

FP-3900T Series Installation Guide

Caution

Be sure to read the "Warning/Caution Information" on the attached sheet before using the product.

Package Contents

- FP unit (1)
- Installation Guide (1) (this manual)
- Warning/Caution Information (1)
- Installation Gasket (1) (attached to the FP unit)
- Installation Fasteners (4/set, 3sets)



- USB Cable Clamp (1)



- AC Power Connector (1) (attached to the FP unit)



This unit has been carefully packed, with special attention to quality. However, should you find anything damaged or missing, please contact your local FP distributor immediately.

Required software/Reference manual

The FP-3900T unit needs the following software for operation. As FP user manual, provided by PDF media, describes its details, download the manual below and get the further information. Visit Pro-face website below and get both software and reference manual.

(URL:<http://www.pro-face.com/otasuke/>)

- Software : Mouse Emulation Software
- Manual : FP3000 Series User Manual

IMPORTANT

- Before you begin to use the touch panel, you need to adjust (calibrate) it.
- For use of USB for sending touch data, the number of the calibration point of mouse emulation software should be 9. (The initial setting is 4.)
If you do not change the setting values, the touch position may not be accurate, a little off the point.
- If the touch panel coordinates slip, it is recommended to make calibration again.

Installation prerequisites for standards

For the detailed certification's information, refer to the Pro-face Home page.

<Cautions>

Be aware of the following items when building the FP into an end-use product:

- The rear face of the FP unit is not a part of an enclosure. This unit must be used as a built-in component of an end-use product that forms a UL/c-UL-compliant enclosure.
- For indoor use only.
- This unit should be installed in the front face of a metal panel.
- If this unit is installed so as to cool itself naturally, be sure to install it in a vertical panel. Also, be sure that the FP unit is mounted at least 100 mm away from any adjacent structures or equipment. If these requirements are not met, the heat generated by the FP unit's internal components may cause the unit to fail to meet UL/c-UL standard.
- For use on a flat surface of a Type 4X (Indoor Use Only) and/or Type 12 Enclosure.
- Type 4X (Indoor Use Only) and/or 12 Enclosure, when the hatch for Front USB Port is secured by screw.

Type 1 Enclosure, when the hatch for Front USB Port is open.(FP3900-T41-U only)

- Receivable signals are only from isolated secondary source.
- All interface ports (except for Front USB Connector (Type A)) are not intended to be directly connected to a signal source greater than 30 volts and available current greater than 5mA.

<Hazardous Locations -

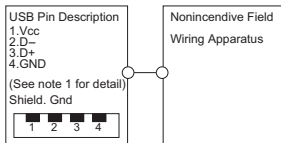
Compliance and Handling Cautions>

- Suitable for use in Class I, Division 2, Groups A, B, C, and D Hazardous Locations only.
- WARNING: Explosion hazard - substitution of components may impair suitability for Class I, Division 2.
- WARNING: Explosion hazard - do not disconnect equipment while the circuit is live or unless the area is known to be free of ignitable concentrations.

<Control Drawing of USB I/F on FP's Front Module>

The information below concerns the use of the USB I/F located on the FP unit's front modules used in Class I, Division 2 Groups A, B, C, and D hazardous locations (from Doc No. 35016429).

FP's Front Module



Notes:

- (1) Nonincendive Circuit Parameters:
Front USB I/F:
Voc = 5.0 V, Isc = 1.25 A,
Ca = 10 μ F, La = 16 μ H

- (2) Selected Associated Nonincendive Field Wiring Apparatus shall satisfy the following:

Nonincendive Field Wiring Apparatus	-	Front module of FP unit
Voc	\leq	Vmax
Isc	\leq	Imax
Ca	\geq	Ci+C cable
La	\geq	Li+L cable

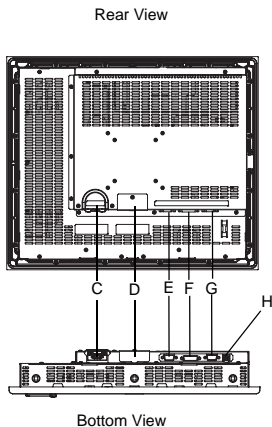
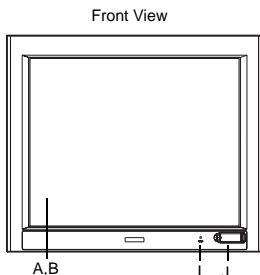
- (3) If the electrical parameters of the cable are unknown, the following values may be used:
Capacitance = 60pF/ft,
Inductive = 0.20 μ H/ft
- (4) Nonincendive Field Wiring must be installed in accordance with article 501.10(B) of the National Electrical Code ANSI/NFPA 70.
- (5) Nonincendive Field Wiring Apparatus shall not contain or be connected to another source of power.

