USER MANUAL

POS-Line Series small V2

POS-Line Monitors
from 38 cm (15") to 61 cm (24")

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INTEGRATED

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Table of Contents

1. General Specifications

Scope of Document

This user manual is valid for POS-Line monitors up to 61 cm (24"). The POS-Line monitors are offered in different screen sizes and with various controllers and other options.

Important note: All documents are available for download from FORTEC Integrated web site: https://www.fortec-integrated.de/en/service/downloads/monitor-downloads/.

POS-Line monitor versions:

POS-Line Video PME: Monitor with integrated AD converter board, 1 x RGB, 1 x HDMI, 1 x Display Port.

POS-Line IQ Celeron: Monitor with integrated PC board Intel Celeron.

POS-Line IQ Core-i7:   Monitor with integrated PC board Intel Core-i.

POS-Line VideoPoster: Monitor with integrated network media player for video play lists.

POS-Line IoT: Monitor with integrated Raspberry® Pi CM3+ ARM module.

2.   Chassis Versions

Various front options are available for the POS-Line displays to support the mounting in different situations and applications. The front options changes the look of the displays.

Note: All the photos and graphic representations of this document show open frame displays. However, the explanations apply also to displays with front bezel.

Displays with various front bezels:

|		
Open frame display (without bezel) For mounting with angles or VESA compatible mounts.		
Display with front bezel For VESA compatible mounts.		
Display with front plate For front mount applications with angles or VESA compatible mounts.		
Display with true-flat glass For front mount applications with angles or VESA compatible mounts		

3.   Scope of Delivery

When unpacking the monitor, please check if the following accessories are included in the shipment:

Note: Pictures can differ from actually supplied products.
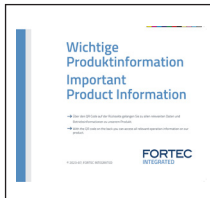
☐ Product information

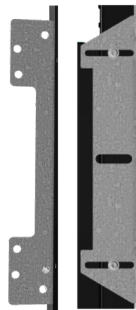☐ RGB cable***   ☐ USB cable*   ☐ Power adapter

☐ USB stick**   ☐ 2 mounting brackets****

*   Devices with touch sensor only

**   POS-Line VideoPoster series only

***   POS-Line PME series only

****   Not together with option front bezel

4.   General Safety Regulations

Safety information

Please read this safety information carefully for your personal safety and for the prevention of property damage.

In case of a malfunction, immediately disconnect the power plug and contact your dealer or the next Data Display Group service centre. A malfunction is also considered if the housing, a control element or cable is damaged or if liquids or other objects penetrate the monitor.

Please read the safety information carefully before installing the device. If you have any doubts about whether the device may be used in a particular environment, please contact our service partner.

Repairs

Repairs may only be carried out by authorized technical personnel. Unauthorized access or improper repairs might cause serious property damage or cause danger to the user. In addition to that, any legitimate warranty claim expires.

Electrical connection

Disconnect the monitor from socket before executing any work. Do not touch or connect data cables or power cables during thunderstorms.

System start-up

Before the system start-up let the monitor adjust to the room temperature. Do not expose the device to direct heat sources. In case of condensation, please wait a minimum of 12 hours before switching on the monitor. The monitor shall only be installed and used according to this documentation data sheets. Only qualified personnel may perform the initial installation and system setup.

Qualified personnel

Qualified personnel, in terms of the safety information of this documentation, are persons who are qualified to activate, ground and label devices, systems and circuits according to the safety standards.

Operation

For a proper and safe utilization of the product, adequate transportation, storage, installation, assembly, careful handling and maintenance are essential. The device is only certified for in-door operation. Extreme ambient conditions shall be avoided and the monitor shall be protected from dust, humidity and heat. Do not expose the monitor to direct sunlight.

Transport

Unpack the monitor at the place of installation. Use only original packaging for transportation. Please observe these rules for any later transport.

Condensation

Avoid condensation during transport at low temperatures or at extreme fluctuations of temperature.

Safety guidelines for the handling of LCD monitors

→ If the device is not used for a long period of time, unplug the power cable.

→ Do not unplug the power cable while the device is powerd on, except for emergencies.

→ To unplug the device without problems, sockets have to be easily accessible.

→ Ensure that the power cable does not get pinched or kinked.

→ Do not place heavy objects on the power cable.
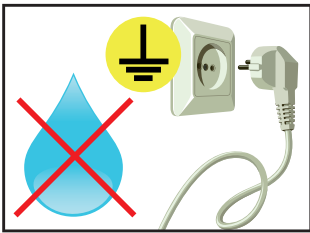
→ Do not use damaged or loose sockets to plug in the device.

→ Plug the device in secured sockets only.

→ Operate the device with the power cables included in the delivery packet only.

→ Use undamaged power cables only.

→ When plugging in and out, do not touch the power cable with wet hands.

→ Ensure that the power cable is plugged in the socket safely and correctly.
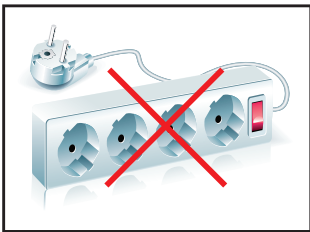
→ Use for devices with external power supply only Low Power Source (LPS).

→ Do not use extension block to plug several devices into a single socket.

→ According to the size, devices may be difficult to handle and very heavy. Ensure that at least two people lift and carry the device.

→ Put down the device slowly and carefully to avoid damaging the LCD screen. Ensure that the device stands stable.

→ Keep packaging away from children. Danger of suffocation!

→ Use our specified and professionally mounted wall mounting only.

→ Do not put objects onto the device.

→ Do not place candles, heaters or humidifier near the device.

→ Keep the device away from fireplaces and flammable materials.
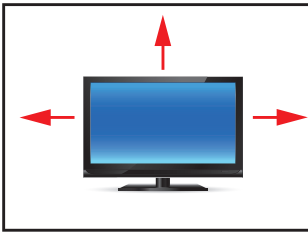
→ Ensure sufficient ventilation of the device.

→ Keep a minimum distance of at least 10 mm devices to the wall, for devices with integrated PC of at least 40 mm.

→ Ensure compliance with the operating temperature.
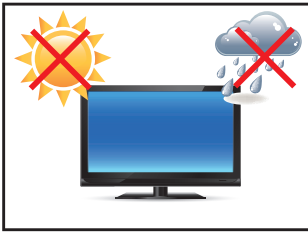
→ Do not install the device in places where it is exposed to environmental impacts such as rain or direct sunlight.

→ Do not install the device in places where it is exposed to high humidity, dust or smoke. In case of doubt, please contact your sales partner.
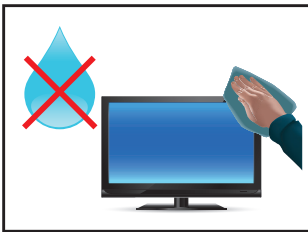
→ Please use a soft, moist cloth for cleaning.

