

Panel Mounted LVDS&DVI-D Inputs Supported  
**FLAT PANEL DISPLAY 70 Series**



Model	Screen size	Number of pixels	Number of colors
FPD-S71VT-DC1	6.5 inches	640 x 480 dots	262,144 colors
FPD-L71ST-DC1	12.1 inches	800 x 600 dots	262,144 colors
FPD-H71XT-DC1	15.0 inches	1024 x 768 dots	262,144 colors

\* Specifications, color and design of the products are subject to change without notice.

**Features**

**Measurement and Upload**

The product measures data with an external sensor and uploads them to the Cloud server.

**LVDS and DVI-D inputs supported panel mount TFT LCD display**  
LVDS and DVI-D inputs, that are less affected by the interference of noise, are supported for host computer connection. Because of the digital signal input, up to 5 m of cable length is available. The video signal and touch panel signal can be connected with one cable depending on the host PC to be connected.

In addition, the front part of the product has adopted a lightweight aluminum material.

**Touch panel enables keyboard-less operation.**

These products have analog touch panel enabling mouse emulation using driver software.

Touch panel is available via RS-232C (Built-in video cable) or USB connection.

**The panel attachment size compatible with IPC-DT60(Panel mounted 61) series**

Because its panel attachment is compatible with the predecessor IPC-DT60(Panel mounted 61) series, they are transposable.

**Front side in IP65-rated dustproof/drip-proof structure**

Front side in IP65-rated dustproof/drip-proof structure

**AC adapter, stand and connection cable is available as option.**

An optional AC adapter (IPC-ACAP12-02), stand (IPC-SND-03) and connection cable is available to run the display from the AC power supply, to use as a desktop display and for connection to the host computer.

\* For more details on host computer or option of this product, contact your retailer.

These products are two inputs (LVDS or DVI-D sign) compatible, panel-mounted, TFT LCD display unit for use with host computers such as the CONTEC IPC series and SBCs (single board computers).

Touch panel is available via RS-232C (Built-in video cable) or USB connection.

Because its panel attachment is compatible with the predecessor IPC-DT60(Panel mounted 61) series, they are transposable.

- \* The contents in this document are subject to change without notice.
- \* Visit the CONTEC website to check the latest details in the document.
- \* Visit the CONTEC website to check the latest OS.
- \* The information in the data sheets is as of July, 2020.

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**Specifications**

**Function specifications**

Item	Specifications		
	FPD-S71VT-DC1	FPD-L71ST-DC1	FPD-H71XT-DC1
<b>Screen</b>			
Assembly type	Panel mounted, desktop *1		
Screen size	6.5 inches	12.1 inches	15.0 inches
Number of pixels	640 x 480 dots	800 x 600 dots	1024 x 768 dots
Display type	TFT Color LCD		
Number of colors	262,144 colors		
Brightness control	Adjustment using the front switch or software control from the host computer		
Backlight control	Can be turned on or off by a front switch or via software control from the host computer.		
Display interface	LVDS input (26 pin half pitch connector) DVI-D input (24 pin DVI (Female) connector)		
Input signal specification	LVDS input	26 pin half pitch connector *2	
	DVI-D input	Digital RGB (complies with TMDS) *2	
Cable length which recommends	5m or less		
<b>Touch panel</b>			
Resolution	4096 x 4096		
Detection method	Resistive-layer analog method		
Touch life expectancy	One million repeated touches (as tested by mechanical touching under 300g of force at a rate of two presses per second)		
Touch panel interface	Connect to the host computer using either USB or RS-232C. RS-232C : built-in LVDS/DVI Connector USB: USB1.1-compliant, TypeB Connector		
Touch panel driver *3 (download)	Compatible with Windows XP or later		
<b>Power supply input part</b>			
Power supply connector	4-pin connector for +12 - 24VDC power supply		
AC adapter jack	Corresponding to +12 (±5%) VDC output AC adapter		
Input power supply voltage	+12V-24VDC±5%		
Consumption current *1	0.6A (Max)	1.4A (Max)	0.9A (Max)
Consumption current (power save mode) *4	0.4A (Max)		

\*1 Optional desk stand IPC-SND-03 allowing desktop installation

\*2 Using a cable longer than 5 m may reduce the image quality. The cable should be as short as possible as degradation. the image quality may result even when the cable is 5 m or shorter depending on the type of host computer or cable.

\*3 For more details on the supported OS, or to download the latest version of software, visit the CONTEC Web site.

\*4 When +12VDC is input.

