MONITOUCH

V10 Replacement Guidance
[UG40 series]
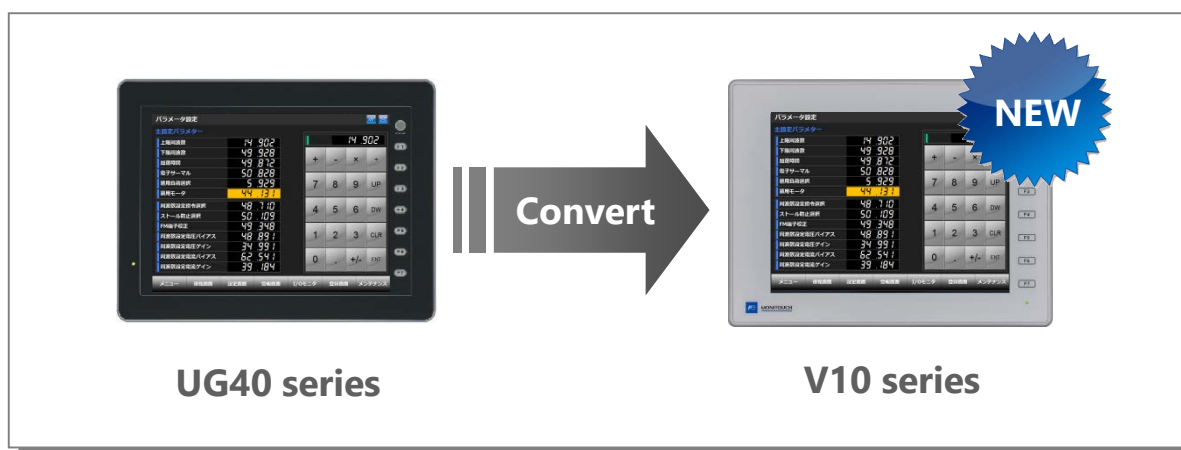
UG40 series　　　Convert　　　**V10 series**　NEW

- List of Recommended Replacement Models

Following is a list of V10 replacement models for UG40 series. Please check the model of UG40 unit in use and select the recommended replacement model.
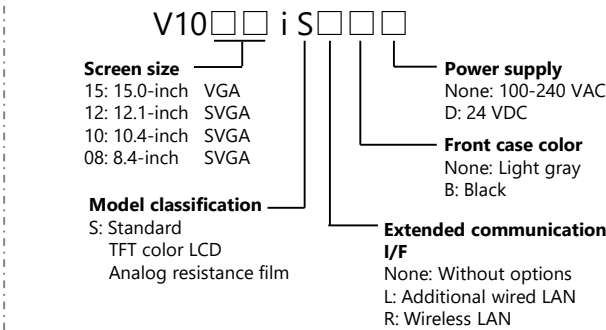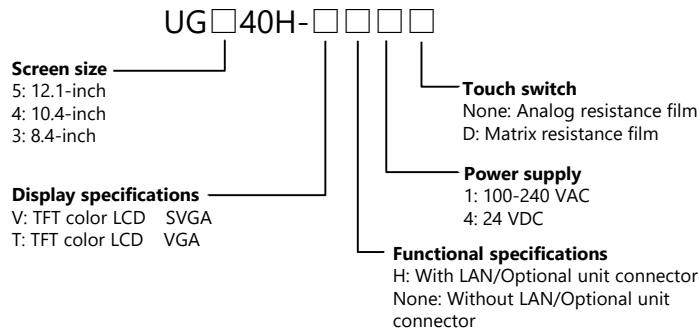
Size	UG40 model		V10 model		Refer to
			Light Gray	Black	
12.1-inch SVGA	UG540H-VH1	UG540H-VS1	V1012iS	V1012iSB	Page 3
	UG540H-VH1D[*1]	UG540H-VS1D[*1]			
	UG540H-VH4	UG540H-VS4	V1012iSD	V1012iSBD	
	UG540H-VH4D[*1]	UG540H-VS4D[*1]			
10.4-inch SVGA	UG440H-VH1	UG440H-VS1	V1010iS	V1010iSB	
	UG440H-VH4	UG440H-VS4	V1010iSD	V1010iSBD	
8.4-inch SVGA	UG340H-VH4	UG340H-VS4	V1008iSD	V1008iSBD	
10.4-inch VGA With Video display With RGB display *2	UG440H-TH1	+ UG00A-xxx	V1010iS	V1010iSB	Page 4
	UG440H-TH1D[*1]	+ UG00A-xxx			
	UG440H-TH4	+ UG00A-xxx	V1010iSD	V1010iSBD	
	UG440H-TH4D[*1]	+ UG00A-xxx			
10.4-inch VGA Without Video display Without RGB display	UG440H-TH1	UG440H-TS1	If replaced with V10, the resolution will change from VGA to SVGA. If the same resolution model is required, use the V9 Lite model.		Page 5
	UG440H-TH1D[*1]	UG440H-TS1D [*1]			
	UG440H-TH4	UG440H-TS4			
	UG440H-TH4D[*1]	UG440H-TS4D[*1]			