→ For cleaning the screen, please use only commercially available screen cleaner. Do not spray the cleaner directly to the device but onto a cloth.

→ Please clean ventilation slots regularly to ensure a good air circulation.

→ Protect your device from water splash.

→ When cleaning, please make sure that no liquids get into the device.

→ Screens and surfaces can be easily scratched. Therefore, please use the prescribed cloth only.

→ In case of unusual noises, burnt smell or smoke unplug the power cable.

→ Do not insert objects into the device through the ventilation slots.

→ If the same picture is displayed over a longer period of time, an after-image may arise.

→ When exchanging batteries, pay attention to the polarity. Keep batteries away from children and ensure an environmentally correct disposal.

5.   First Installation

Position of connectors and controls

All the connectors for power and cables are located at the bottom of the back side of the display. The OSD keyboard (POS-Line Video series only) is located at the top of the back side.

Position of the OSD keyboard (Video series only)

Position of the connectors for power and signal cables

Mounting with VESA compliant monitor brackets
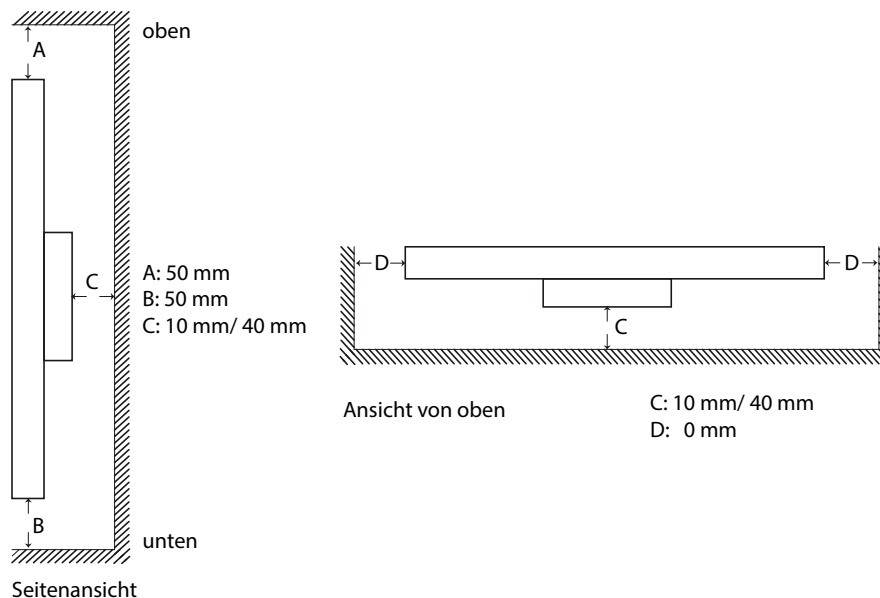

VESA mounting points
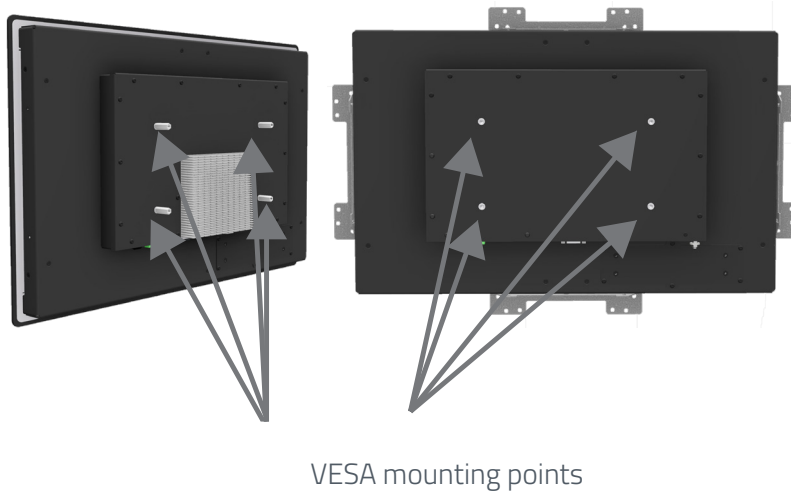
The POS Line monitors have an integrated VESA mounting.
The operating position of the device is perpendicular (90 degrees to the floor). For wall mounting, the permissible tilt angle is observed.
The device can be operated both in landscape mode and in portrait mode.

VESA formats:
VESA 200x100 POS Line

Mounting on wall

Distance to wall:

→ devices without integrated PC: min.10 mm

→ devices with integrated PC: min. 40 mm

oben

A

C

A: 50 mm
B: 50 mm
C: 10 mm/ 40 mm

B

unten

Seitenansicht

D ← → D

C

Ansicht von oben

C: 10 mm/ 40 mm
D: 0 mm

Allowed tilt angle for mounting

The following monitors may be mounted only with a tilt angle of 0° – +180°:

- All monitors with true-flat glass or option true-flat PCAP touch
- All monitors with safety glass or option touchsreen (with and without front bezel)

The following monitors may be mounted only with a tilt angle of 0° to -180°:

- All monitors without safety glass, true-flat glass or option touchscreen
- All monitors with safety glass or option touchscreen (only in combination with a front frame)

monitor

0° to +180° | 0° to -180°

tilt angle
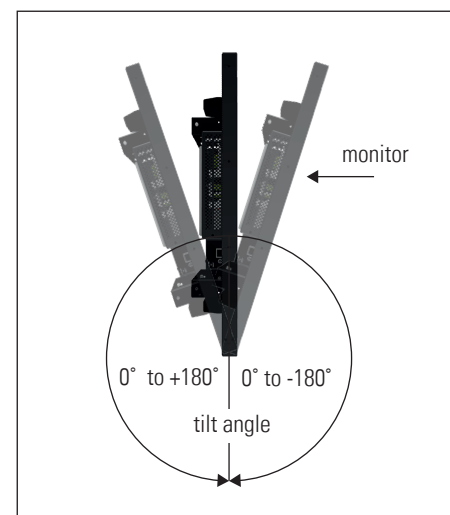
Connecting to Power

Note: The operating power of the POS-Line monitor depends on the choosen controller and on selected options.

⚠️ Please read the lable regarding the power supply before connecting the monitor to the power.
Note: POS-Line V2 Monitors can be supplied with a suitable power supply from our accessories store. Please observe the notes in the section "Connecting to an existing power supply".

Depending on controller and on ordered options, POS-Line monitors have different power requirements. The following table lists all the POS-Line versions and their operating power:

Monitor Version	Operating Power			Power Supply Included
	min.	typ.	max.	
POS-Line Video PME (for standard video signals VGA, HDMI, DP)	11.7 V DC	12 V DC	12.3 V DC	no
POS-Line IQ Celeron/ Core-i	12 V DC	12 - 24 V DC	24 V DC	no
POS-Line VideoPoster	11.4 V DC	12 V DC	12.6 V DC	no
POS-Line IoT	11.4 V DC	12 V DC	12.6 V DC	no

Display	Input voltage	Output voltage	Output current	Power
Power supply für POS-Line PME, VideoPoster, IoT, IQ Atom and IQ Core-i	100-240 V AC	12V DC	5 A	60 Watts

The power is connected to the display via the green female connector at the back side.