CE Marking Notes

The FP-3900T Series is a CE marked product that conforms to EMC directives and Low Voltage directives.

For the detailed information, please be downloaded and refer the Declaration of Conformity from Pro-face Home Page.

Part Names



A: TFT Color LCD

Acts as a display monitor for your host.

B: Touch Panel

Allows you to switch screens or write data to the host.

C: Power Connector (Socket)

Provides the input and ground terminals for a power cable.

D: Setting Switch

By opening the cover, the Dip switches and slide switch are seen. Each switch can set a operation mode.

E: Analog RGB Connector

Connector for analog RGB interface

F: DVI-D Interface Connector

Connector for DVI-D interface

G: Serial Connector

Connector for serial (RS-232C) interface. Used for sending touch panel data to the host.

H: USB Connector (Type B)

Connector for USB interface. Used for sending touch panel data to the host or used as an upstream port for USB-HUB.

I: Front LED

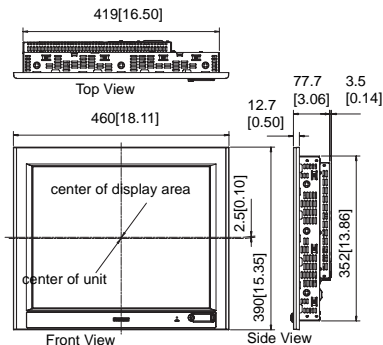
Used to indicate the condition of the power supply, a backlight burnout or image signal input.

J: Front USB Connector (Type A)(FP3900-T41-U only)

A downstream port for embedded USB-HUB in conformity with USB2.0/1.1 standard, which is used for connecting USB devices. Connect the upstream port of the USB-HUB (H:USB connector) to the Host PC for Front USB connector use.

Dimensions

Unit:
mm [in]



Dip Switches and Slide Switch

The Dip Switches and Slide Switch are located in the bottom of the FP unit. Loosen the screws of the cover with a Phillips head screwdriver and then remove the cover. After setting the dip switches and slide switches, reinstall the cover and screws with the screwdriver. The tightening torque for those screws is 0.5 ~ 0.6 N•m.

Only the settings when the power supply is turned on is effective to the Dip Switches and the Slide Switch. After changing the settings of the Dip Switches and the Slide Switch, be sure to restart your FP unit



SW1

Switch	Setting	
	SW1-1 Reserved (Always OFF)	SW1-5 Reserved (Always OFF)
	SW1-2 Display/Hide the OSD	SW1-6 Reserved (Always OFF)
	SW1-3 Reserved (Always OFF)	SW1-7 Reserved (Always OFF)
	SW1-4 Reserved (Always OFF)	SW1-8 Reserved (Always OFF)

- SW1-2 Dip Switch SW1-2 is used to display or hide the OSD.

To hide the OSD, set the switch to ON. To display the OSD, set the switch to OFF.
The default setting is OFF. (OSD is displayed.)

SW2

Switch	Setting
	Slide Switch is used to switch the data input/output (command control) method on the touch panel between USB and RS-232C (Serial). The default setting is RS-232C.

