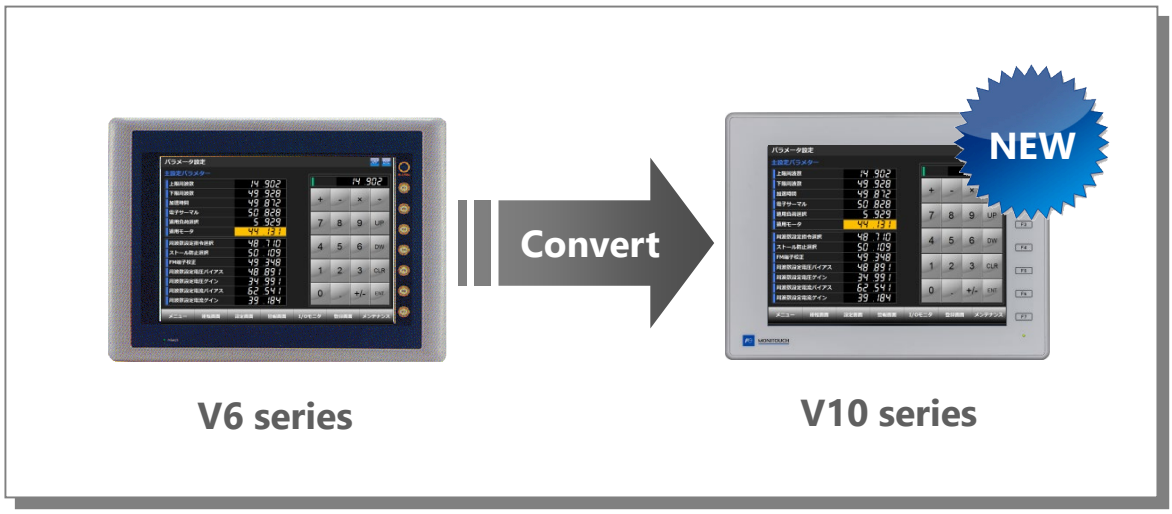
# MONITOUCH

## V10 Replacement Guidance

### [V6 series]

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## - List of Recommended Replacement Models

Following is a list of V10 replacement models for V6 series. Please check the model of V6 unit in use and select the recommended replacement model.

| Size | V6 model | | V10 model | | Refer to |
|---|---|---|---|---|---|
| | | | Light Gray | Black | |
| 12.1-inch SVGA | V612Txx | V612TxxM *1 | V1012iS | V1012iSB | Page 3 |
| | V612Cxx | V612CxxM *1 | | | |
| | V612TxxD | V612TxxMD *1 | V1012iSD | V1012iSBD | |
| | V612CxxD | V612CxxMD *1 | | | |
| 10.4-inch SVGA | V610Sxx | - | V1010iS | V1010iSB | |
| | V610SxxD | - | V1010iSD | V1010iSBD | |
| 10.4-inch VGA<br>With Video display<br>With RGB display<br>*2 | V610Tx1 | V610Tx1M *1 | V1010iS | V1010iSB | Page 4 |
| | V610Tx2 | - | | | |
| | V610Tx1D | V610Tx1MD *1 | V1010iSD | V1010iSBD | |
| | V610Tx2D | - | | | |
| 10.4-inch VGA<br>Without Video display<br>Without RGB display | V610Tx0 | V610Tx0M | If replaced with V10, the resolution will change from VGA to SVGA.<br>If the same resolution model is required, use the V9 Lite model. | | Page 5 |
| | V610Tx0D | V610Tx0MD *1 | | | |
| | V610Cx0 | V610Cx0M | | | |
| | V610Cx0D | V610Cx0MD *1 | | | |
| 7.7-inch VGA | V608C10 | - | | | |
| 7.7-inch VGA | V608CHx | - | Not available *3 | | |
| 8.9-inch DCGA | V609Ex0M *1 | - | There are no 8.9-inch models in the V10 series.<br>Use V9080iCD that supports "GD-80E/V609E Compatibility Setting". | | - |
| | V609Ex0MD *1 | - | | | |
| 5.7-inch QVGA | V606iT10 | V606iT10M *1 | There are no 5.7-inch models in the V10 series.<br>Use TS2060i which has the same size and resolution. | | - |
| | V606iC10 | V606iC10M *1 | | | |
| | V606iM10 | V606iM10M *1 | | | |
| | V606C10 | V606C10M *1 | | | |
| | V606M10 | V606M10M *1 | | | |
| | V606eC20 | V606eM20 | | | |