Female connector: Phoenix Contact DFK-MSTB-2,5 / 3-GF
Male plug: Phoenix Contact MSTB 2,5 / 3-STF

Connecting to power with optional power supply

Note: Connect the data cables to external devices before plugging the display to the power.

⚠️ An adapter cable to connect the optional AC power adapter is included to all monitors in the package.

→ Connect the adapter cable to the display.

→ Connect the adapter cable to the 12 V connector of the power supply.

→ Connect the power cable to the power supply.

→ Connect the power cable to a power socket.

→ Disconnect device: The AC main power supply can be disconnected via the Phoenix connector (DC), via the POS-Line V2 monitor or the AC adapter's plug.
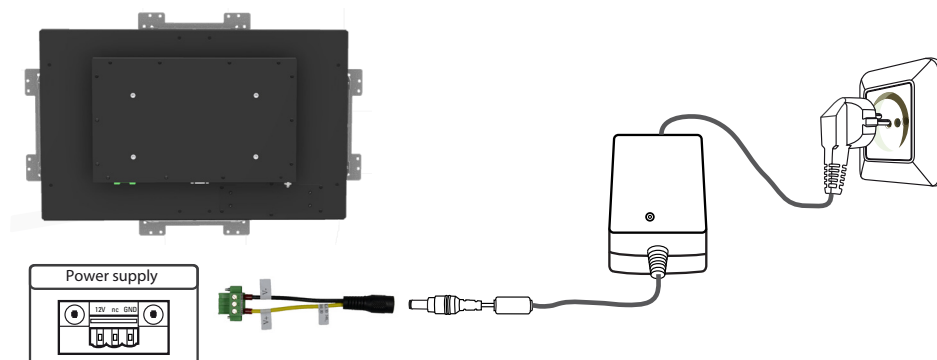
Connecting to an existing power supply

⚠️ Caution: POS-Line V2 monitors with an input voltage of 12V or 24V can only be used with a current source of limited power (see standard EN 60950-1, chapter 2.5, table 2B "current source limited line" with max. 24V / 4A 100VA).

→ Make sure that your external power supply is sufficient for the display. The maximum power consumption of the display is indicated in the data sheet and the display label.

→ Disconnect the adapter cable, if necessary, the device and the power supply.

→ Disconnect the green connector from the adapter cable.

→ Connect your POS-Line monitor to your power source. Pay attention to polarity of the green connector!

→ Connect the green connector to the device.

→ Disconnector: The DC supply network can be disconnected via the Phoenix connector, at the POS-Line V2 monitor.
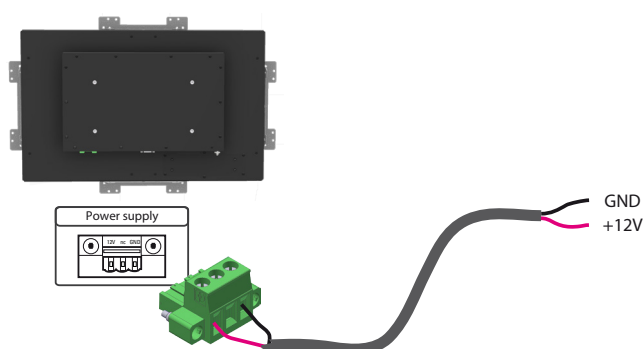
Grounding the display chassis

The housing of the monitor is equipped with a function grounding. This can be connected optionally to the earthing of the system. Use the connector on the bottom of the monitor as well as a ground cable with a sufficient cross-section (for example 0.75 mm²).
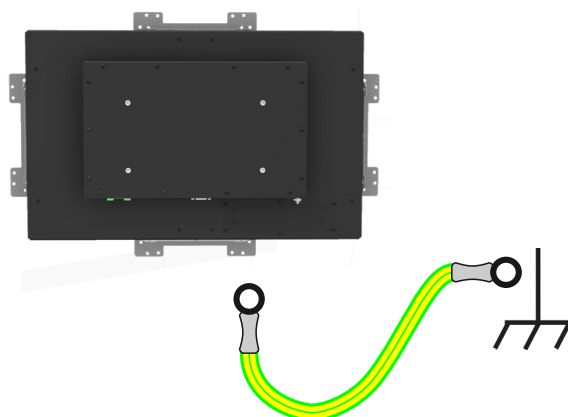
6. Touch Sensors

POS-Line monitors are available with touch option. Depending on the panel size, different touch systems and touch technologies are used. If the monitor has been ordered with touch option, the touch sensor and touch controller are installed at factory.

POS-Line IQ:

The actual touch driver is pre-installed on these systems if ordered with operating system. The touch can be put directly into operation.

POS-Line Video:

The drivers for these monitors must be installed on your PC system. HID devices do not need drivers for Windows 7 and higher. Please contact our support center if you are using LINUX based computers.

If a driver is required, the touch on this driver must be calibrated. Is it a HID Touch, Windows calibration in the control panel must be performed.
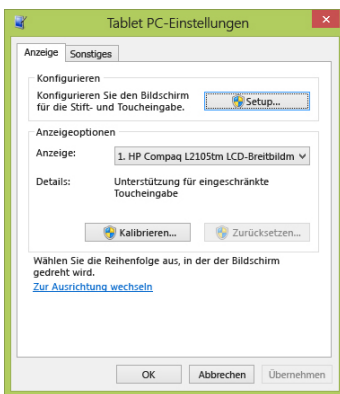
path:
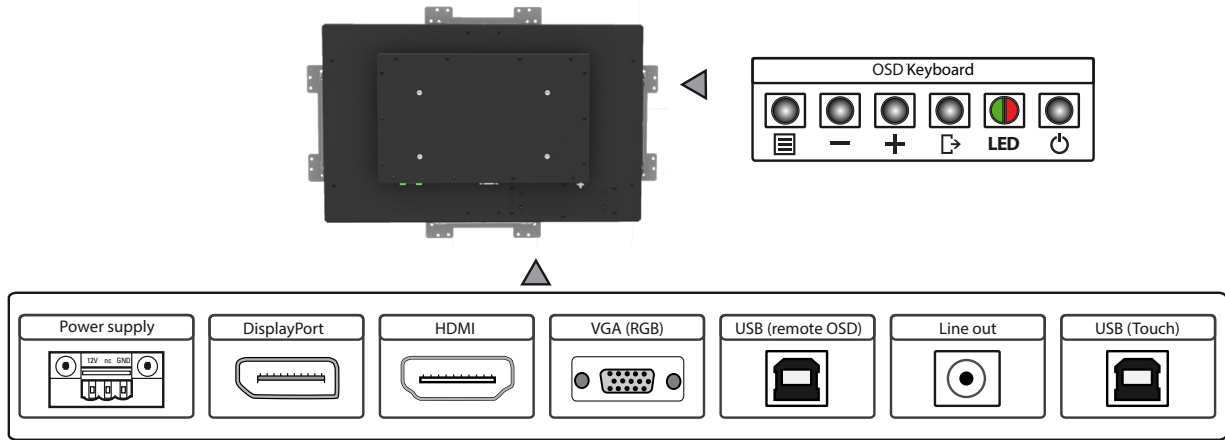Control Panel \ All Control Panel Items \ Tablet PC Settings

Note: All drivers for the touch sensors can be found on our website: https://www.fortec-integrated.de/en/service/downloads/monitor-downloads/. The following table gives an overview over the touch systems including web addresses for driver downloads.

