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1 - General

The monitor has a 21 "TFT display with a resolution of 1920 x 1080 pixels. The connection to the PC takes place via a VGA interface with 15-pin VGA plug or via a DVI interface with DVI-I Dual Link plug (24 + 1 pin) or the display port for the transmission of digital image signals.

Optionally, the monitor can be equipped with a resistive touch screen. The touch has a USB interface.



Monitor with stainless steel front plate

If the monitor is equipped without a touch, the display is protected against contact and contact with moisture and aggressive substances through a glass. There is a standard protective glass and a visually anti-glare protective glass available.

The monitor is available with a standard or stainless steel front plate and mounting bolts on the back. These two versions are intended for installation in a control cabinet or control panel. The front panel has a gasket. The degree of protection is IP 65.



Monitor Back with standard front plate and mounting bolts

The monitors have a standard 12 VDC power supply and are supplied with an external 230 VAC / 12 VDC power supply. All monitors are optional with a supply voltage of 24 VDC or with an internal power supply of 230 VAC available.

2 - Technical specifications

Technical specifications			
LCD - Type	21,5" TFT		
resolution (Pixel)	1920 x 1080		
act. screen area(mm)	476,64 x 268,11		
pixel density (mm)	0,294 x 0,294		
brightness (cd / m²)	300		
contrast	5000 : 1		
reaction time TR/TF (msec.)	16 / 16		
Colors	16,7 Mio		
Angle of view horizontally vertical	R / L = 85° / 85° O / U = 85° / 85°		
Lifetime illumination (half-life)	LED backlight / 50,000 hours		
Touch (Option)	Analog resistive touch with USB interface		
VGA Port	FULL HD		
DVI Port	DVI D Dual Link (24 + 1 Pin connector)		
DP Port	Display Port (digital image signals)		
OSD - Menü	Yes		
supply voltage	12 VDC optional 24 VDC (intern) optional 100 - 230 VAC (intern)		
power consumption	30 W		
operating temperatur	0 to 50 °C		
storage temperature	-20 to60 °C		
Front Plate	Front panel black powder coated, RAL 9005, with fixing bolts Stainless steel front plate with mounting bolts		
Degree of protection front panel	IP 65 (Stainless steel and standard front)		
VESA connection	No		
weight	6,0 KG		

Reserve technical changes.

3 - Power supply

3.1 Monitor with 12 VDC power supply

The connector is located on the back of the monitor. The inner pin is plus, the outer minus. The inner plug has a diameter of 2.5 mm.

An external power supply unit with a supply voltage of 100 - 240 VAC / 12 VDC and 60 VA output is included in this version.



Attention: pay attention to polarity



External power supply unit 230 VAC / 12 VDC

3.2 Monitor with 24 VDC power supply

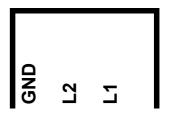
On the back there is a 3-pin screw terminal connection. The supply voltage is 20 - 28 VDC. The power consumption is about 40 watts.

24 VDC

3.3 Monitor with 230 VAC power supply

On the back there is a 3-pin screw terminal connection. The supply voltage is 100 - 230 VAC The power consumption is about 40 watts.

100 - 230 VAC



4 - Monitor Back



Button OSD menu on the back of the monitor

On the back of the monitor is the power supply connector, the VGA input, the DVI input, the DP connector, the connector on the Touch if the monitor is equipped with a touch screen, and 5 buttons for adjusting the OSD menu

The keys are labeled with:

POWER: Monitor on / off.

MENU: Enable and disable the OSD menu.

SELECT: Confirm selection in OSD main menu or OSD submenu.

DOWN: Selection of icons in the main and submenu as well as setting the values.

The value to be set is lowered.

UP: Selection of icons in the main and submenu as well as setting the values.

The value to be set is increased.

5 - OSD Menü

After pressing the MENU button, the OSD menu is displayed as shown in the lower picture. Then you can use the UP / DOWN buttons to select the various main menus. By pressing the SELECT key, the selected main menu with the associated submenu items is selected and the submenu items can be selected using the UP / DOWN keys. These are also acknowledged with the SELECT key.