*1 The "M" 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.
*3 V608CHx is the handy model. There are no handy models in the V10 series. Use V808CH/V808iCH.
* **Models with few restrictions on use are described above list of recommended replacement models. It is also possible to replace V6 with V10 other than the recommended model. Select the model according to your system.**

## Model Description

V6□□□□□□□

**Screen size**
12: 12.1-inch
10: 10.4-inch
09: 8.9-inch
08: 7.7-inch
06: 5.7-inch

**Display specifications**
S: TFT color LCD SVGA (10.4-inch)
T: TFT color LCD SVGA (12.1-inch)
: TFT color LCD VGA (10.4-inch)
: TFT color LCD QVGA (5.7-inch)
C: STN color LCD SVGA (12.1-inch )
: STN color LCD VGA (10.4/7.7-inch)
: STN color LCD QVGA (5.7-inch)
M: STN monochrome LCD QVGA (5.7-inch)
E: EL DCGA (8.9-inch)

**Card I/F**
1: Without options
2: With card I/F

**Options**
0: Without options
1: Video input
2: RGB input

**Touch switch**
None: Analog resistance film
M: Matrix resistance film

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

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

**Extended communication I/F**
None: Without options
L: Additional wired LAN
R: Wireless LAN

**Front case color**
None: Light gray
B: Black

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

V608CH Handy model
7.7-inch, STN color LCD VGA, Analog resistance film, 24 VDC

## - V612/V610S → V10 Standard

V612T
V612C

V610S

V1012iS

V1010iS

### Hardware Specifications

| Item | | V612/V610S | V10 Standard |
|---|---|---|---|
| Dimensions W x H x D (mm) | 12.1-inch | 334.0 x 270.0 x 95.8 | 327.8 x 261.0 x 53.4 |
| | 10.4-inch | 310.0 x 240.0 x 92.3 | 303.8 x 231.0 x 53.8 |
| 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) | |
| 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<br>Matrix resistance film | Analog resistance film *2 |
| Communi-cation I/F | Serial | D-Sub 25-pin x1 : RS-232C / RS-422/485<br>Modular 8-pin x2 : RS-232C / RS-485 | D-Sub 9-pin x1 : RS-232C / RS-422/485 *3<br>Modular 8-pin x2 : RS-232C / RS-485 |
| | Network | Communication unit: CU-xx | Communication unit: CUR-xx |
| Video | | 4 CH *4 | Under development<br>Scheduled to be released in spring 2025. |
| External storage device | | Dedicated memory card *5 | SD/SDHC/SDXC card<br>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 Hakko Electronics' optional unit "TC485" was used, use "TC-D9".
*4 Only for V612xx1, V610xx1
*5 When using V612x2, V610x2 or Hakko Electronics' optional unit "CREC".

## - V610Tx1/V610Tx2 → V10 Standard

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

When using V610Tx1 to display video or using V610Tx2 to display RGB input, replace with V1010iS.

The screen resolution differs between V610T and V1010iS.
V610T: 640 x 480 → V1010iS: 800 x 600 dots

When converting the screen program from V6 to V10, use automatic resizing feature of V-SFT. If the layout is changed, adjust it manually.

V610Tx1
V610Tx2

V1010iS

+ Optional unit
Under development

### Hardware Specifications

| Item | | V610Tx1 | V610Tx2 | V10 Standard |
|---|---|---|---|---|
| Dimensions W x H x D (mm) | | 310.0 x 240.0 x 92.3 | | 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 | | 128 colors | | 16.7 million colors *1 |
| Resolution | | 640 x 480 dots | | 800 x 600 dots *2 |
| Touch switch | | Analog resistance film<br>Matrix resistance film | | Analog resistance film *3 |
| Communi-cation I/F | Serial | D-Sub 25-pin x1 : RS-232C / RS-422/485<br>Modular 8-pin x2 : RS-232C / RS-485 | | D-Sub 9-pin x1 : RS-232C / RS-422/485 *4<br>Modular 8-pin x2 : RS-232C / RS-485 |
| | Network | Communication unit: CU-xx | | Communication unit: CUR-xx |
| Video | | 4CH | - | Under development<br>Scheduled to be released in spring 2025. |
| RGB | | - | 1CH | Under development<br>Scheduled to be released in spring 2025. |
| External storage device | | Dedicated memory card *5 | | SD/SDHC/SDXC card<br>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 Hakko Electronics' optional unit "TC485" was used, use "TC-D9".
*5 When using V610T21, V610T22 or Hakko Electronics' optional unit "CREC".