*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 April 2024.

* **Models with few restrictions on use are described above list of recommended replacement models. It is also possible to replace UG40 with V10 other than the recommended model. Select the model according to your system.**

Model Description

UG□40H-□□□□

Screen size
5: 12.1-inch
4: 10.4-inch
3: 8.4-inch

Display specifications
V: TFT color LCD　SVGA
T: TFT color LCD　VGA

Touch switch
None: Analog resistance film
D: Matrix resistance film

Power supply
1: 100-240 VAC
4: 24 VDC

Functional specifications
H: With LAN/Optional unit connector
None: Without LAN/Optional unit connector

V10□□ i S□□□

Screen size
15: 15.0-inch　VGA
12: 12.1-inch　SVGA
10: 10.4-inch　SVGA
08: 8.4-inch　SVGA

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

- UG540H/UG440H/UG340H → V10 Standard

UG540H-VH
UG540H-VS

UG440H-VH
UG440H-VS

UG340H-VH
UG340H-VS

V1012iS

V1010iS

V1008iS

Hardware Specifications

Item		UG540H/UG440H/UG340H	V10 Standard
Dimensions W x H x D (mm)	12.1-inch	326.4 x 259.6 x 69.0	327.8 x 261.0 x 53.4
	10.4-inch	303.8 x 231.0 x 69.0	303.8 x 231.0 x 53.8
	8.4-inch	233.0 x 178.0 x 65.8	235.0 x 180.0 x 48.7
Panel cut-out W x H (mm)	12.1-inch	313.0(+0.5/-0) x 246.2(+0.5/-0)	Same as on the left
	10.4-inch	289.0(+0.5/-0) x 216.2(+0.5/-0)	
	8.4-inch	220.5(+0.5/-0) x 165.5(+0.5/-0)	
Display device		TFT color	Same as on the left
Display colors		65,536 colors	16.7 million colors *1
Resolution	12.1/10.4/8.4 -inch	800 x 600 dots	Same as on the left
Touch switch		Analog resistance film Matrix resistance film	Analog resistance film *2
Communi- cation I/F	Serial	D-Sub 9-pin x1 : RS-232C / RS-422/485 Modular 8-pin x2 : RS-232C / RS-485	Same as on the left
	USB	USB-A x1, USB-B x1	USB-A x1, USB mini-B x1
	Ethernet	For model "-VH" only LAN x1: Standard equipment	LAN x1 : Standard equipment LAN2 x1 : Optional equipment *3
	Wireless LAN	Not available	WLAN x1 Optional equipment *3
	Network	Communication unit: UG03I-x	Communication unit: CUR-xx
Audio output		Optional unit: UG00A-xxx (xxx: VIS, RIS, ROS, SUD)	Standard equipment
Video/RGB		Optional unit: UG00A-xxx (xxx: VIS, RIS, ROS, VRI,RI2)	Under development Scheduled to be released in April 2024.
External storage device		CF card USB flash drive	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 LAN2 is supported only for models with "L" in the model number. Wireless LAN is supported only for models with "R" in the model number.

- UG440H-TH + UG00A-xxx → V10 Standard

The optional Video/RGB unit of V10 is scheduled to be released in April 2024.

