# MONITOUCH

## V10 Replacement Guidance
### [V9 series]
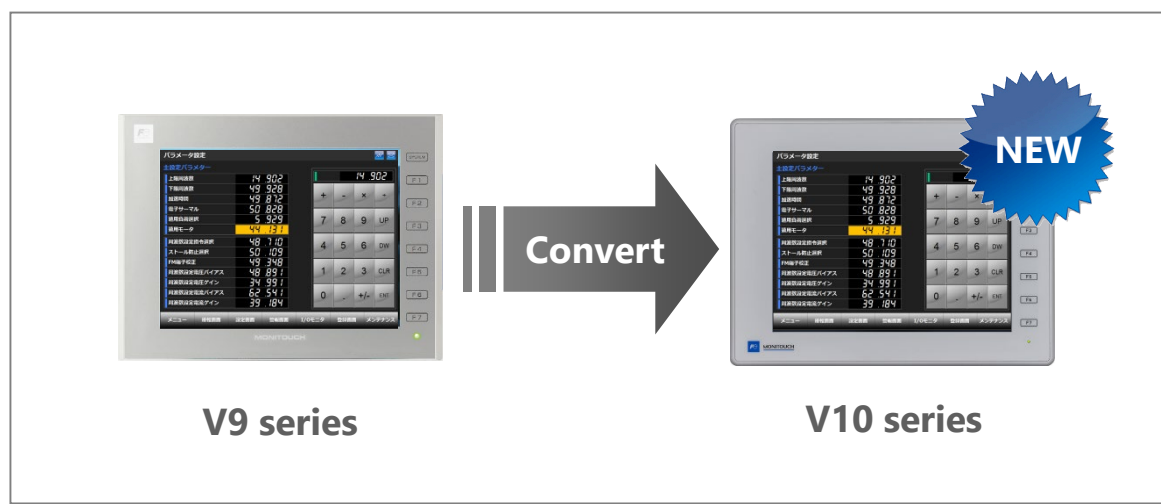


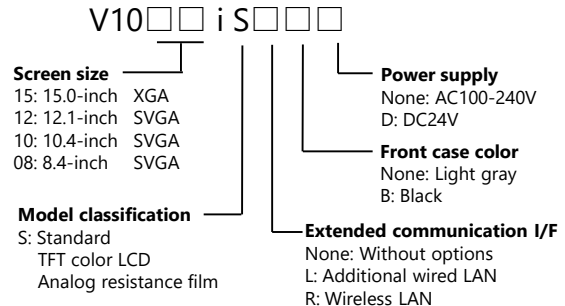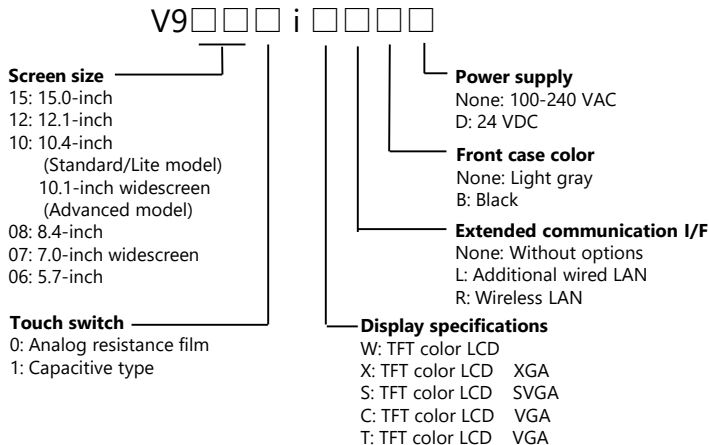**V9 series** → **Convert** → **V10 series** NEW

