
7.7-inch VGA	UG320H-SC4	-
7.7-inch VGA Handy model	UG320HD-SC4xx	-
8.9-inch DCGA	UG420H-EC1D*1	-
	UG420H-EC4D <sup>*1</sup>	-
5.7-inch QVGA	UG221H-TC4x	UG221H-TC4D*1
	UG221H-SC4x	UG221H-SC4D*1
	UG221H-LC4x	UG221H-LC4D*1
	UG220H-SC4	UG220H-SC4D*1
	UG220H-LC4	UG220H-LC4D*1
5.7-inch QVGA Simple POD	UG221H-SR4	UG221H-LE4 UG221H-LR4

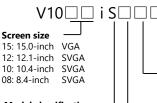
2440				
	V10 model			
Light Gray	Black V1012iSB		to	
V1012iS				
V1012iSD		Page 3		
V1010iS				
V1010iSD	V1010iSBD			
V1010iS	V1010iSB		Dense 4	
V1010iSD	V1010iSBD		<u>Page 4</u>	
If replaced with V10, change from VGA to If the same resolutio use the V9 Lite mod		<u>Page 5</u>		
There are no handy series. Use V808CHx				
There are no 8.9-inc series. Use V9080iCD that s "GD-80E/V609E Con		-		
There are no 5.7-inc series.				
Use TS2060i which h and resolution.		-		

\*1 The "D" in the model number means matrix resistance film model. The touch switches have been changed to analog resistance film in V10.

\*2 When using Video/RGB display, the resolution will be changed by replacing with V10. The Video/RGB display function of V10 is scheduled to be supported in spring 2025. Models with few restrictions on use are described above list of recommended replacement models. It is also possible to replace UG20 with V10 other than the recommended

model. Select the model according to your system. **Model Description** 





Model classification S: Standard TFT color LCD Analog resistance film

#### Power supply None: 100-240 VAC D: 24 VDC

Front case color None: Light gray B. Black

#### Extended communication I/F

None: Without options L: Additional wired LAN R: Wireless LAN

### - UG520H/UG420H-V → V10 Standard



UG520H-S



V1010iS V1012iS

#### **Hardware Specifications**

ltem		UG520H/UG420H-V		V10 Standard
Dimensions	12.1-inch	334.0 x 270.0 x 95.8		327.8 x 261.0 x 53.4
W x H x D (mm)	10.4-inch	310.0 x 240.0 x 92.3		303.8 x 231.0 x 53.8
Panel cut-out	12.1-inch	313.0(+0.5/-0) x 246.2(+0.5/-0)		Same as on the left
W x H (mm)	10.4-inch	289.0(+0.5/-0) x 216.2(+0.5/-0)		Same as on the left
Display device		TFT color/STN color		TFT color
Display colors		128 colors		16.7 million colors *1
Resolution		800 x 600 dots		Same as on the left
Touch switch		Analog resistance film Matrix resistance film		Analog resistance film *2
Communi- Serial cation I/F		D-Sub 25-pin x1 : RS-232C / RS-422/485 Modular 8-pin x2 : RS-232C / RS-485		D-Sub 9-pin x1 : RS-232C / RS-422/485 *3 Modular 8-pin x2 : RS-232C / RS-485
Network		Communication unit: UG03I-x		Communication unit: CUR-xx
Video		4 CH *4	-	Under development Scheduled to be released in spring 2025.
External storage device		Dedicated memory card *5		SD/SDHC/SDXC card USB flash drive

\*1 Only for displaying "picture" images, 3D parts, video / RGB input images and remote desktop window. All other content is displayed using 65,536 colors.
\*2 It is not possible to press two points on the screen at the same time on V10. For two-point press, change the setting to use both a switch on the screen and a function switch.
\*3 When using the existing cable, use Hakko Electronics' conversion cable "D9-D25". When using Hakko Electronics' optional unit "UG00P-TC", use "TC-D9".
\*4 Only for UG520H-VCxx1, UG420H-VCxx1
\*5 When using UG520H-VCxM, UG420H-VCxM or Hakko Electronics' optional unit "UG00P-MR".

# For Fuji Electric

#### - UG420H-TCxx1/UG420H-TCxx2 → V10 Standard

The optional Video/RGB unit of V10 is scheduled to be released in spring 2025.

When using UG420H-TCxx1 to display video or using UG420H-TCxx2 to display RGB input, replace with V1010iS.

