

## Data Sheet



**21.5" TFT LCD Monitor with PCAP Touch and metal frame.  
Suited for integration in protective enclosures.**

## **PSIV-215-PF**

**Nov, 2021**

**Rev. 0.0**

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## REVISION HISTORY

No.	Description	Date	Rev.	Page
1	Initial Release	Nov. 2021	0.0	all
2	Maximum ambient operating temperature set to 40 °C	Dec. 2021	0.1	6
3	Added „non condensing“ to humidity rating	Dec. 2021	0.1	6

## INTRODUCTION

Industrial 21.5" display with PCAP glass/glass touch and front plate. Video input connectors for VGA, HDMI, Display Port. PCAP touch with 10 simultaneous touch points. Metal front plate to support easy integration into protective enclosures.

Additional 100 x 100 mm VESA mount for the installation of Mini-PCs.

## DISPLAY SPECIFICATION

Parameter	Unit	Value
Screen Technology		AHVA (IPS-like)
Screen Diagonal	[mm]	546.86 (21.5")
Active Area	[mm]	476.064 (H) x 267.786 (V)
Pixels		1920 H (x3) x 1080 V
Pixel Arrangement		R:G:B Vertical Stripe
Display Mode		AHVA Mode, Normally Black
White Luminance Center	[cd/m <sup>2</sup> ]	500 (Typ.)
Contrast Ratio		1000 (Typ.)
Optical Response Time	[ms]	22 (Raising + Falling)
Support Color		16.7M
Viewing Angle	[degree]	178 H / 178 V
Aspect Ratio		16 : 9

## VIDEO CONNECTORS

### **1 - VGA Signal Input (Analog 15pin D-Sub)**

Pin No.	SYMBOL	Pin No.	SYMBOL	Pin No.	SYMBOL
1	RED IN	6	R-GND	11	GND
2	GREEN IN	7	G-GND	12	SDA DDC
3	BLUE IN	8	B-GND	13	SYNC H
4	GND	9	PC 5V	14	SYNC V
5	VGA DET	10	GND	15	SCL DDC

## 2 - HDMI Signal Input (1.4a, HDCP 1.3)

Pin No.	SYMBOL	Pin No.	SYMBOL	Pin No.	SYMBOL
1	HDMI_DATA2+	8	GND	15	HDMI_SCL
2	GND	9	HDMI_DATA0-	16	HDMI_SDA
3	HDMI_DATA2-	10	HDMI_CLK+	17	GND
4	HDMI_DATA1+	11	HDMI_DET	18	HDMI_5V
5	GND	12	HDMI_CLK-	19	HDMI_HDP
6	HDMI_DATA1-	13	CEC	-----	-----
7	HDMI_DATA0+	14	NC	-----	-----

## 3 - Display Port Signal Input (1.2, HDCP 1.3)

Pin No.	SYMBOL	Pin No.	SYMBOL	Pin No.	SYMBOL
1	LANE3-	8	GND	15	AUX_CHP
2	GND	9	LANE1+	16	DP DET
3	LANE3+	10	LANE0-	17	AUX_CHN
4	LANE2-	11	GND	18	HPD
5	GND	12	LANE0+	19	RETURN
6	LANE2+	13	GND	20	DP_5V
7	LANE1-	14	GND	-	-

## TOUCH SPECIFICATION

Parameter	Unit	Value
Type		Projected Capacitive (PCAP)
Structure		Glass / Glass
Surface		Glossy
Assembly		Air Bonded
Number of Touchpoints		10
Transparency		≥ 85%
Surface Hardness		≥ 6H
Color Bezel		Black (RAL9005)
Touch IC		EETI

## ENVIRONMENTAL RATINGS

Parameter	Symbol	Unit	Min	Max
Operating Temperature	T <sub>OP</sub>	oC	-10	40
Storage Temperature	T <sub>ST</sub>	oC	-20	60
Operating Ambient Humidity (non condensing)	H <sub>OP</sub>	%RH	10	85
Storage Humidity (non condensing)	H <sub>ST</sub>	%RH	10	85

## ELECTRICAL SPECIFICATION

Parameter	Symbol	Unit	Min	Typical	Max
Input Voltage	V <sub>DC</sub>	V	11,6	12	12,4
Power Consumption	P <sub>WR</sub>	W	21	23	25

## MECHANICAL SPECIFICATION

Parameter	Unit	Value
Housing		Sheet Steel,
Surface Display		Hot-galvanized
Surface Frontplate		RAL 9005, Powder Coated
Weight	kg	7.2
VESA Mount	[mm]	200 x 100, 400 x 200
VESA Mount for Mini-PC	[mm]	100 x 100

## DISPLAY DIMENSIONS

Please refer to MECHANICAL DRAWINGS for detailed information.