Touch system overview:

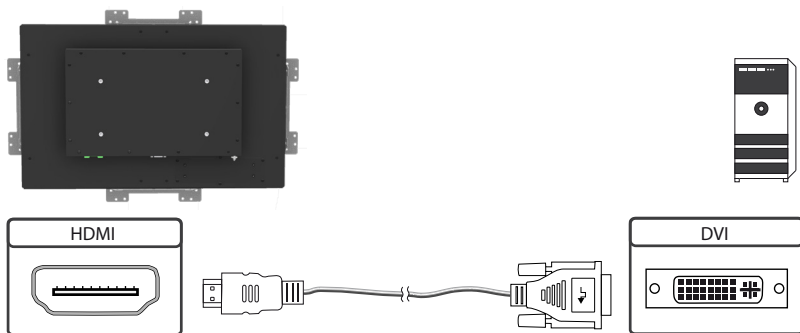| Panel size	Touch technology	Driver download
15"	5-wire resistive	http://home.eeti.com.tw/web20/eg/Touch_Drives.html
17"	5-wire resistive	http://home.eeti.com.tw/web20/eg/Touch_Drives.html
17.3"	P-CAP	http://home.eeti.com.tw/web20/eg/Touch_Drives.html
19"	5-wire resistive	http://home.eeti.com.tw/web20/eg/Touch_Drives.html
21.5"	P-CAP	http://www.ilitek.com/
24"	P-CAP	http://home.eeti.com.tw/web20/eg/Touch_Drives.html

7.   POS-Line Video PME

Connectors and OSD buttons of POS-Line Video PME series

OSD Keyboard					
☰	—	+	⤷	**LED**	⏻

Power supply	DisplayPort	HDMI	VGA (RGB)	USB (remote OSD)	Line out	USB (Touch)
12V nc GND						

Connecting to a PC with VGA cable

VGA (RGB)		VGA (RGB)
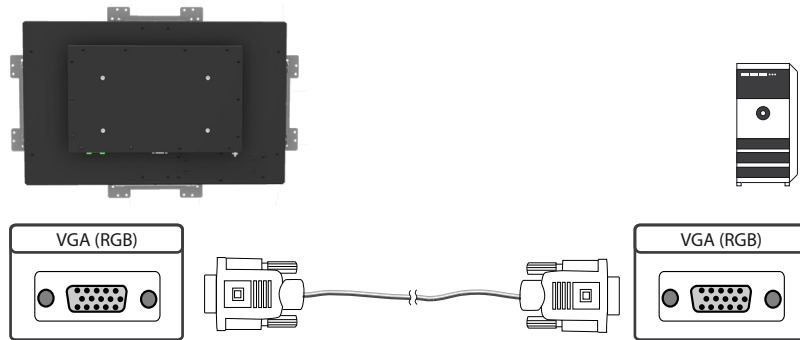
Connecting to a PC with HDMI–DVI cable

HDMI		DVI

Connecting to a PC with HDMI cable

HDMI		HDMI

15
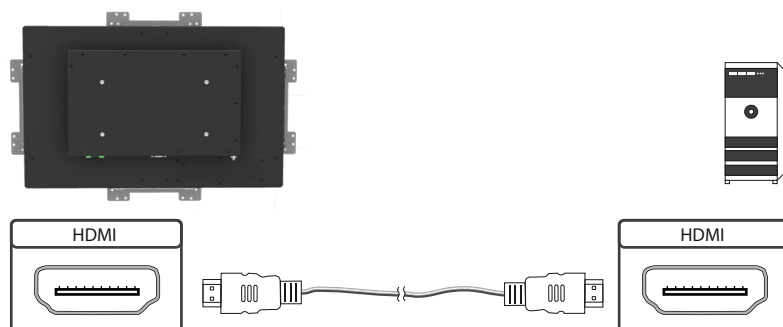
Connecting to a PC with DisplayPort cable
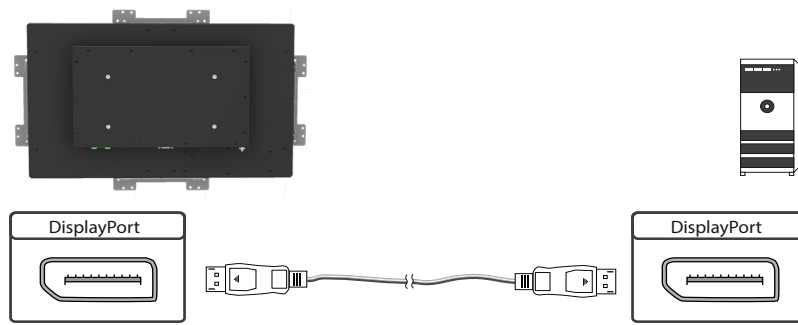
Connecting the Remote-OSD to a PC with USB cable
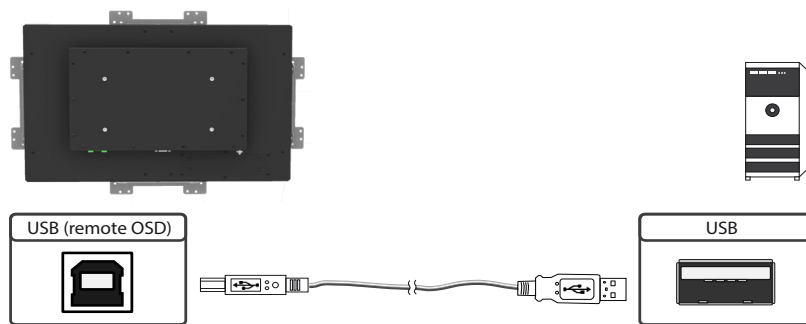
Connecting the touch to a PC with USB cable (for displays with touch sensor only)
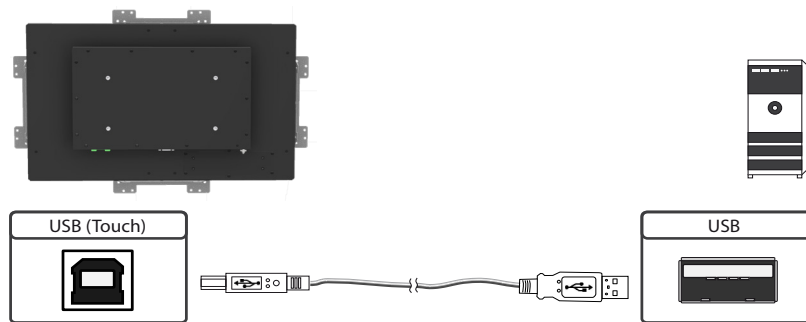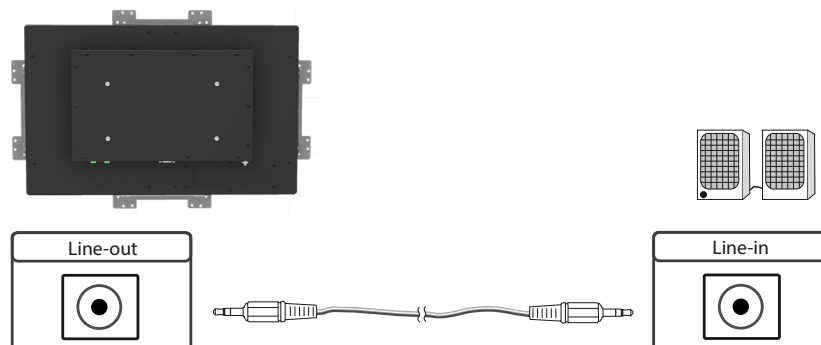