Then select the desired value with the UP / DOWN keys and confirm with SELECT. Exit various menu items by pressing the MENU key.



Attention: The OSD menu can only be activated when the input signal is present!

5.1 Picture



Backlight: Adjustment of the backlight

Brightness: Adjust the brightness

Contrast: Contrast adjustment

Sharpness: Adjust the focus

5.2 Display



Auto Adjustment: The optimal picture setting is activated

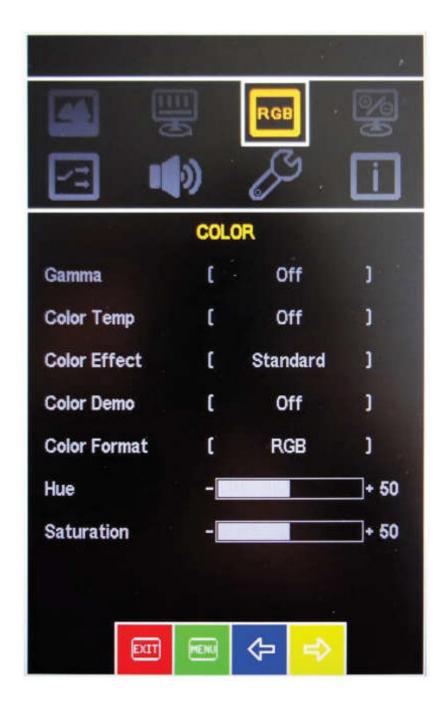
H. Position: The horizontal position can be adjusted

V. Position: The vertical position can be adjusted

Pixel Clock: The clock frequency can be adjusted

Phase: The clock rate can be adjusted

5.3 Color



Gamma: The gamma value can be adjusted

Color Temp.: The color temperature can be adjusted

Color Effect: A color effect can be set

Color Demo: Selection for hue and saturation

Color Format: Color space selection

Hue: Adjust the color balance

Saturation: Adjust the saturation

5.4 Advance



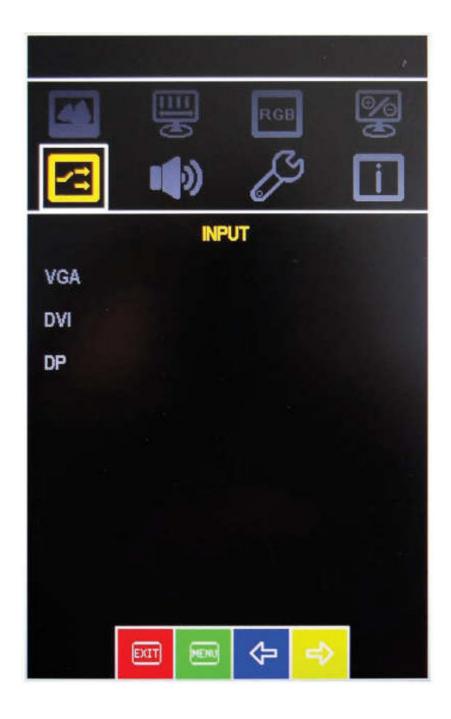
Aspect ratio: Adjust aspect ratio

Overscan: Overscan function on or off

DDCCI: Turn DDCCI support on or off

Ultra Vivid: Select the type of color mode

5.5 Input



VGA: Select VGA as the input source

DVI: Select DVI as the input source

DP: Select DP as the input source

5.6 more settings



Reset: Reset to factory settings

Menu Time: Presentation time OSD menu

OSD H Position: Horizontal adjustment OSD menu

OSD V Position: Vertical adjustment OSD menu

Language: Language: German or English

Transparencey: Transparency OSD menu setting

Rotate: Turn OSD Menu On / Off

5.7 Information



Information about:

signal input

H and V frequency

clock speed

HDCP functional status

Firmware version

6 - Touch Screen

If the monitor is equipped with a resistive touch screen, the CD comes with the driver software for the touch screen.

When touched with a USB interface, the touch is powered by the PC.

The connection to the PC is made via a USB plug type A. The plug is located on the back of the monitor.

A connecting cable of 3 meters is included.

To install the driver software, insert the CD-ROM into the drive.

Do not connect the USB cable to the PC.