# - List of Recommended Replacement Models

Following is a list of V10 replacement models for V9 series. Please check the model of V9 unit in use and select the recommended replacement model.
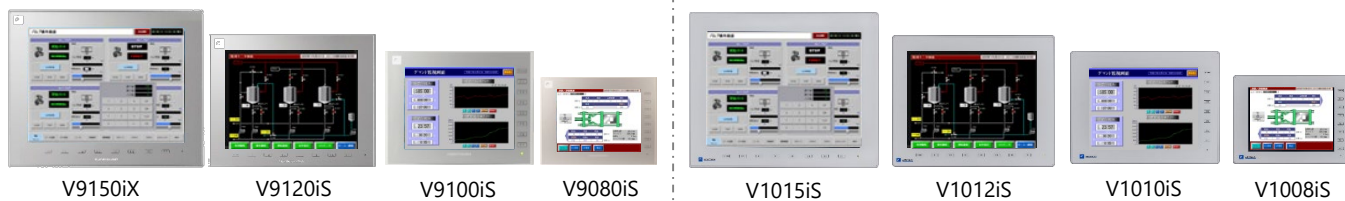
| Model classification | Size | V9 model | | V10 model | | Refer to |
| --- | --- | --- | --- | --- | --- | --- |
| | | Light Gray | Black | Light Gray | Black | |
| V9 Advanced | 10.1-inch widescreen | V910xiWRLD | - | There are no widescreen models in the V10 series. Continue to use the V9 Advanced model. | | - |
| | | V910xiWLD | - | | | |
| | 7.0-inch widescreen | V907xiWRLD | - | | | |
| | | V907xiWLD | - | | | |
| V9 Standard | 15.0-inch | V9150iX | - | V1015iS | V1015iSB | |
| | | V9150iXD | - | V1015iSD | V1015iSBD | |
| | | V9150iXLD | - | V1015iSLD | V1015iSLBD | |
| | | V9150iXRD | - | V1015iSRD | V1015iSRBD | |
| | 12.1-inch | V9120iS | V9120iSB | V1012iS | V1012iSB | |
| | | V9120iSD | V9120iSBD | V1012iSD | V1012iSBD | |
| | | V9120iSLD | V9120iSLBD | V1012iSLD | V1012iSLBD | |
| | | V9120iSRD | V9120iSRBD | V1012iSRD | V1012iSRBD | Page 3 |
| | 10.4-inch | V9100iS | V9100iSB | V1010iS | V1010iSB | |
| | | V9100iSD | V9100iSBD | V1010iSD | V1010iSBD | |
| | | V9100iSLD | V9100iSLBD | V1010iSLD | V1010iSLBD | |
| | | V9100iSRD | V9100iSRBD | V1010iSRD | V1010iSRBD | |
| | 8.4-inch | V9080iSD | V9080iSBD | V1008iSD | V1008iSBD | |
| | | V9080iSLD | V9080iSLBD | V1008iSLD | V1008iSLBD | |
| | | V9080iSRD | V9080iSRBD | V1008iSRD | V1008iSRBD | |
| V9 Lite | 10.4-inch | V9100iC | V9100iCB | There are no Lite models in the V10 series. If replaced with V10, the resolution will change from VGA to SVGA. If the same resolution model is required, continue to use the V9 Lite model. | | Page 4 |
| | | V9100iCD | V9100iCBD | | | |
| | 8.4-inch | V9080iCD | V9080iCBD | | | |
| | 5.7-inch | V9060iTD | V9060iTBD | | | |

\* Models with few restrictions on use are described above list of recommended replacement models. It is also possible to replace V9 with V10 other than the recommended model. Select the model according to your system.

## Model Description

V9□□□ i □□□□

Screen size
15: 15.0-inch
12: 12.1-inch
10: 10.4-inch
(Standard/Lite model)
10.1-inch widescreen
(Advanced model)
08: 8.4-inch
07: 7.0-inch widescreen
06: 5.7-inch

Touch switch
0: Analog resistance film
1: Capacitive type

Display specifications
W: TFT color LCD
X: TFT color LCD    XGA
S: TFT color LCD    SVGA
C: TFT color LCD    VGA
T: TFT color LCD    VGA

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

V10□□ i S□□□

Screen size
15: 15.0-inch    XGA
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: AC100-240V
D: DC24V

Front case color
None: Light gray
B: Black

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

## - V9 Standard → V10 Standard

V9150iX    V9120iS    V9100iS    V9080iS    V1015iS    V1012iS    V1010iS    V1008iS

## Hardware Specifications

| Item | | V9 Standard | V10 Standard |
|---|---|---|---|
| Dimensions W x H x D (mm) | 15.0-inch | 382.8 x 312.8 x 80.8 | 382.8 x 312.8 x 79.2 |
| | 12.1-inch | 327.8 x 261.0 x 54.9 | 327.8 x 261.0 x 53.4 |
| | 10.4-inch | 303.8 x 231.0 x 54.0 | 303.8 x 231.0 x 53.8 |
| | 8.4-inch | 235.0 x 180.0 x 48.9 | 235.0 x 180.0 x 48.7 |
| Panel cut-out W x H (mm) | 15.0-inch | 369.4(+0.5/-0) x 299.4(+0.5/-0) | Same as on the left |
| | 12.1-inch | 313.0(+0.5/-0) x 246.2(+0.5/-0) | |
| | 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 | | 16.7 million colors *1 | Same as on the left |
| Resolution | 15.0-inch | 1024 x 768 dots | Same as on the left |
| | 12.1/10.4/8.4 -inch | 800 x 600 dots | Same as on the left |
| Touch switch | | Analog resistance film | Same as on the left |
| 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 mini-B x1 | Same as on the left |
| | Ethernet | LAN x1 : Standard equipment  LAN2 x1 : Optional equipment *2 | Same as on the left *2 |
| | Wireless LAN | WLAN x1 : Optional equipment *2 | Same as on the left *2 |
| | Network | Communication unit: CUR-xx | Same as on the left |
| Audio output | | Standard equipment | Same as on the left |
| Video/RGB | | Optional unit  GUR-00 - 02, GUR-04, GUR-10 - 11 | Under development  Scheduled to be released in spring 2025. |
| External storage device | | SD/SDHC 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 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.
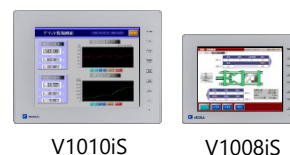
## - V9 Lite → V10 Standard