Interfaces

■ Analog RGB Interface

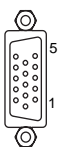
Input signal type	Analog RGB	
Input signal characteristic	Image signal : analog RGB	Synchronous signal : TTL level, negative true or positive true
	Scanning type : non-interlace	
Setting by OSD (On Screen Display)	<ul style="list-style-type: none"> •CONTRAST •H-POSITION •H-size •DIMMER(BACKLIGHT) •ALL RESET (DEFAULT) 	<ul style="list-style-type: none"> •BRIGHTNESS •V-POSITION •PHASE •SHARPNESS

The number of dots (pixels) displayed are as follows:

Size	H Sync. (kHz)	V Sync. (Hz)	Dot Clock (MHz)	Screen Resolution Expansion (H: Horizontal)(V: Vertical)	Display Resolution
640x400	31.469	70.000	25.175	x2 (H) x2.56 (V)	1280x1024
640x480	31.469	59.992	25.175	x2 (H) x2.13(V)	
640x480	35.000	66.670	30.240		
640x480	37.861	72.810	31.500		
640x480	37.500	75.000	31.500		
720x400 ^{*1}	31.469	70.000	28.320	x1.77 (H) x2.56(V)	
800x600	35.156	56.250	36.000	x1.6 (H) x1.7(V)	
800x600	37.879	60.317	40.000		
800x600	46.875	75.000	49.500		
1024x768	48.363	60.004	65.000	x1.25(H) x1.33(V)	
1024x768	56.476	70.069	75.000		
1024x768	60.023	75.029	78.750		
1280x1024	63.981	60.000	108.000	x1.0	
1280x1024	79.976	75.000	134.999		

*1 When you use this resolution, set "ON" for "720 x 400 Mode" in the OSD (On Screen Display) "System Settings".

Pin Assignments and Signal Names for Analog RGB

Pin No.	Signal Name	Pin No.	Signal Name	Pin No.	Signal Name	Pin Location
1	Analog R	6	Return R	11	Reserved	
2	Analog G	7	Return G	12	DDC DATA	
3	Analog B	8	Return B	13	H. SYNC	
4	Reserved	9	Reserved	14	V. SYNC	
5	Digital grounding	10	Digital grounding	15	DDC CLOCK	

Connector.....Mini Dsub 15 pin male
 Connector set screw#4-40 UNC
 Cable.....RGB cable manufactured by Pro-face.
 FP-CV02-45 <4.5m>

IMPORTANT

- If a cable other than the specified RGB cable is used, product performance cannot be guaranteed due to the possibility of noise interfering with the FP unit's operation.

■ DVI-D Interface

Input signal type	DVI-D	
Setting by OSD (On Screen Display)	<ul style="list-style-type: none"> •CONTRAST •DIMMER(BACKLIGHT) •ALL RESET (DEFAULT) 	<ul style="list-style-type: none"> •BRIGHTNESS •SHARPNESS

Display Area (FP-3900T Series)

Size	H Sync. (kHz)	V Sync. (Hz)	Dot Clock (MHz)	Screen Resolution Expansion (H: Horizontal)(V: Vertical)	Display Resolution
640x400	31.469	70.000	25.175	x2 (H) x2.56 (V)	1280x1024
640x480	31.469	59.992	25.175	x2 (H) x2.13(V)	
640x480	35.000	66.670	30.240		
640x480	37.861	72.810	31.500		
640x480	37.500	75.000	31.500		
720x400 ^{*1}	31.469	70.000	28.320	x1.77 (H) x2.56(V)	
800x600	35.156	56.250	36.000	x1.6 (H) x1.7(V)	
800x600	37.879	60.317	40.000		
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1024x768	48.363	60.004	65.000	x1.25(H) x1.33(V)	
1024x768	56.476	70.069	75.000		
1024x768	60.023	75.029	78.750		
1280x1024	63.981	60.000	108.000	x1.0	
1280x1024	79.976	75.000	134.999		

*1 When you use this resolution, set "ON" for "720 x 400 Mode" in the OSD (On Screen Display) "System Settings".

Pin Assignments and Signal Names for DVI-D

Pin	Signal Name	Pin	Signal Name	Pin	Signal Name	Pin Location
1	TMDS DATA2-	9	TMDS DATA1-	17	TMDS DATA0-	
2	TMDS DATA2+	10	TMDS DATA1+	18	TMDS DATA0+	
3	TMDS DATA2 SHIELD	11	TMDS DATA1 SHIELD	19	TMDS DATA0 SHIELD	
4	NC	12	NC	20	NC	
5	NC	13	NC	21	NC	
6	DDC Clock	14	NC	22	TMDS CLOCK SHIELD	
7	DDC Data	15	GND	23	TMDS CLOCK+	
8	NC	16	Hot Plug Detect	24	TMDS CLOCK-	