When using UG440H-TH + UG00A-xxx to display video/RGB, replace with V1010iS.

The screen resolution differs between UG440H-TH and V1010iS.
  UG440H-TH: 640 x 480   →   V1010iS: 800 x 600 dots

When converting the screen program from UG440H-TH to V10, use automatic resizing feature of V-SFT. If the layout is changed, adjust it manually.

UG440H-TH   +   UG00A-xxx

V1010iS   +   Optional unit
Under development

Hardware Specifications

Item		UG440H-TH + UG00A-xxx	V10 Standard
Dimensions W x H x D (mm)		303.8 x 231.0 x 69.0	303.8 x 231.0 x 53.8
Panel cut-out W x H (mm)		289.0(+0.5/-0) x 216.2(+0.5/-0)	Same as on the left
Display device		TFT color	Same as on the left
Display colors		65,536 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-cation I/F	Serial	D-Sub 9-pin x1 : RS-232C / RS-422/485 Modular 8-pin x2 : RS-232C / RS-485	Same as on the left
	USB	USB-A x1, USB-B x1	USB-A x1, USB mini-B x1
	Ethernet	LAN x1: Standard equipment	LAN x1 : Standard equipment LAN2 x1 : Optional equipment *4
	Wireless LAN	Not available	WLAN x1 Optional equipment *4
	Network	Communication unit: UG03I-x	Communication unit: CUR-xx
Audio output		Optional unit: UG00A-xxx (xxx: VIS, RIS, ROS, SUD)	Standard equipment
Video/RGB		Optional unit: UG00A-xxx (xxx: VIS, RIS, ROS, VRI,RI2)	Under development Scheduled to be released in April 2024.
External storage device		CF card USB flash drive	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 LAN2 is supported only for models with "L" in the model number. Wireless LAN is supported only for models with "R" in the model number.

- UG440H-TH/UG440H-TS → V10 Standard

The screen resolution differs between UG440H-TH/UG440H-TS and V10 Standard.
　UG440H-TH/UG440H-TS: 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 UG440H-TH/UG440H-TS to V10, use automatic resizing feature of V-SFT. If the layout is changed, adjust it manually.

Recommended Replacement Models

Size	UG40 model		V10 model	
			Light gray	**Black**
10.4-inch VGA	UG440H-TH1	UG440H-TS1	V1010iS	V1010iSB
	UG440H-TH1D*1	UG440H-TS1D *1		
	UG440H-TH4	UG440H-TS4	V1010iSD	V1010iSBD
	UG440H-TH4D*1	UG440H-TS4D*1		

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

UG440H-TH
UG440H-TS

V1010iS

Hardware Specifications

Item		UG40	V10 Standard
Dimensions W x H x D (mm)	10.4-inch	303.8 x 231.0 x 69.0	303.8 x 231.0 x 53.8
Panel cut-out 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	TFT color
Display colors		65,536 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- cation I/F	Serial	D-Sub 9-pin x1　 : RS-232C / RS-422/485 Modular 8-pin x2 : RS-232C / RS-485	Same as on the left
	USB	USB-A x1, USB-B x1	USB-A x1, USB mini-B x1
	Ethernet	For model "-TH" only LAN x1: Standard equipment	LAN x1　: Standard equipment LAN2 x1 : Optional equipment *4
	Network	Communication unit: UG03I-x	Communication unit: CUR-xx
External storage device		CF card USB flash drive	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　LAN2 is supported only for models with "L" in the model number.

- Configuration Software

Use the configuration software V-SFT-6 for V10 and UG40.

Model	Software	OS	Transferring cable *1
UG40	V-SFT-6	Windows Vista (32bit, 64bit) Windows 7 (32bit, 64bit) Windows 8 (32bit, 64bit) Windows 8.1 (32bit, 64bit) Windows 10 (32bit, 64bit) Windows 11(64bit)	- USB cable (USB-B to USB-A) - LAN cable *2 - UG00C-T1 or V-CP (MJ to Dsub9) manufactured by Hakko Electronics Co., Ltd.
V10	V-SFT-6 Supported with version 6.2.0.0 or later		- USB cable (USB mini-B to USB-A) - LAN cable *3 - UG00C-T1 or V-CP (MJ to Dsub9) manufactured by Hakko Electronics Co., Ltd.