The screen resolution differs between V9 Lite and V10 Standard.
When converting the screen program from V9 Lite to V10 Standard, use automatic resizing feature of V-SFT. If the layout is changed, adjust it manually.
V10 does not offer the 5.7-inch model. When replacing V9060iTD with V10, enlarge the panel cut-out.

### Recommended Replacement Models

| Model classification | Sise | V9 model | | V10 model | |
|---|---|---|---|---|---|
| | | Light Gray | Black | Light Gray | Black |
| V9 Lite | 10.4-inch | V9100iC | V9100iCB | V1010iS | V1010iSB |
| | | V9100iCD | V9100iCBD | V1010iSD | V1010iSBD |
| | 8.4-inch | V9080iCD | V9080iCBD | V1008iSD | V1008iSBD |
| | 5.7-inch | V9060iTD | V9060iTBD | Not available Select from above. | |

V9100iC    V9080iC    V9060iT

V1010iS    V1008iS

### Hardware Specifications

| Item | | V9 Lite | V10 Standard |
|---|---|---|---|
| Dimensions W x H x D (mm) | 10.4-inch | 303.8 x 231.0 x 54.0 | 303.8 x 231.0 x 53.8 |
| | 8.4-inch | 235.0 x 180.0 x 48.9 | 235.0 x 180.0 x 48.7 |
| | 5.7-inch | 182.5 x 138.8 x 53.0 | Not available *4 |
| 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 |
| | 8.4-inch | 220.5(+0.5/-0) x 165.5(+0.5/-0) | |
| | 5.7-inch | 174.0(+0.5/-0) x 131.0(+0.5/-0) | Not available *4 |
| Display device | | TFT color | Same as on the left |
| Display colors | | 16.7 million colors *1 , 262 thousand colors *1 | 16.7 million colors *1 |
| Resolution | | 640 x 480 dots | 800 x 600 dots *5 |
| Touch switch | | Analog resistance film | Same as on the left |
| Communi-cation I/F | Serial 10.4/8.4-inch | D-Sub 9-pin x1     : RS-232C / RS-422/485 Modular 8-pin x2  : RS-232C / RS-485 | Same as on the left |
| | Serial 5.7-inch | D-Sub 9-pin x1 *2 : RS-232C / RS-422/485 Modular 8-pin x2  : RS-232C / RS-422/485 *3 | D-Sub 9-pin x1     : RS-232C / RS-422/485 Modular 8-pin x2  : RS-232C / RS-485 *3 |
| | USB | USB-A x1, USB mini-B x1 | Same as on the left |
| | Ethernet | LAN x1  : Standard equipment | LAN x1  : Standard equipment LAN2 x1 : Optional equipment *6 |
| | Network | Communication unit: CUR-xx | Same as on the left |
| External storage device | | SD/SDHC card USB flash drive | SD/SDHC/SDXC card USB flash drive |

*1  Only for displaying "picture" images, 3D parts and remote desktop window. All other content is displayed using 65,536 colors.
*2  Supported only when using optional unit "DUR-00" when using 5.7-inch model.
*3  Only MJ2 of the 5.7 inch model supports RS-422.  MJ2 of V10 does not support the RS-422 communication. Change to the RS-422 connection with CN1.
*4  V10 does not offer the 5.7-inch model. When replacing with V10, enlarge the panel cut-out.
*5  The resolution is SVGA. When converting the screen program, use automatic resizing feature. If the layout is changed, adjust it manually.
*6  LAN2 is supported only for models with "L" in the model number.

# - Configuration Software

Use the configuration software V-SFT-6 for V10 and V9.

| Model | Software | OS | Transferring cable *1 |
|-------|----------|-----|----------------------|
| V9 | 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 mini-B to USB-A) |
| V10 | V-SFT-6 Supported with version 6.2.0.0 or later | | - LAN cable *2 - V-CP (MJ to Dsub9) manufactured by Hakko Electronics Co., Ltd. |

*1  The screen program can be transferred via SD card/USB flash drive.
*2  LAN connector of V10/V9 supports Auto-MDIX. Straight/crossover cables can be used with or without HUB.