Installation Environment Requirements

Item	Specifications		
	FPD-S71VT-DC1	FPD-L71ST-DC1	FPD-H71XT-DC1
<b>Environment</b>			
Operating temperature *1	0 - 50°C (0 - 40°C when using an AC adapter)		
Storage temperature	-10 - 60°C		
Operating humidity *2	10 - 90%RH (No condensation) 10 - 85%RH (No condensation) (When using the AC adapter)		
Floating dust particles	Not to be excessive		
Corrosive gas	None		
Noise resistance	Line noise	AC line: 2 kV *3, Signal line: 1 kV (IEC1000-4-4Level3, EN61000-4-4Level3)	
	Electrostatic withstanding voltages	Contact : 4 kV (IEC1000-4-2Level2, EN61000-4-2Level2) Airborne : 8 kV (IEC1000-4-2Level3, EN61000-4-2Level3)	
Vibration resistance	10 - 57 Hz/Single-side amplitude or 0.075 mm 57 - 150 Hz/1.0 G in the X/Y/Z directions for 40 minutes each (Conforming to JIS C0040 and IEC68-2-6)		
Shock resistance	10 G in the X/Y/Z directions for 11 ms; Half-sine wave (Conforming to JIS C0041 and IEC68-2-27)		
<b>Structure</b>			
Physical dimension (mm)	210(W) x 40(D) x 166(H)	316(W) x 46.5(D) x 256(H)	373(W) x 46(D) x 304(H)
Panel cut dimensions (mm)	199.0(W) x 155.0(H)	303.0(W) x 243.0(H)	358.0(W) x 289.0(H)
Mountable panel thickness	1.6mm - 7mm		
Weight	1.3kg	2.8kg	3.6kg
Waterproofing and dust-proofing	Front part conforming to IP65		
Standard	VCCI classA		

- \*1 In the installed angle which is recommended.
- \*2 Wet-bulb temperature 38°C or lower.
- \*3 When using the optional AC adapter IPC-ACAP12-04A.

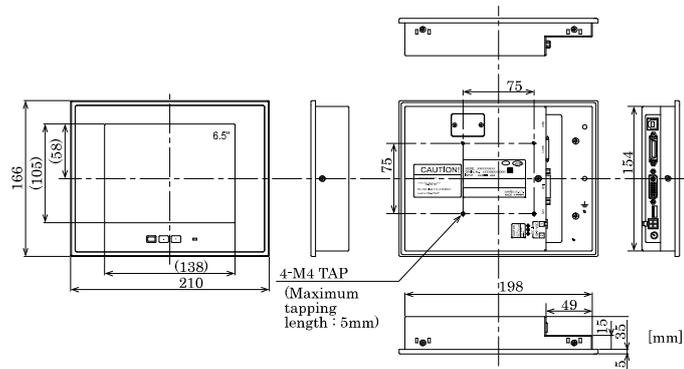
Packing List

Name	FPD-S71VT-DC1	FPD-L71ST-DC1	FPD-H71XT-DC1
	Pcs.	Pcs.	Pcs.
Flat panel display	1	1	1
Three-point sems screws (M3 x 6)	1	1	1
Power supply connector complete set (Contact...4, housing...1)	1 set	1 set	1 set
Clamp for preventing cables from being disconnected	2	1	3
The attachment fittings	4	6	8
AC adapter jack fixed clamp	1	1	1
Serial number label	1	1	1
IPC Precaution List	1	1	1
Waterproof packing Precaution List	1	1	1
Product guide	1	1	1

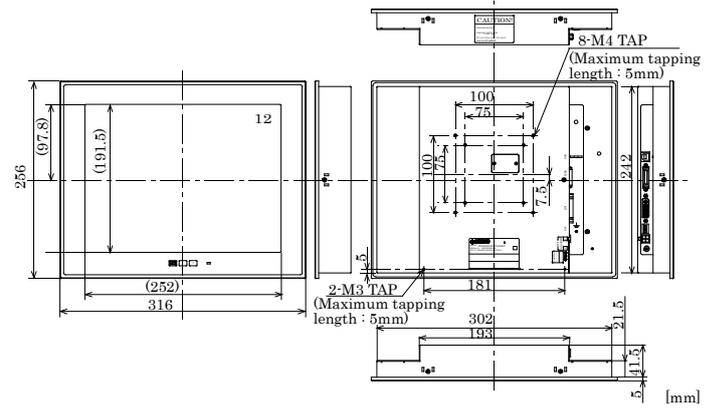
(Note) The manual of this product is being offered as PDF file on the CONTEC's Web site. Each cable for this product is not bundled. Purchase it separately.