Enter D: \ Setup.exe and confirm with OK.

Instructions on the screen.

For USB interface: DMC, TSC-10 Series, select USB.

The driver software is now installed.

After completing the installation, connect the USB cable to the PC.

The New Hardware Installation Wizard appears.

When asked, "Connect to the Internet" - NO this time -

Select and select Next.

Click on "Install software automatically" and select Next.

When asking for verification - continue installation - select.

Select Finish.

Select Close.

The software and driver are now installed and the touch should be at fingertip react

Calibrate Touch Screen Now (Start, All Programs, UPDD, Calibrate)

ATTENTION: If a different touch driver is installed on the PC, remove it completely from the PC before installation.

A not completely uninstalled driver can cause the touch does not work. If necessary, restart PC after installation.

7 - Monitor maintenance

Only clean the touch with a damp cloth!

DO NOT use a pressure washer.

Touch only with your fingers, do not use hard and sharp objects.

8 - Screensaver

Avoid displaying the same image over a long period of time.

Even with TFT monitors, this can lead to "burn in" the display.

It is called the "memory effect".

Therefore use a screensaver.

If a different picture is displayed for a longer time, the "Memory Effect" will disappear automatically.

9 - Safety

The operating voltage of the device may only be in the specified range.

The device complies with the requirements of the applicable European standards and EMC guidelines.

The front of the monitor is splash-proof.

There are ventilation slots on the back. These must remain free and it must be ensured that there is sufficient space for air circulation.

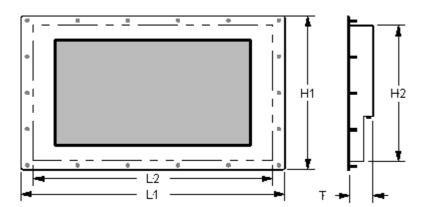
No objects should be put through the slots.

There must be no moisture or liquid in the monitor.

The monitor is not intended for use in hazardous areas.

10 - Mechanical dimensions

10.1 monitor with standard or stainless steel front plate

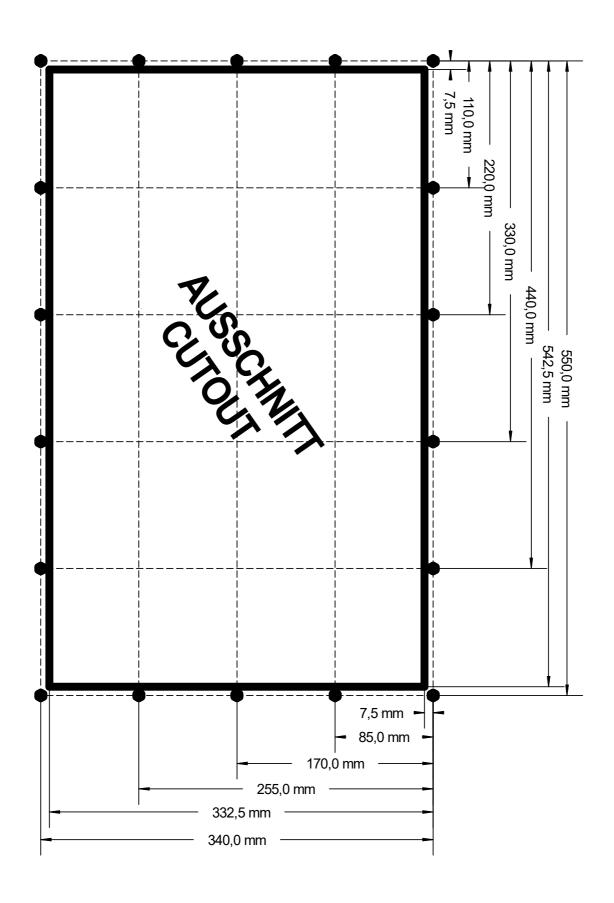


L1 = 570 mm L2 = 532 mm H1 = 360 mm H2 = 322 mm T = 55 mm

Front plate thickness = 3 mm

Cut Out: 535 x 325 mm

11 - Front Panel Cutout Monitor with standard and stainless steel front panel



Front Panel Cutout Monitor 19 " Hole = 6.5 mm Notes:

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