# - Screen Program Conversion

The screen program can be converted from V9 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 [*.V9] in the [Open] dialog.
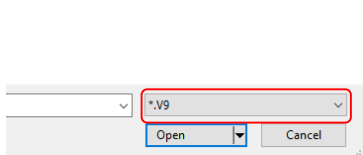
3. Select the V9 series screen program file and click [Open].
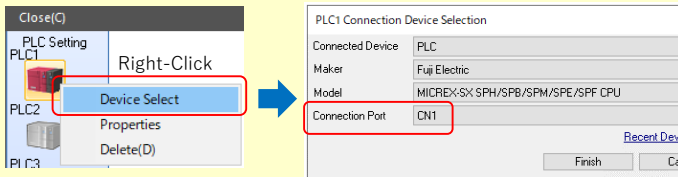   The V9 series screen program is opened.
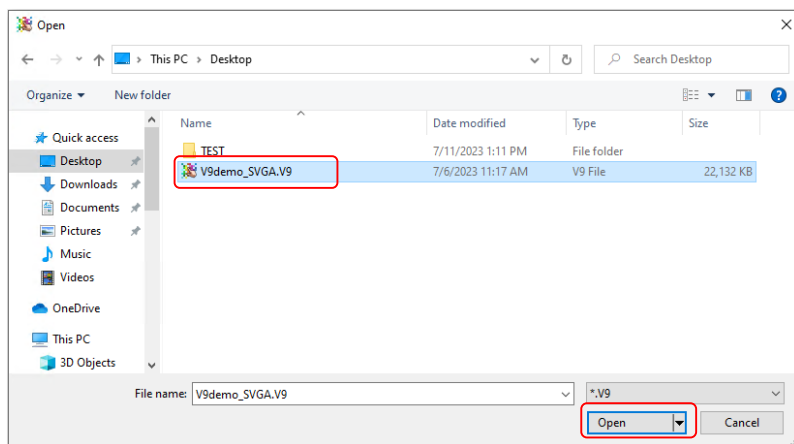
4. Click [System Setting] → [Edit Model Selection].
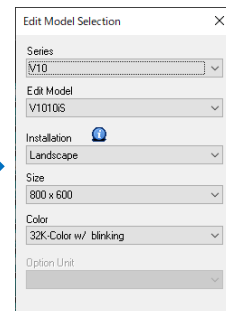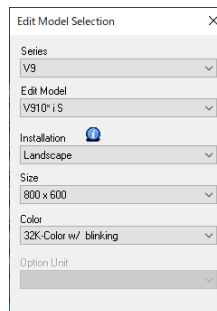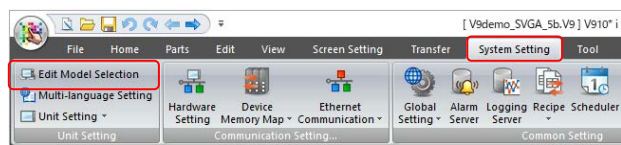
5. Select the V10 series model and click [OK].

**When connecting RS-422 (4-wire system) to MJ2 of V906**

MJ2 of the V10 series unit does not support RS-422 (4-wire system) connection. Change [Connection Port] to [CN1] in [System Setting] → [Hardware Setting] → [Connection Device Selection].
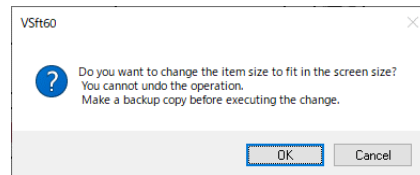
When using the PLC model with a fixed MJ2 connection (RS-422/4-wire system), [Confirmation: Change target port] is displayed. Click [OK] and the port will be change automatically.
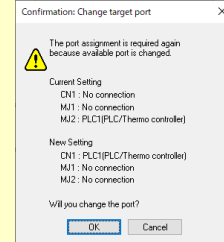


6. When converting the program with different resolution, the dialog shown to the right will appear.
   When enlarging parts: Click [Yes]
   When not enlarging parts: Click [No]



7. 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 V9 screen program before conversion, the warning does not affect the program and you can use it without modification.
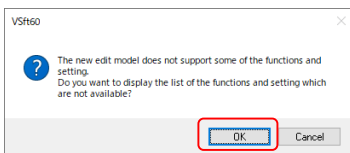


8. The screen program converted to V10 series is displayed on V-SFT. Name and save the file.



   **The converted V10 screen program cannot be converted back to the V9 screen program.**
   **Confirm the operation with the V10 series unit before use.**

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