## OSD-MENU

The OSD (On Screen Display) provides certain functions for display configuration. OSD is controlled by four push-buttons. A LED indicates the display status.

### Button Layout



LED	Power	Menu	UP	DOWN
OFF: Display Off AMBER: No Signal GREEN: Normal State	DISPLAY ON/OFF	OPEN OSD SELECT	MOVE UP INCREASE VALUE	MOVE DOWN DECREASE VALUE

### Menu Tree

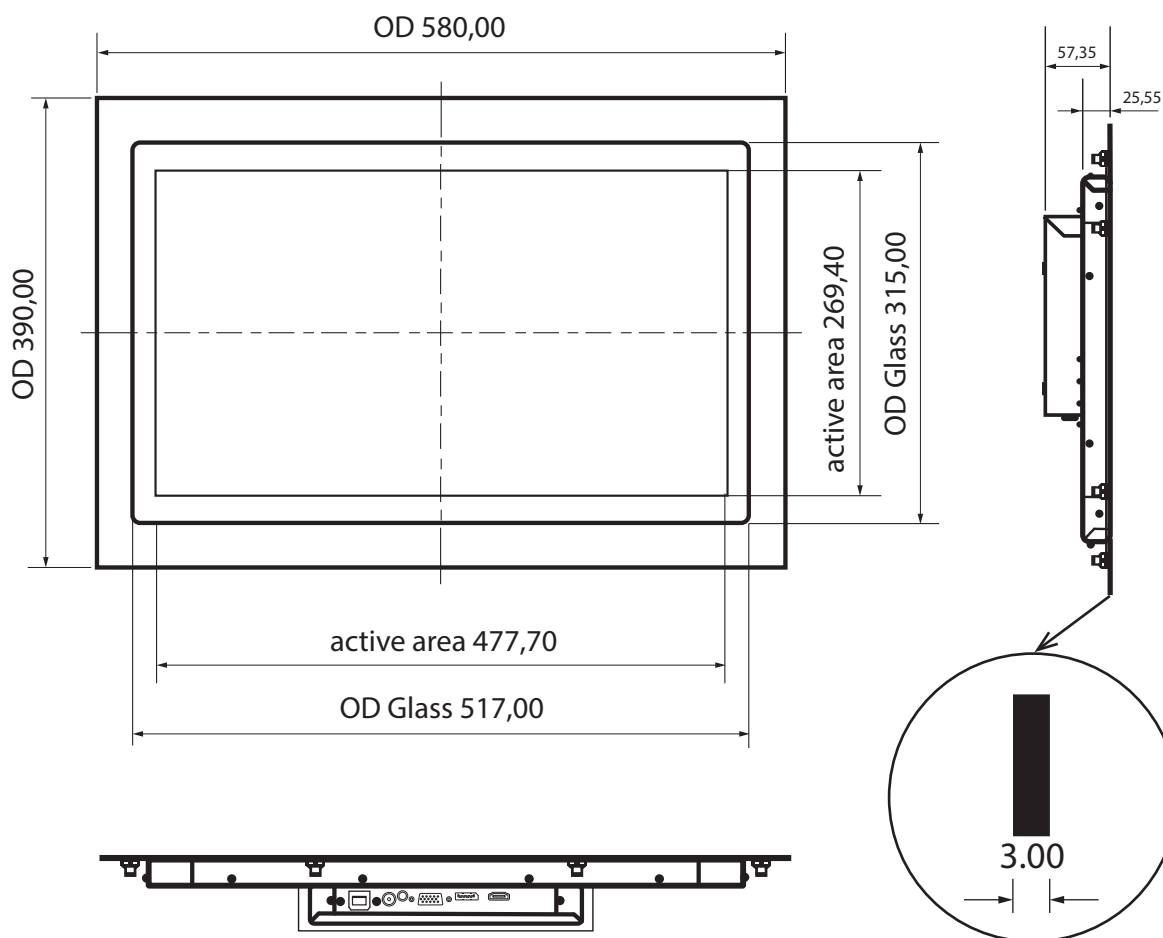
Color	Brightness	0 - 100
	Contrast	0 - 100
	Color Temp	Cool, Normal, Warm, sRGB, Usr (Red, Green, Blue)
	Auto Color	Select
Image Setting	Sharpness	0 - 4
	H-Position	0 - 100
	V-Position	0 - 100
OSD Menu	OSD H-Position	0 - 100
	OSD V-Position	0 - 100
	OSD Time	0 - 100 s
	Language	English, French, Gernam, Spanish, ...
System Source	VGA	Select
	DP	Select
	HDMI	Select
Audio	Volume	0 - 100
	Mute	On / Off
Reset		Select
Exit		Select

