

Data Sheet



Small format LCD monitors

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REVISION HISTORY

No.	Description	Date	Rev.	Page
1	Initial Release	January 2025	0.1	all
2	Added 21.5" Monitor	January 2026	0.2	all

INTRODUCTION

Industrial small format monitors are available with 15", 18.5", 21.5", 23.8" and 27" LCD displays. Basic open-frame versions can be complemented with options like PCAP-touches, safety glasses, bezels and mounting brackets.

Additionally, 21.5", 23.8" and 27" monitors offer a 100 x 100 mm VESA mount for the installation of Mini-PCs on the back side.

Video input connectors are VGA, HDMI and Display Port.

DISPLAY SPECIFICATION

Parameter	Unit	15"	18.5"	21.5"
Screen Technology		IPS	AHVA TFT-LCD	AHVA (IPS-like)
Screen Diagonal	[mm]	381.0 (15.0")	469.16 (18.47")	546.86 (21.5")
Active Area	[mm]	304.1 (H) x 231.3 (V)	408.96 (H) x 230.04 (V)	476.06 (H) x 267.78 (V)
Pixels		1024 x 768	1920 x 1080	1920 x 1080
Pixel Arrangement		R:G:B Vertical Stripe	R:G:B Vertical Stripe	R:G:B Vertical Stripe
Display Mode		Normally Black	Normally Black	Normally Black
White Luminance Center	[cd/m²]	500 (Typ.)	500 (Typ.)	500 (Typ.)
Contrast Ratio		2500 (Typ.)	1000 (Typ.)	1000 (Typ.)
Optical Response Time	[ms]	23 (Raising + Falling)	20 (Raising + Falling)	22 (Raising + Falling)
Support Color		16.7M	16.7M	16.7M
Viewing Angle	[degree]	176 H / 176 V	178 H / 178 V	178 H / 178 V
Aspect Ratio		4 : 3	16 : 9	16 : 9

Parameter	Unit	23.8"	27"
Screen Technology		a-Si TFT LCD	a-Si TFT LCD
Screen Diagonal	[mm]	604.70 (23.81")	685.65 (27.0")
Active Area	[mm]	527.04 (H) x 296.46 (V)	597.6 (H) x 336.15 (V)
Pixels		1920 x 1080	1920 x 1080
Pixel Arrangement		R:G:B Vertical Stripe	R:G:B Vertical Stripe
Display Mode		Normally Black	Normally Black
White Luminance Center	[cd/m²]	400 (Typ.)	300 (Typ.)
Contrast Ratio		1000 (Typ.)	3000 (Typ.)
Optical Response Time	[ms]	14 (Raising + Falling)	12 (Raising + Falling)
Support Color		16.7M	16.7M
Viewing Angle	[degree]	178 H / 178 V	178 H / 178 V
Aspect Ratio		16 : 9	16 : 9

VIDEO CONNECTORS

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	NC	9	PC 5V	14	SYNC V
5	VGA DET	10	GND	15	SCL DDC

HDMI Signal Input (1.4a, HDCP 1.4)

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	NC	-----	-----
7	HDMI_DATA0+	14	NC	-----	-----

Display Port Signal Input (1.2, HDCP 1.4)

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	18.5" / 21.5"	15" / 23.8" / 27"
Type	Projected Capacitive (PCAP)	
Structure	Glass / Glass	
Surface	Anti Glare	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	15"	18.5"	21.5"
Operating Temperature	T _{OP}	°C	-10 to +40	+5 to +40	-10 to +50
Storage Temperature	T _{ST}	°C	-20 to +60	-10 to +60	-20 to +60
Operating Ambient Humidity (non condensing)	H _{OP}	%RH	10 to 85	10 to 85	10 to 85
Storage Humidity (non condensing)	H _{ST}	%RH	10 to 85	10 to 85	10 to 85

Parameter	Symbol	Unit	23.8"	27"
Operating Temperature	T _{OP}	°C	+5 to +40	+5 to +40
Storage Temperature	T _{ST}	°C	-10 to +60	-10 to +60
Operating Ambient Humidity (non condensing)	H _{OP}	%RH	10 to 85	10 to 85
Storage Humidity (non condensing)	H _{ST}	%RH	10 to 85	10 to 85