Connector.....DVI-D 24-pin male

Connector set screw#4-40 UNC

Cable.....DVI-D cable manufactured by Pro-face.
(FP-DV01-50 <5 m>, FP-DV01-100 <10 m>)

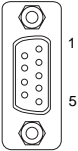
IMPORTANT

- If a cable other than the specified DVI-D cable is used, product performance cannot be guaranteed due to the possibility of noise interfering with the FP unit's operation.
- Only when the FP-3900T series is connected with PS-2000B or PL-3000B (Revision B or more), FP-DV01-100 can be used.
 - Please turn on PS-2000B's internal dipswitch 4 when use FP-DV01-100 with PS-2000B. (The resolution that can be displayed is 1024 x 768 only (XGA).)
Please turn off dipswitch 4 when use FP-DV01-50.
 - Please set PL-3000B's internal dipswitch 5 to ● sign side when you use FP-DV01-100 with PL-3000B.
We will recommend the resolution of PL-3000B to change to the maximum display resolution of FP additionally.
Please set it on the opposite side of ● sign when use FP-DV01-50.

Serial Interface

RS-232C Serial Interface	Baud rate : 9600 bps
	Data length : 8 bits
	Parity : None
	Stop bit : 1
	Flow Control: None

Pin Assignments and Signal Names for Serial Interface

Pin No.	Signal Name	Condition	Pin Location
1	CD	Carrier Detect* ¹	
2	RD	Receive Data (FP-> Host)	
3	SD	Send Data (FP<-Host)	
4	DTR	Data Terminal Ready* ¹	
5	GND	Ground	
6	DSR	Data Set Ready* ¹	
7	RS	Request to Send (FP<-Host)	
8	CS	Clear to Send (FP-> Host)	
9	NC	(Used internally)	

*1 The CD, DTR, and DSR are connected together inside of the FP.

Connector.....Dsub 9 pin female

Connector set screw#4-40 UNC

Cable.....SIO cable for FP manufactured by Pro-face.
(FP61V-IS00-O)

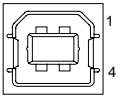
Concerning Signal Names

Signal names used for the serial interface on FP units are designed to match the pin order used on most PC serial interfaces, so that a straight cable can be used to connect the two. Therefore, connect each pin's signal to the same signal name on the PC side.

For example, pin #2 'RD' should be connected to the 'RD' input terminal on the PC's connector. Refer to the FP3000 Series User Manual's section "Cable Diagrams" for each signal's direction.

■ USB Interface (Type-B connector : Up-Stream Port)

Pin Assignments and Signal Names for USB Interface

Pin No.	Signal Name	Condition	Pin Location
1	USB1-5V	+5VIN	
2	USBD1(-)	USB data(-)	
3	USBD1(+)	USB data(+)	
4	GND	Ground	

Cable.....USB cable manufactured by Pro-face.
(FP-US00)

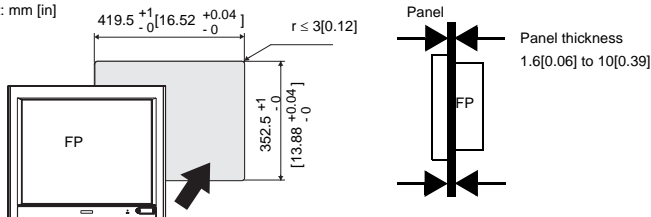
IMPORTANT

- If a cable other than the specified USB cable is used, product performance cannot be guaranteed due to the possibility of noise interfering with the FP unit's operation.

Installation

- (1) According to the Panel Cut size, make installation holes on the panel. Also, determine the panel thickness according to the panel thickness range with due consideration of panel strength.

Unit: mm [in]

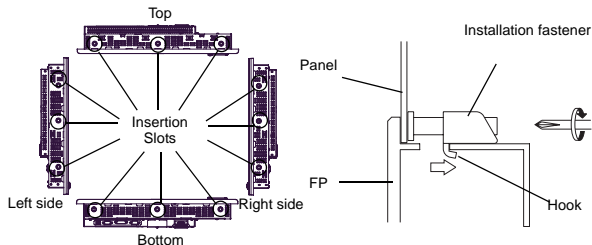


- (2) Check that FP has installation fasteners. Insert the FP from the front.