## - V610Tx0/V610C/V608C → V10 Standard

The screen resolution differs between V610Tx0/V610C/V608C and V10 Standard.
V6: 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 V6 to V10, use automatic resizing feature of V-SFT. If the layout is changed, adjust it manually.

### Recommended Replacement Models

| Size | V6 model | | V10 model | |
|---|---|---|---|---|
| | | | Light gray | Black |
| 10.4-inch VGA | V610Tx0 | V610Tx0M *1 | V1010iS | V1010iSB |
| | V610Cx0 | V610Cx0M *1 | | |
| | V610Tx0D | V610Tx0MD *1 | V1010iSD | V1010iSBD |
| | V610Cx0D | V610Cx0MD *1 | | |
| 7.7-inch VGA | V608C10 | - | V1008iSD | V1008iSBD |

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

V610Tx0
V610C

V608C

V1010iS

V1008iS

### Hardware Specifications

| Item | | V6 | V10 Standard |
|---|---|---|---|
| Dimensions 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 |
| | 7.7-inch | 230.0 x 175.0 x 66.1 | 235.0 x 180.0 x 48.7 |
| 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 |
| | 7.7-inch | 220.5(+0.5/-0) x 165.5(+0.5/-0) | |
| 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<br>Matrix resistance film | Analog resistance film *3 |
| Communi-cation I/F | Serial | D-Sub 25-pin x1 : RS-232C / RS-422/485<br>Modular 8-in x2 : RS-232C / RS-485 | D-Sub9-pin x1 : RS-232C / RS-422/485 *4<br>Modular 8-pin x2 : RS-232C / RS-485 |
| | Network | Communication unit: CU-xx | Communication unit: CUR-xx |
| External storage device | | Dedicated memory card *5 | SD/SDHC/SDXC card<br>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 Hakko Electronics' optional unit "TC485" was used, use "TC-D9".
*5 When using V610x2 or Hakko Electronics' optional unit "CREC".

## - Configuration Software

| Model | Software | OS | Transferring cable *1 |
|---|---|---|---|
| V6 | V-SFT-5 | Windows Vista (32bit, 64bit)<br>Windows 7 (32bit, 64bit)<br>Windows 8 (32bit, 64bit)<br>Windows 8.1 (32bit, 64bit)<br>Windows 10 (32bit, 64bit)<br>Windows 11(64bit) | - LAN cable *2<br>- V-CP (MJ to Dsub9)<br>manufactured by Hakko Electronics Co., Ltd. |
| V10 | V-SFT-6<br>Supported with version 6.2.0.0 or later | | - USB cable (USB mini-B to USB-A)<br>- LAN cable *3<br>- V-CP (MJ to Dsub9)<br>manufactured by Hakko Electronics Co., Ltd. |

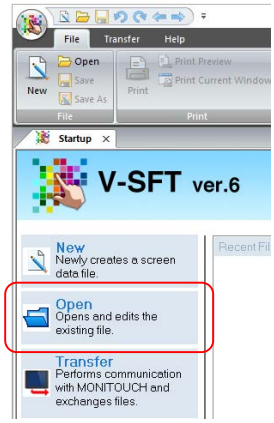
*1 The screen program can be transferred via SD card/USB flash drive when using V10 and dedicated memory card when using V6.
*2 Available when CU-03 is installed on the V6 unit.
*3 LAN connector of V10 supports Auto-MDIX. Straight/crossover cables can be used with or without HUB.

## - Screen Program Conversion

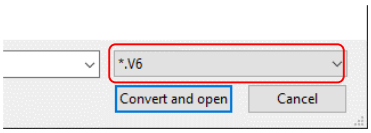
The screen program can be converted from V6 to V10 using V-SFT-6 (configuration software for V series).