The screen resolution differs between UG420H-T and V1010iS. UG420H-T: 640 x 480 → V1010iS: 800 x 600 dots

When converting the screen program from UG20 to V10, use automatic resizing feature of V-SFT. If the layout is changed, adjust it manually.



V1010iS

Optional unit Under development

UG420H-TCxx2

#### **Hardware Specifications**

If	tem	UG420H-TCxx1	UG420H-TCxx2	
Dimensions \	W x H x D (mm)	310.0 x 240.0 x 92.3	310.0 × 240.0 × 92.3	
Panel cut-out	W x H (mm)	289.0(+0.5/-0) x 216.2(+0.5/-0)		
Display device		TFT color		
Display colors	;	128 colors		
Resolution		640 x 480 dots		
Touch switch		Analog resistance film Matrix resistance film		
Communi- cation I/F	Serial		D-Sub 25-pin x1 : RS-232C / RS-422/485 Modular 8-pin x2 : RS-232C / RS-485	
	Network	Communication unit: L	Communication unit: UG03I-x	
Video 4CH -				
RGB		-	- 1CH	
External storage device		Dedicated memory car	rd *5	

\*1 Only for displaying "picture" images, 3D parts, video / RGB input images and remote desktop window. All other content is displayed using 65,536 colors.
\*2 The resolution is SVGA. When converting the screen program, use automatic resizing feature of V-SFT. If the layout is changed, adjust it manually.
\*3 It is not possible to press two points on the screen at the same time on V10. For two-point press, change the setting to use both a switch on the screen and a function switch.
\*4 When using the existing cable, use Hakko Electronics' conversion cable "D9-D25". When using Hakko Electronics' optional unit "UG00P-TC", use "TC-D9".
\*5 When using UG420H-TCxM1, UG420H-TCxM2 or Hakko Electronics' optional unit "UG00P-MR".

#### - UG420H-T/UG420H-S/UG320H-SC4 → V10 Standard

The screen resolution differs between UG420H-T/UG420H-S/UG320H-SC4 and V10 Standard. UG20: 640 x 480 → V10: 800 x 600 dots

If the same resolution model is required, use the V9 Lite model.

When converting the screen program from UG20 to V10, use automatic resizing feature of V-SFT. If the layout is changed, adjust it manually.

#### **Recommended Replacement Models**

Size	UG20 model			V10 model	
5120	UG20 model			Light gray	Black
10.4-inch VGA	UG420H-TC1xx	UG420H-xC1xxD*1		V1010iS	V1010iSB
	UG420H-SC1x				
	UG420H-TC4xx	UG420H-xC4xxD <sup>*1</sup>		V1010iSD	V1010iSBD
	UG420H-SC4x				
7.7-inch VGA	UG320H-SC4	-		V1008iSD	V1008iSBD

\*1 The "D" in the model number means matrix resistance film model. The touch switches have been changed to analog resistance film in V10.





# **Hardware Specifications**

ltem		UG20	V10 Standard
Dimensions	10.4-inch	310.0 x 240.0 x 92.3	303.8 x 231.0 x 53.8
W x H x D (mm)	7.7-inch	230.0 x 175.0 x 66.1	235.0 x 180.0 x 48.7
Panel cut-out	10.4-inch	289.0(+0.5/-0) x 216.2(+0.5/-0)	Come as on the left
W x H (mm)	7.7-inch	220.5(+0.5/-0) x 165.5(+0.5/-0)	Same as on the left
Display device		TFT color/STN color	TFT color
Display colors		128 colors	16.7 million colors *1
Resolution		640 x 480 dots	800 x 600 dots *2
Touch switch		Analog resistance film Matrix resistance film	Analog resistance film *3
Communi- Serial cation I/F		D-Sub 25-pin x1 :RS-232C / RS-422/485 Modular 8-in x2 :RS-232C / RS-485	D-Sub9-pin x1 : RS-232C / RS-422/485 *4 Modular 8-pin x2 : RS-232C / RS-485
Network		Communication unit: UG03I-x	Communication unit: CUR-xx
External storage device		Dedicated memory card *5	SD/SDHC/SDXC card USB flash drive

\*1 Only for displaying "picture" images, 3D parts, video / RGB input images and remote desktop window. All other content is displayed using 65,536 colors.
 \*2 The resolution is SVGA. When converting the screen program, use automatic resizing feature of V-SFT. If the layout is changed, adjust it manually.
 \*3 It is not possible to press two points on the screen at the same time on V10. For two-point press, change the setting to use both a switch on the screen and a function switch.