## Connecting active speakers with audio cable

Remote OSD control

You can control the monitor remotely from an external computer. To do this, connect the monitor and computer as described above a USB cable. Please read the instructions for the remote control, which you can find on our homepage: https://www.distec.de/en/service/downloads/monitore-downloads/.

OSD keyboard

The OSD functions of the monitor can be controlled via OSD key pad. The OSD allows the selection of the input source and the fine tuning of various functional parameters like brightness, contrast etc.
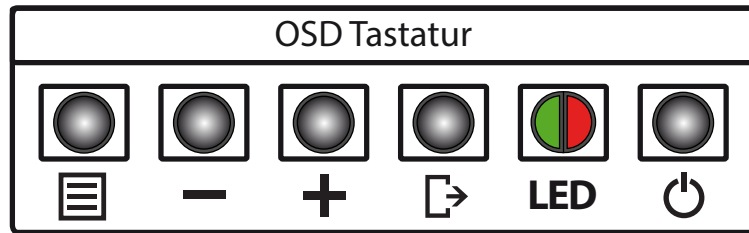
The six buttons of the OSD control can either be used:

→ To access various functions directly

→ To navigate within the OSD

The following two tables give an overview of the functions:

Direct functions:

Key	Function	Comment
Menu	Open the OSD menu	
—	Open volume control	
+	Open brightness control	
Exit	Select signal input	
Power	On/ Off	

Navigation in OSD menu:

Key	Function	Comment
Menu	Open sub menu	when in main
	Confirm entry	when in main
—	Cursor down	when in main or in sub menu
	Cursor/ slider to the left	when in main or in sub menu
+	Cursor up	when in main or in sub menu
	Cursor/ slider to the right	when in main or in sub menu
Exit	Leave OSD menu	when in main
	Leave sub menu	when in sub menu

The green/red LEDs (single package) on the external keypad show the current status of the board:

Color	Meaning	Remark
Green	Signal found	
Green blink	Search signal	
Red	Power safe mode	
LED off	Monitor off	

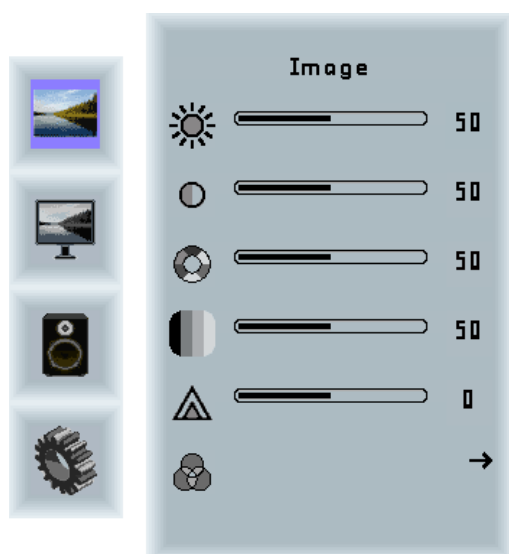## OSD menu

Image Menu

Brightness:	Panel brightness adjustment.
Contrast:	Panel contrast adjustment.
Hue:	Panel hue adjustment.
Saturation:	Panel saturation adjustment.
Sharpness:	Panel sharpness adjustment.
Color:	Opens the color sub menu.

Color Sub Menu

Auto:	Performs auto color adjustment.
Color Temp:	Allow selection of different color temperature schemes, predefined and custom. Available if color space of input is RGB.
Full color:	Selects full received color space.
SRGB:	Selects SRGB color space.
XVYCC:	Selects XVYCC color space.

Color Temp.

4200k	✕
5000k	✕
6500k	✕
7500k	✕
9300k	✕
user	→

Color Temp.

r	▭▭▭	50
g	▭▭▭	50
b	▭▭▭	50

Display

|		
👍		▶
〰〰	▭▭▭	50
♒	▭▭▭	50
✛		→
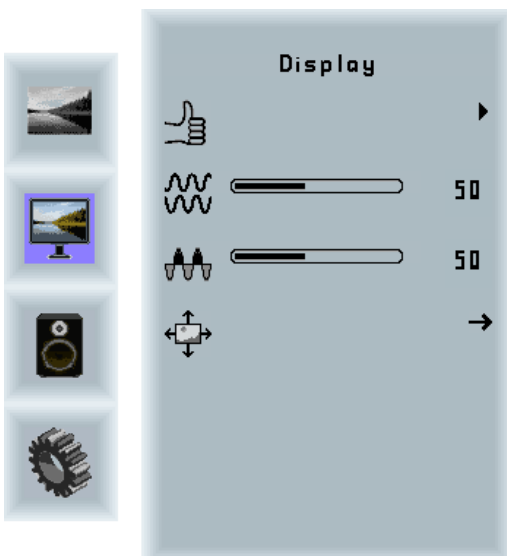
Display Menu

|	
Auto-adjust:	Performs auto-adjustment on the VGA input image.
Phase:	This function is a slider to adjust the sampling phase of the analogue interface. For optimum image quality, input pixels should be sampled at the ideal sampling points.
Clock:	This function is a slider to adjust the sample clock of the analogue interface. This is helpful for improving the image quality for non-standard display modes.
Position:	Used to modify the placement of the image.