IMPORTANT

- Installation gasket must be used even though it is not necessary for its environment. For installation, refer to the FP3000 Series User Manual.
- Check that the installation panel or cabinet's surface is flat, in good condition and has no jagged edges. Also, if desired, metal reinforcing strips can be attached to the inside of the panel, near the Panel Cut, to increase the panel's strength.

- (3) The following figures show the twelve (12) fastener insertion slot locations. Insert each fastener's hook into the slot and tighten it with a screwdriver.



IMPORTANT

- Tightening the screws with too much force can damage the FP unit's case.
- The necessary torque is 0.8 N•m.

Wiring

WARNING

- To avoid an electric shock, when connecting the FP's power cord terminals to the power terminal block, confirm that the FP's power supply is completely turned OFF, via a breaker, or similar unit.
- To avoid the dangers of fire, electric hazards and equipment damage, be sure to use only the specified voltage when operating the FP.
- Since there is no power switch on the FP unit, be sure to attach a breaker-type switch to its power cord.

■ Electrical Specification

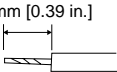
Item		Specification
Power Supply	Rated Voltage	AC100V ~ AC240V
	Allowable Voltage	AC85V ~ AC264V
	Rated Frequency	50 / 60HZ
	Allowable Frequency Range	40Hz - 72Hz
	Allowable Voltage Drop	1 cycle (Max.) (Voltage drop interval must be 1s or more.)
	Current Consumption	AC100V 1.1A or less (TYP 0.75A) AC240V 0.7A or less (TYP 0.44A)
	In-Rush Current	60A (Max.)
Voltage Endurance		AC1500V 20mA for 1 minute (between charging and FG terminals)
Insulation Resistance		DC500V 10M Ω (Min.) (between charging and FG terminals)

■ Environmental Specification

Item	Specification
Surrounding Air Temperature	0 ~ 50°C (The panel should not incline more than 30°)
Storage Temperature	-20 ~ +60°C
Ambient Humidity	10 ~ 90%RH
Storage Humidity	(No condensation, Wet bulb temperature: 39°C max.)
Air Purity (Dust)	0.1mg/m ³ (Max.) (No electrically conductive dust is allowed)
Pollution Degree	For use in Pollution Degree 2 environment

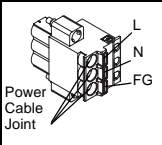
■ Power Cord Specifications

Use copper conductors only.

Power Cord Diameter	0.75mm ² to 2.5mm ² (18AWG to 12 AWG)
Conductor Type	Simple or Twisted Wire ¹
Conductor Length	10mm [0.39 in.] 

- *1 If the Conductor's end (individual) wires are not twisted correctly, the end wires may either short against each other, or against an electrode.

■ Power connector specification

	L	AC Input Terminal- live line
	N	AC Input Terminal- neutral line
	FG	Ground Terminal connected to the FP chassis

NOTE

- Kind of power cord is FKC 2,5/3-STF-5,08 which are Phoenix Contact products.

Use the following wiring for FP. Those are Phoenix Contact products.

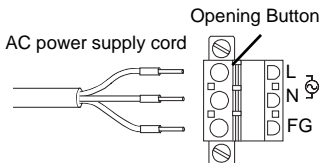
Recommended Drivers	SZS 0.6X3.5 (1205053)
Recommended stick end terminal	AI 0.75-10GY(3201288) AI 1-10RD(3200182) AI 1.5-10BK(3200195) AI 2.5-12BU(3200962)
Crimp tool for recommended stick end terminal	CRIMPFOX ZA 3 (1201882)

■ Connecting the Power Cord

When connecting the AC type power cord, be sure to follow the procedures given below.

- Confirm that the power cord is unplugged from the power supply.
- Push the Opening button by a small and flat screw driver to open the desired pin hole.

- Insert each pin terminal into its each hole. Release the Opening button to clamp the pin place.



- After inserting all three pins, insert the Power Plug into the Power Connector at FP. Fix the plug with two(2) minus screws.