### - 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.

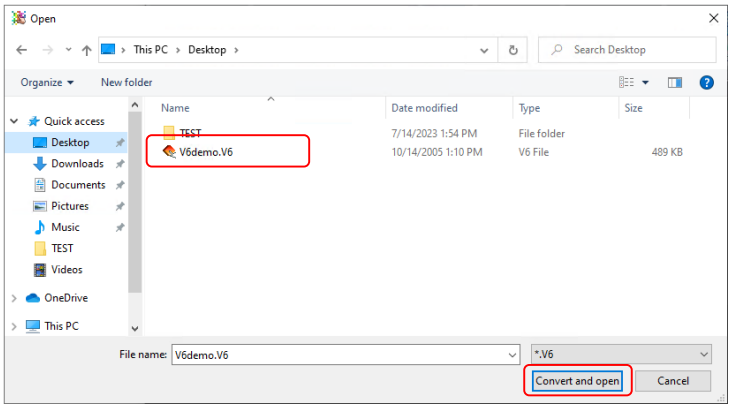


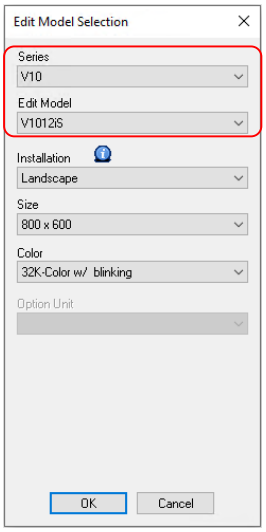

2. Change the file extension to [*.V6] in the [Open] dialog.



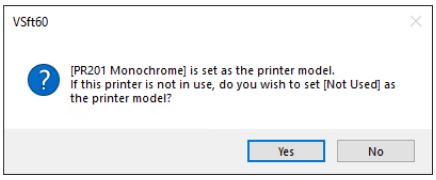

3. Select the V6 series screen program file and click [Convert and open].
   The [Edit Model Selection] dialog appears.

4. Select the V10 series model and click [OK].

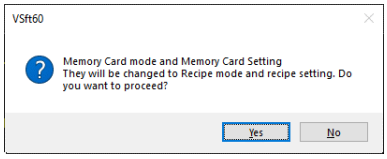


5. The dialog on the right may be displayed.
   When connecting to a printer：Click [Yes]
   When not connecting to a printer ：Click [No]

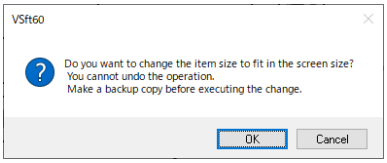



6. The dialog on the right may be displayed.
   Click [Yes].




* The data conversion in the storage device is required. Refer to the Memory Card Mode Conversion Manual.

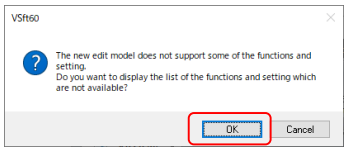
7. When converting the program with different resolution, the dialog shown to the right will appear.
   When enlarging parts: Click [Yes]
   When not enlarging parts: Click [No]

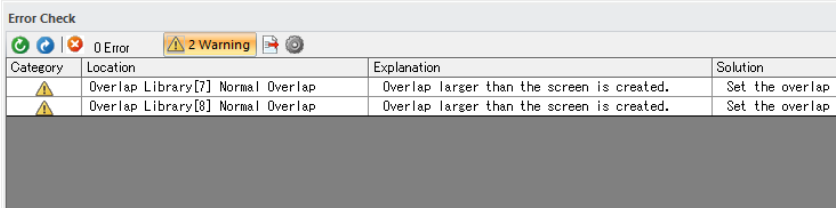



* If the layout is changed, adjust it manually.

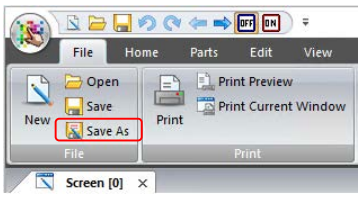
8. The following dialog may be displayed.
   Click [Yes] to display the error check window and check the functions and setting which are not available.
   Check [solution] and modify it.

   If the same warning message appears even in the V6 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 V6 screen program.**
**Confirm the operation with the V10 series unit before use.**