Physical Dimensions

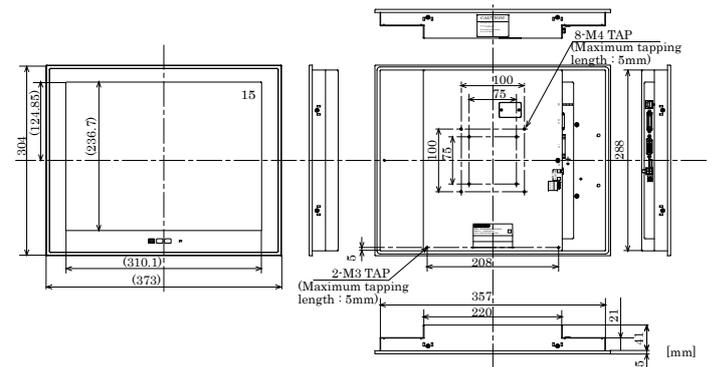
FPD-S71VT-DC1



FPD-L71ST-DC1



FPD-H71XT-DC1

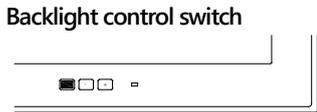
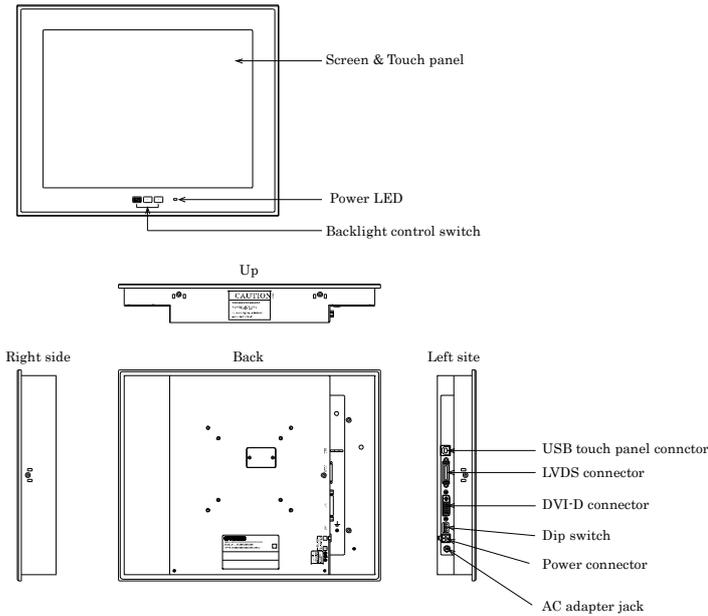


List of Option

- Screen protective sheets**
  - IPC-CV12 12.1-inch [FPD-L71ST-DC1] screen protective sheets (10 sheets)
  - IPC-CV15 15-inch [FPD-H71XT-DC1] screen protective sheets (10 sheets)
- Display cable only for DVI-D**
  - IPC-DVI/D-020 DVI-D cable (2m)
- Others**
  - IPC-ACAP12-04A AC adapter (Input: 100-240VAC, Output: 12VDC 4A)
  - PWA-90AWD1 AC adapter (Input: 100-240VAC, Output: 12VDC 7.5A)
  - PWA-65AWD1 AC adapter (Input: 100-240VAC, Output: 12VDC 5.417A)
  - IPC-SND-03 Desk stand

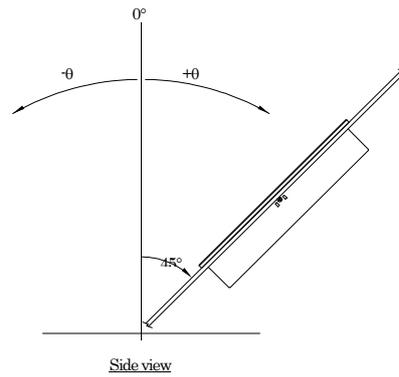
## Component Name

### Part Names



### Installed angle which is recommended

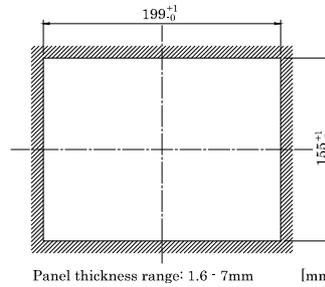
Installed angle of this product which is recommended is 0 - 45°. Except for that, the temperature specification of this product might not be filled.



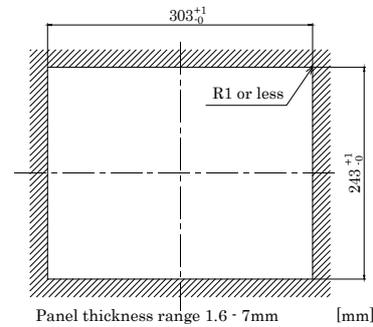
### Panel Cut

Cut the display mount panel in the following dimensions. The four corners of the solid-line rectangle define the panel cut dimensions.

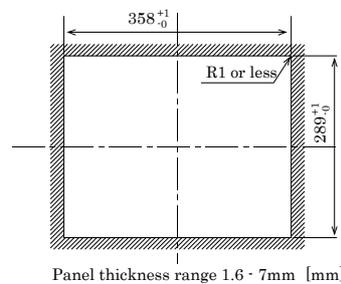
#### FPD-S71VT-DC1 [6.5 inches] Panel Cut Dimensions and hole position for stud



#### FPD-L71ST-DC1 [12.1 inches] Panel Cut Dimensions and hole position for stud



#### FPD-H71XT-DC1 [15 inches] Panel Cut Dimensions and hole position for stud



## Hardware Setup

### Installation Requirements

#### Distances between this product and Its Vicinity

To maintain the ambient temperature within the installation environment requirement range, provide a gap of 50mm or more between the main unit and any adjacent equipment.