Move Position

use arrows to
move image
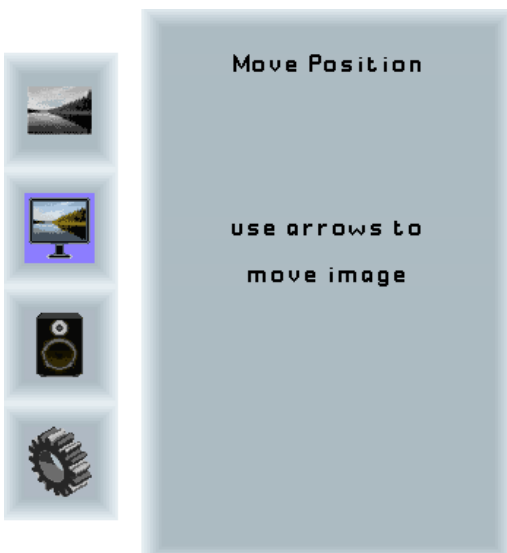
Move Position Sub Menu

Arrows:	Use arrow keys to move the position of the image on the screen.
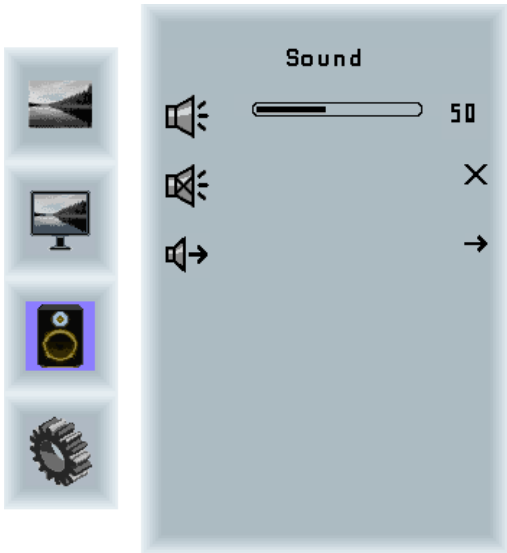
Sound Menu

Volume:	Slider bar to adjust volume.
Mute:	Mutes audio.
Output:	Chooses between speakers and head-phone. Only one can be active at a time (Speakers are not available for POS-Line monitors).

Output Sub Menu

Speakers:	Toggles speakers on/ off.
Headphone:	Toggles headphone on/ off.

System Menu

Input source:	Sub menu to select input source.
OSD settings:	Sub menu for OSD settings.
Factory reset:	Sub menu for Factory Reset.
EDIT settings:	Sub menu for EDIT settings.
FW Revision:	Firmware revision.
OSD Revision:	OSD revision.

Input Sub Menu

Input

Display Port ✓
VGA ✗
DVI/HDMI ✗

Auto Scan ✓
Signal info:
no sync

Display Port: Select display port as input signal.

VGA: Select VGA as input signal.

DVI/HDMI: Select DVI/ HDMI as input signal.

Auto Scan: Enable/ disable input auto-scan.

OSD Settings Sub Menu

Osd Settings

🕐 →
↻ MENU →
✛ MENU →
MENU MENU ▬▬▬▬▬▬ 50

Timer: Sub menu for timer settings.

Rotation: Sub menu for rotation settings.

Position: Sub menu for image position.

Transparency: Slider to set transparency.

Timer Sub Menu

Timer

3 sec. ✗
6 sec. ✗
12 sec. ✓

Timer: Selects how many seconds the OSD will remain active after the last use.
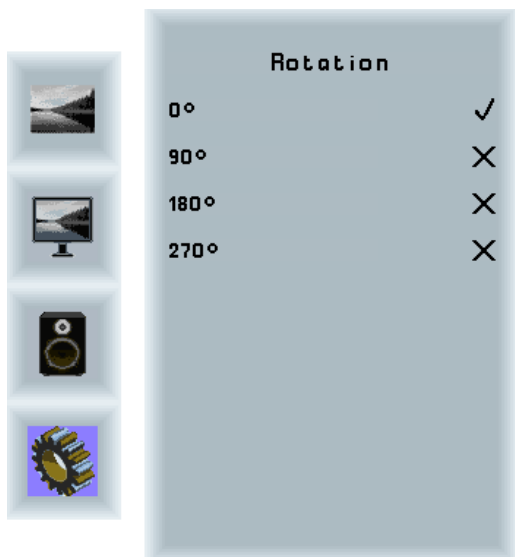
Rotation Sub Menu

Rotation: Rotates the OSD menu.

Reset Sub Menu

Reset: Performs factory reset.

EDID Write Protect Sub Menu

Write protect: EDID write protect on/ off.

8.   POS-Line IQ Celeron

Note: All the Celeron main board drivers you can find at: https://www.fortec-integrated.de/en/service/downloads/monitor-downloads/

Note: This POS-Line display is equipped with a battery. Please read the following instructions carefully:

→ Unplug the power cable before exchanging the battery.

→ There is a risk of explosion if the battery is not installed correctly.

→ Replace the battery always with a battery of the same type.

→ Recycle empty batteries with the free battery collection system. Please read the chapter "Disposal" of this document.

Note: If the option DS-91-823 is installed, the RS232 cable used at this interface (optional) may have a maximum length of 3.0 meters.

Passive cooling

The POS-Line displays of the IQ Celeron series (integrated PC) are with passive cooling (fan-less).

Passively cooled monitors conduct heat from the processor to the monitor housing. Passively cooled devices have no moving parts..