IMPORTANT

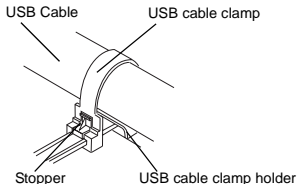
- The torque required to tighten these screws is 0.5 to 0.6N•m.
- To prevent the possibility of a terminal short, use a pin terminal that has an insulating sleeve.

Using the USB Cable Clamp

■ USB Cable Clamp Attachment Procedure

◆ Installation to USB cable

- Connect the USB cable to the connector.
- Insert the cable clamp into the cable clamp holder as shown in the following figure, and tighten the clamp until the cable is secured in place.



◆ USB Cable Clamp Removal Feature

- (1) Push in the cable clamp's stopper until the cable clamp is unlocked, then remove the clamp.
- (2) Disconnect the USB cable.

Power Supply Cautions

Please pay special attention to the following instructions when connecting the power cord terminals to the FP unit.

- If the power supply voltage exceeds the FP unit's specified range, connect a voltage transformer.
- Between the line and the ground, be sure to use a low noise power supply. If there is still an excessive amount of noise, connect a noise reducing transformer.
- Input and Output signal lines must be separated from the power control cables for operational circuits.
- The FP unit's power supply cord should not be bundled with or kept close to main circuit lines (high voltage, high current), or input/output signal lines.
- Connect a surge absorber to handle power surges.
- To reduce noise, make the power cord as short as possible.
- The temperature rating of field installed conductors: 75 °C only.

Grounding Caution

When attaching a wire to the FP unit's rear face FG terminal, (on the AC Connector), be sure to create an exclusive ground. (Use a grounding resistance of 100Ω, a wire of 2mm² or thicker, or your country's applicable standard.)

Input/Output Signal Line Cautions

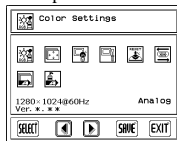
- All FP Input and Output signal lines must be separated from all operating circuit (power) cables.
- If this is not possible, use a shielded cable and ground the shield.

Calibration of OSD Display Position















■ OSD Functions

You can operate the FP screen menus via the touch panel, and even if FP is operating, adjust screen image display to a minute level. The feature is called OSD (On Screen Display). The items that can be set with OSD and the functions are shown.

Example of OSD screen



"Ver.*.*" indicates the version of the OSD.

Item	Function	
 Color Settings	Adjusts the contrast and the brightness.	
 Screen Settings	Adjusts the display position of the screen.	
 Custom Display	Adjusts Sharpness and the backlight brightness.	
 System Settings	Changes settings such as activating the click sound.	
 All Reset	Resets the current OSD value to the default value.	
 Input Source	Switches Analog RGB and DVI-D.	
 Auto Adjust	Automatically adjusts the display position of the screen. (Analog RGB only)	
 Auto Gain	Automatically adjusts the contrast and the brightness. (Analog RGB only)	
 ESC	ESC	Cancels the setting and returns to the upper level.
 SET	SET	Applies the setting and returns to the upper level.
 Arrow KEY	Arrow KEY	Changes the selection.
 SELECT	SELECT	Selects icons or items.
 SAVE	SAVE	Saves the current value and quits the OSD.
 EXIT	EXIT	Quits the OSD.




Starting the OSD

To start the OSD and enter OSD mode, press the three corners of the touch panel in turn (upper left, upper right, and lower right) within 5 seconds. In OSD mode, the setting screen is displayed in the center of the screen. In this mode, the touch panel cannot be used to export data to external devices unless the settings for the OSD are completed.

NOTE

- OSD is not displayed when a SW 1-2 is ON.

Using the OSD

Icons on the screen are used to operate the OSD. After the OSD start-up, the top menu displays. Touching the icon you want to adjust displays its submenu or setting change screen. In the setting change screen,  icons are used to change the setting. To apply the setting, press the  button. Press the  button to save the defined settings.

Quitting the OSD

To quit the OSD, press the  or  button in the top menu or leave the OSD as it is for at least 30 seconds.