\*4 When using the existing cable, use Hakko Electronics' conversion cable "D9-D25". When using Hakko Electronics' optional unit "UG00P-TC", use "TC-D9".

\*5 When using UG420H-SCxM or Hakko Electronics' optional unit "UG00P-MR".

#### - Configuration Software

Model	Software	OS	Transferring cable *1
UG20	V-SFT-5	Windows 7 (32bit, 64bit) Windows 8 (32bit, 64bit) Windows 8.1 (32bit, 64bit) Windows 10 (32bit, 64bit) Windows 11(64bit)	<ul> <li>LAN cable *2</li> <li>UG00C-T1 or V-CP (MJ to Dsub9) manufactured by Hakko Electronics Co., Ltd.</li> </ul>
V10	V-SFT-6 Supported with version 6.2.0.0 or later		<ul> <li>USB cable (USB mini-B to USB-A)</li> <li>LAN cable *<sup>3</sup></li> <li>UG00C-T1 or V-CP (MJ to Dsub9) manufactured by Hakko Electronics Co., Ltd.</li> </ul>

\*1 The screen program can be transferred via SD card/USB flash drive when using V10 and dedicated memory card when using UG20.

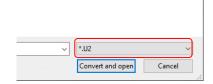
\*2 Available when UG03I-Ex is installed on the UG20 unit.

\*3 LAN connector of V10 supports Auto-MDIX. Straight/crossover cables can be used with or without HUB.

#### - Screen Program Conversion

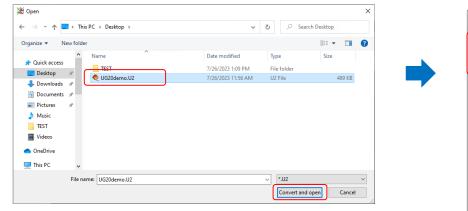
The screen program can be converted from UG20 to V10 using V-SFT-6 (configuration software for V series).

- Conversion procedures
  - Start V-SFT and click [Open] in the Startup menu or [Open] in the [File] menu. The screen program file can also be opened by dragging it onto V-SFT-6. If using this method, proceed to step 4.
  - 2. Change the file extension to [\*.U2] in the [Open] dialog.





- 3. Select the UG20 series screen program file and click [Convert and open]. The [Edit Model Selection] dialog appears.
- 4. Select the V10 series model and click [OK].





# F Fuji Electric

# MONITOUCH

- The dialog on the right may be displayed.
   When connecting to a printer : Click [Yes]
   When not connecting to a printer : Click [No]
- 6. The dialog on the right may be displayed. Click [Yes].
- When converting the program with different resolution, the dialog shown to the right will appear.
   When enlarging parts: Click [Yes]
   When not enlarging parts: Click [No]

VSft60		>	<
?	[PR201 Monochrome] is set as the printer model. If this printer is not in use, do you wish to set [Not Used] the printer model?	as	
	Yes No	)	
VSft60	×		
?	Memory Card mode and Memory Card Setting They will be changed to Recipe mode and recipe setting. Do you want to proceed?	*	The data conversion in the storage device is required. Refer to the Memory Card Mode
	Yes No		Conversion Manual.
VSft60	×		
?	Do you want to change the item size to fit in the screen size? You cannot undo the operation. Make a backup copy before executing the change.	*	If the layout is changed, adjust i manually.
	OK Cancel		

The following dialog may be displayed.
 Click [Yes] to display the error check window and check the functions and setting which are not available.
 Check [solution] and modify it.

If the same warning message appears even in the UG20 screen program before conversion, the warning does not affect the program and you can use it without modification.

VSft60 ×	Error Check						
The new edit model does not support some of the functions and	00	🙆 🙆 D Error 🕅 2 Warning 🖻 🎯					
setting. Do you want to display the list of the functions and setting which	Category	Location	Explanation	Solution			
are not available?		Overlap Library[7] Normal Overlap	Overlap larger than the screen is created.	Set the overlap			
		Overlap Library[8] Normal Overlap	Overlap larger than the screen is created.	Set the overlap			
OK. Cancel							

9. The screen program converted to V10 series is displayed on V-SFT. Name and save the file.



The converted V10 screen program cannot be converted back to the UG20 screen program. Confirm the operation with the V10 series unit before use.

Hakko Electronics Co., Ltd.

TEL: +81-76-274-2144 E-mail: support@hakko-elec.co.jp www.monitouch.com