PC specifications

Please inform yourself current data sheet about the details of the PC specification of the IQ Celeron.
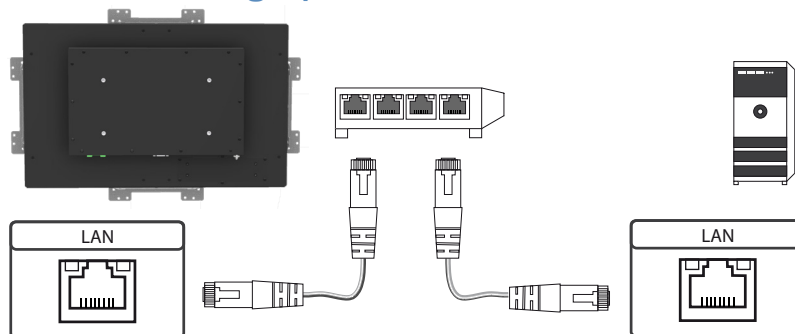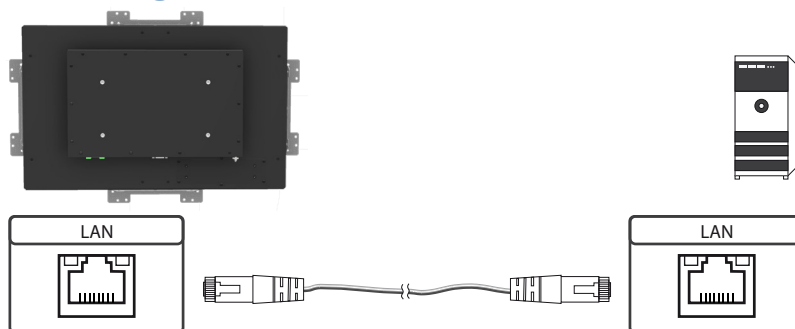
Connectors of POS-Line IQ Celeron series
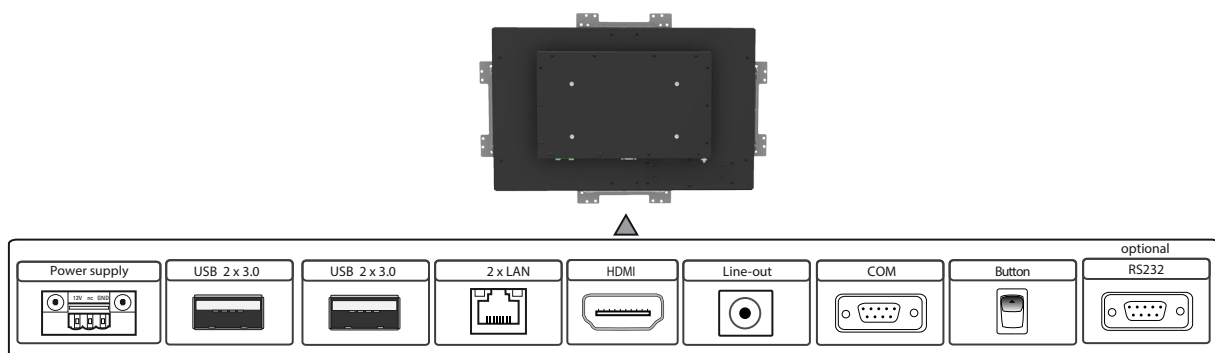
LED-display

→ upper LED lights yellow - HDD active
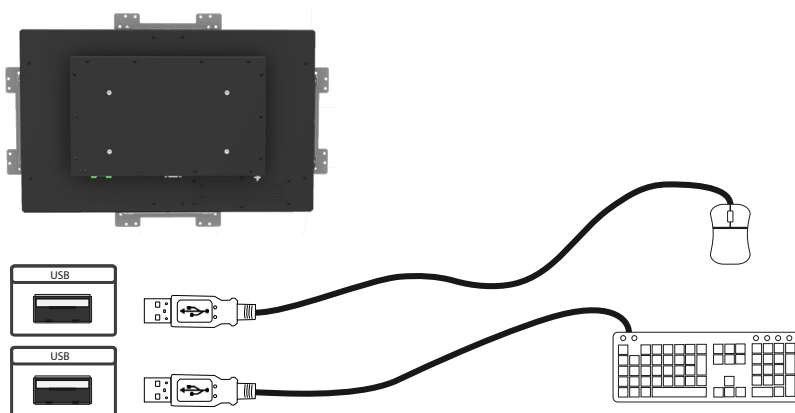
→ lower LED lights green - power on
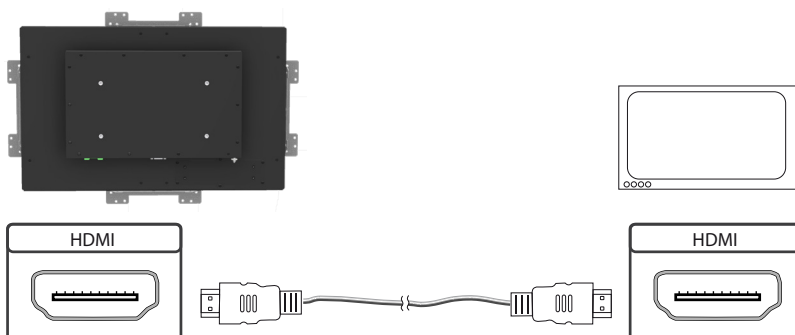
Connecting to a network using a patch cable

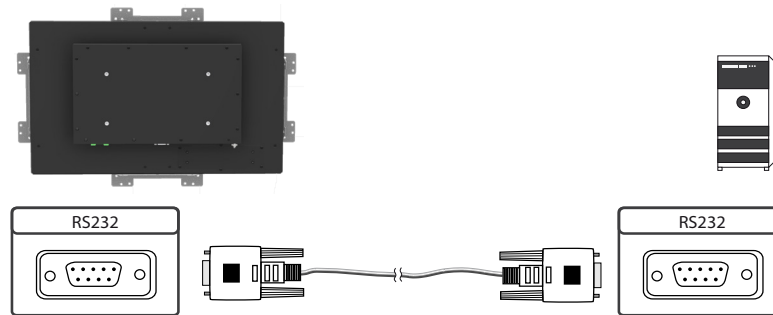## Connecting to a PC using a cross-over cable

Connecting keyboard and mouse with USB cable

## Connecting an external monitor with HDMI cable

Connecting an external PC with RS232 cable (optinally)

Power on/off

The display boots automatically after connecting to the power. Use the push button to switch the display on and off. If switched on, push the push button once to shut down the system. The panel is switched off. If switched off, push the push button once to turn on the display.
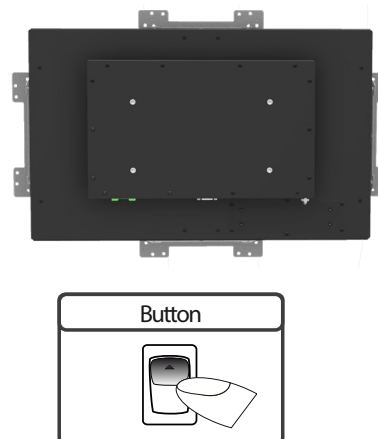
BIOS settings

A BIOS from American Megatrends Inc. (AMI BIOS) is installed on the PC main board. To change BIOS settings press the 'DEL' or 'Entf' key on your keyboard during the boot process of the PC.

Operating systems

An operating system is pre-installed if your POS-Line display has been ordered with this option. In this case all main board drivers or touch drivers are installed.

Activating the operating system:

→ Windows 10 IOT: This OS is already activated. The license key sticker can be found on the back side of the display.

→ Windows 10: This OS is not activated. The license key sticker is added to the product documentation. After switching on the display for the first time Windows will prompt for the key.

9. POS-Line IQ Core®-i

Note: All the main board drivers you can find at: https://www.fortec-integrated.de/en/service/downloads/monitor-downloads/

⚠️ Note: This POS-Line display is equipped with a battery. Please read the following instructions carefully:

⚠️ → Unplug the power cable before exchanging the battery.

→ There is a risk of explosion if the battery is not installed correctly.

→ Replace the battery always with a battery of the same type.

Passive cooling

The POS-Line displays of the IQ COre-i7 7th gen.series (integrated PC) are with passive cooling (fan-less).

Passively cooled monitors conduct heat from the processor to the monitor housing. Passively cooled devices have no moving parts.