IMPORTANT

- In the OSD, pressing the **SET** button applies the set value and enables the setting. The set value won't be canceled unless the power is turned OFF or the value is reset.
If the power is turned OFF without saving the set value, that data will disappear. The last saved data will be read into the system when the FP starts. To enable the changed value, be sure to press the **SAVE** button.
- All the setting values, even though in process of the OSD settings, will be retained in condition of letting the OSD leave more than 30 seconds or by pressing the **EXIT** button. The OSD will keep those values and make them effective until power-off or a Reset command input.

Top Main



Color Settings



Selection of the change item



Adjustment button

- Contrast
- R.Contrast
- G.Contrast
- B.Contrast
- Brightness



Applies the setting and then returns to the top menu.



Cancels the setting and then returns to the top menu.



Screen Settings



Selection of the change item



Adjustment button

- H.Position (Analog RGB only)
- V.Position (Analog RGB only)
- H.size (Analog RGB only)
- Phase (Analog RGB only)
- Display Clock Clock for output to TFT-color display can be finely adjusted according to 9 levels. (Default: 50)

Please use to the default value normally.
Applies the setting and then returns to the top menu.

Cancels the setting and then returns to the top menu.



Custom Display



Selection of the change item



Adjustment button

- Sharpness
- Dimmer
- Auto Adjust Enable
- OSD Transparent



Applies the setting and then returns to the top menu.



Cancels the setting and then returns to the top menu.



System Settings



Selection of the change item



Adjustment button

Click Tone

Enables/disables the click sound. With this parameter, the sound level can also be adjusted.

(Default value: OFF <Click sound disabled>)

720x400 Mode

When an input data resolution of 720 x 400 is used in the VGA text mode, set this parameter to ON. For other resolutions, set this parameter to OFF.

(Default: ON)

Auto off Disp

Enables/disables the screen display Auto OFF function and sets the time when the Auto OFF function is enabled.

(Default: OFF <Auto OFF function disabled>)

The Auto OFF function automatically turns off the display to prevent the screen from burning out when the touch panel is not used for some period of time. With this parameter, you can set the time interval to turn off the screen display (how much time passes before the screen display is turned off) when the touch panel is not used. If the touch panel is not touched over the set time, the backlight will automatically turn off.

Select the time period from 1 min, 3 min, 5 min, 10 min, and OFF (Auto OFF function disabled).

BL Alarm

Enables/disables the Backlight burnout detect function. (Default: ON)

When a burned-out backlight is detected, the status LED flashes alternately green and red, or a steady orange. Touch-operation will be disabled when the backlight burns out, which prevents the FP from sending input signals to the PLC.

IMPORTANT

- Normally, the FP unit detects a backlight burnout by monitoring the backlight's current flow, however, the FP may fail to detect this condition, depending on the type of backlight problem.

Detect 2-Point Touch

Enables to halt the data output procedure when two points of the touch panel are pressed.

(Default: OFF <Disable>)

IMPORTANT

- When doing the touch operation on a screen like the desktop of Windows®, disable this function.
- Depending on the conditions, it may not be able to be detected that the two points were pressed.

Power on Buzzer

Enables/disables the buzzer sound in turning on the power.

(Default: ON <Buzzer sounds enabled>)

USB Touch Panel ID

Set the touch panel ID number using the number 0 to 3, when connecting to USB. (Default: 0)



Applies the setting and then returns to the top menu.



Cancels the setting and then returns to the top menu.



All Reset



Resets all the settings and then returns to the top menu.



Cancels the setting and then returns to the top menu.



Input Source



Switches Analog RGB and DVI-D, and quits the OSD.



Cancels the setting and then returns to the top menu.



Auto Adjust (Analog RGB only)



Applies the setting and then returns to the top menu.



Cancels the setting and then returns to the top menu.

IMPORTANT

- Be sure to perform the auto adjust while things except that black are shown on sides of the display.



Auto Gain (Analog RGB only)



Applies the setting and then returns to the top menu.



Cancels the setting and then returns to the top menu.

IMPORTANT

- Be sure to perform the auto gain control when the screen has both 100% black and 100% white areas displayed.



Icon decision



Icon selection



Saves the setting and quits the OSD. Saves all the adjusted settings in the EEPROM.



End of OSD

Note

Regardless of the above clause, Digital Electronics Corporation shall not be held responsible for any damages or third-party claims for damages or losses resulting from the use of this product.

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The information in this document is subject to change without notice.