*1 The screen program can be transferred via SD card/USB flash drive when using V10 and CF card/USB flash drive when using UG40.
*2 Available for models with "-xH" in the model number or when UG03I-Ex is installed on the UG40 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 UG40 to V10 using V-SFT-6 (configuration software for V series).

- Conversion procedures

1. 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 [*.U4] in the [Open] dialog.
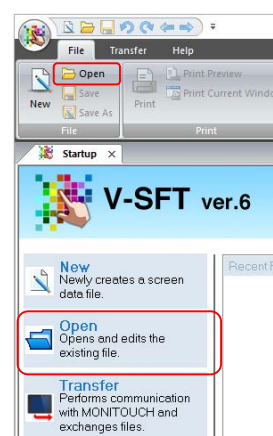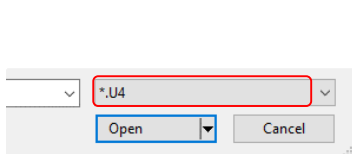
3. Select the UG40 series screen program file and click [Convert and open].
   The [Edit Model Selection] dialog appears.

4. Select the V10 series model and click [OK].
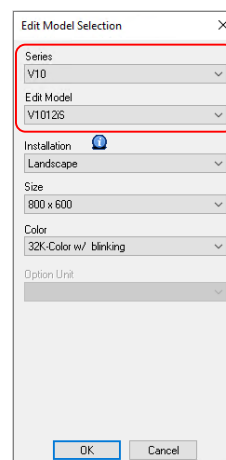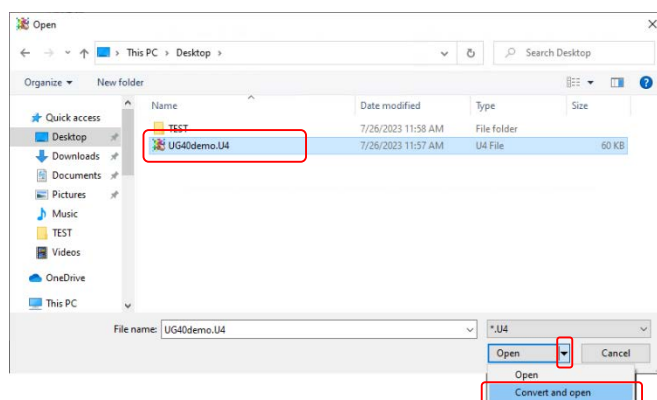
5. The dialog on the right may be displayed.
    When connecting to a printer：Click [Yes]
    When not connecting to a printer ：Click [No]
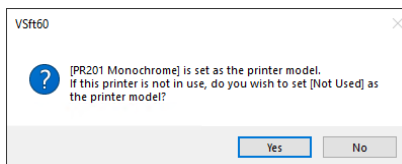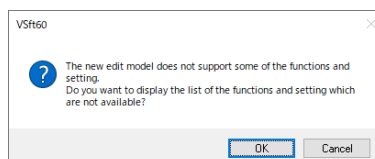
6. The dialog on the right may be displayed.
    Click [Yes].
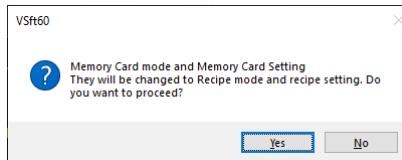
    * The data conversion in the
        storage device is required.
        Refer to the Memory Card Mode
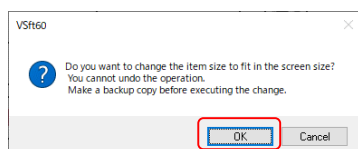   Conversion Manual.

7. 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]

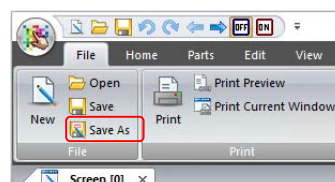   * If the layout is changed, adjust it
        manually.

8. 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 UG40 screen program before conversion, the warning does not
    affect the program and you can use it without modification.

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 UG40 screen program.
    Confirm the operation with the V10 series unit before use.