## CONNECTOR LAYOUT

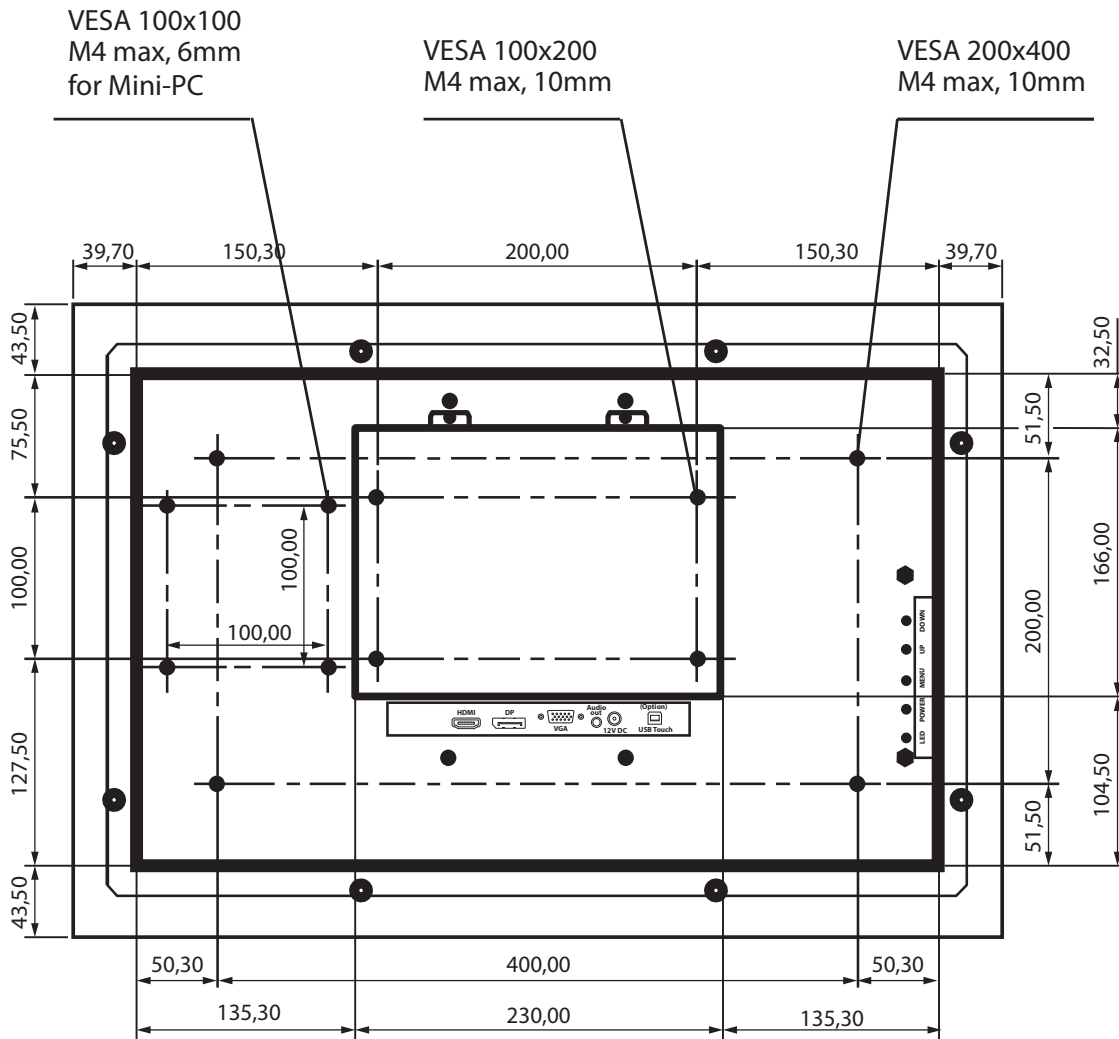


## MECHANICAL DRAWINGS

All dimensions in [mm].







## CE-MARKING AND CERTIFICATION

CE: Class B, FCC: Class A

## ORDER INFORMATION

### **Display:**

Product No.: 9100001: Monitor PSIV-215-PF

### **Options:**

Product No.: 3100032: Power supply 110/230V AC, 12V/5A DC

Product No.: 4100025: HDMI cable, 0.5 m

Product No.: 4100026: HDMI cable, 2.0 m

Product No.: 4100001: Display Port cable, 0.5 m

Product No.: 4100003: Display Port cable, 2.0 m

Product No.: 4100023: USB 2.0 cable, type A -> B, 0.5 m

Product No.: 4100024: USB 2.0 cable, type A -> B, 2.0 m