ELECTRICAL SPECIFICATION

Parameter	Symbol	Unit	15"	18.5"	21.5"
Input Voltage (max.)	V _{DC}	V	11,6	12	12,4
Power Consumption (max.)	PWR	W	17	32	25

Parameter	Symbol	Unit	23.8"	27"
Input Voltage (max.)	V _{DC}	V	12,4	12,4
Power Consumption (max.)	PWR	W	32	28

MECHANICAL SPECIFICATION

Parameter	Unit	Value
Housing		Sheet Steel,
Surface Display		Hot-galvanized
Surface Frontplate		RAL 9005, Powder Coated
Weight	kg	6,3
VESA Mount	[mm]	100 x100, 200 x 100, 400 x 200

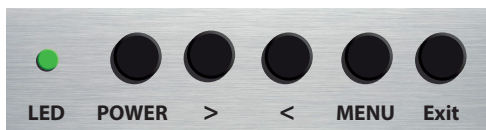
DISPLAY DIMENSIONS

Please refer to MECHANICAL DRAWINGS for detailed information.

OSD-MENU

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

Button Layout



LED	Power	>	<	MENU	EXIT
OFF: Display Off AMBER: No Signal GREEN: Normal State	DISPLAY ON/OFF	MOVE RIGHT INCREASE VALUE	MOVE LEFT DECREASE VALUE	OSD ON SELECT	OSD OFF MOVE UP

Menu Tree

Picture	Backlight	0 - 100
	Brightness	0 - 100
	Contrast	0 - 4
	Sharpness	Select
Color	Temperature	Standard, R/G/B Up/Down
	Color-Effect	Game, Movie, Photo, Vivid User Hue R/Y/G/C Up/Down User Saturation R/Y/G/C Up/Down
	Hue	0 - 100
	Saturation	0 - 100
Input	AutoSelect	Select
	VGA	Select
	DP	Select
	HDMI	Select
Audio	Volume	Up / Down
	Mute	On / Off
	Audio Source	Analog / Digital

Other	Reset	Select
	Menu Time	1 - 10 Seconds
	OSD Horizontal Position	0 - 100
	OSD Vertical Position	0 - 100
	OSD Language	English, German, French, Spanish
	OSD Transparency	0 - 5
	OSD Rotate	0, 90, 270
Information		Select
Exit		Select

CONNECTOR LAYOUT



MECHANICAL DRAWINGS

Please refer to MECHANICAL DRAWINGS for detailed information.

CE-MARKING AND CERTIFICATION

CE: Class B, FCC: Class A

ORDER INFORMATION

15" Monitors

Product No.: 9100033:	PSIV-150-PCAP (with PCAP touch)
Product No.: 9100034:	PSIV-150-FR (with protective glass and front bezel)
Product No.: 9100051:	PSIV-150-OF (open frame)

18.5" Monitors

Product No.: 9100062:	PSIV-185-OF (open frame)
Product No.: 9100063:	PSIV-185-PCAP(true-flat PCAP touch)

21.5" Monitors

Product No.: 9100000:	PSIV-215-OF (open frame)
Product No.: 9100002:	PSIV-215-PCAP(true-flat PCAP touch)

23.8" Monitors

Product No.: 9100035:	PSEV-238-OF (open frame)
Product No.: 9100036:	PSEV-238-FB (front bezel)
Product No.: 9100037:	PSEV-238-PCAP(true-flat PCAP touch)

27" Monitors

Product No.: 9100041:	PSEV-270-OF (open frame)
Product No.: 9100042:	PSEV-270-PCAP (PCAP touch)
Product No.: 9100043:	PSEV-270-PCAP-FR (PCAP touch with front bezel)

Options Mounting:

Product No.: 9100005:	Set mounting brackets (2 pieces)
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Options Power Supply:

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

Product No.: 4100059:	Power cord EU, 1.2 m
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