PC specifications

Please inform yourself current data sheet about the details of the PC specification of the IQ Core-i5 7th gen..

Connectors of POS-Line IQ Core®-i5 7th gen. series
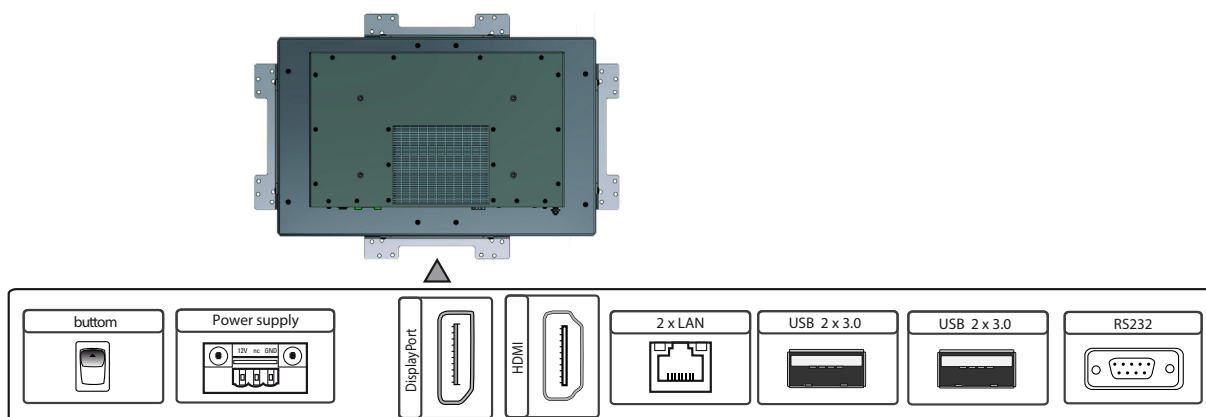
Connecting to a network using a patch cable
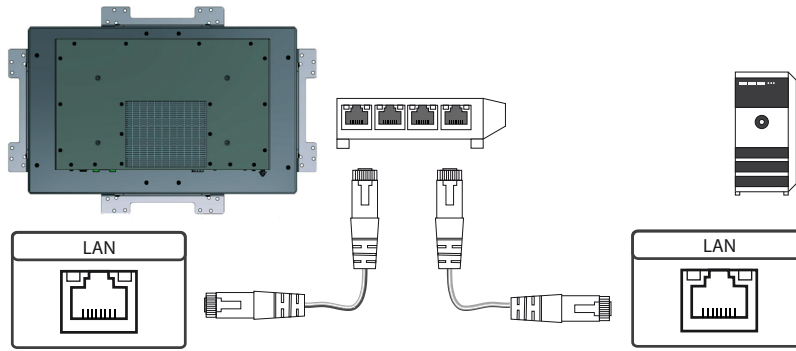
Connecting to a PC using a cross-over cable
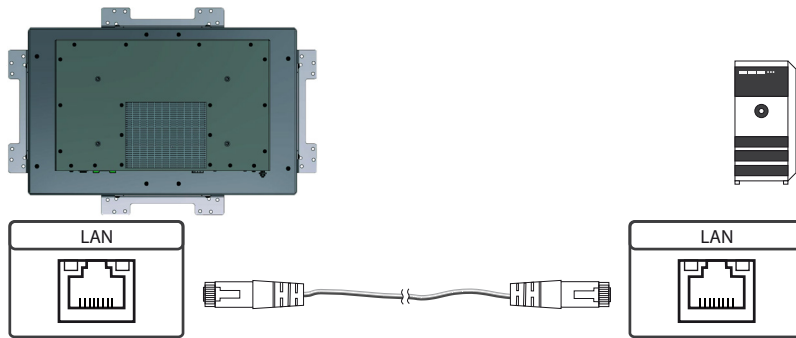
Connecting keyboard and mouse with USB cable
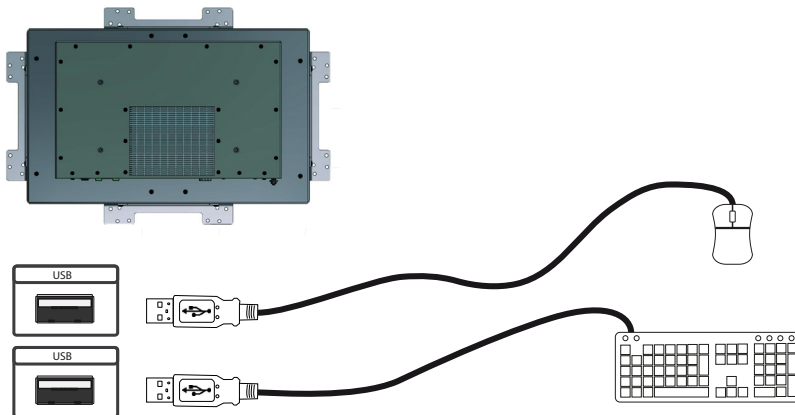
Connecting an external monitor with HDMI cable
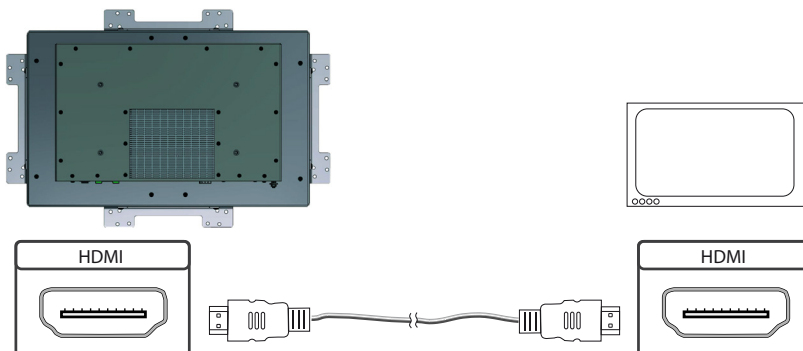
Connecting an external monitor with DisplayPort cable
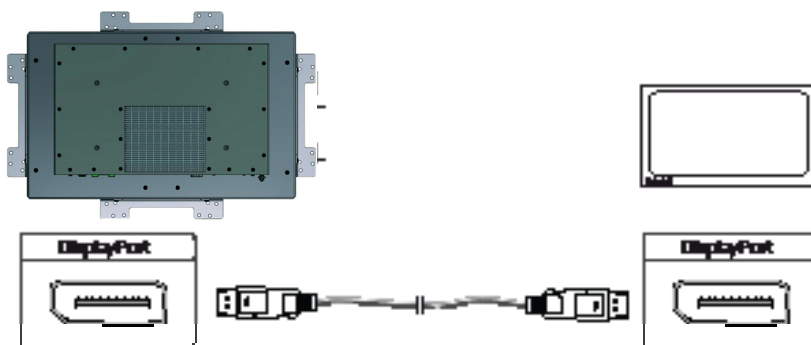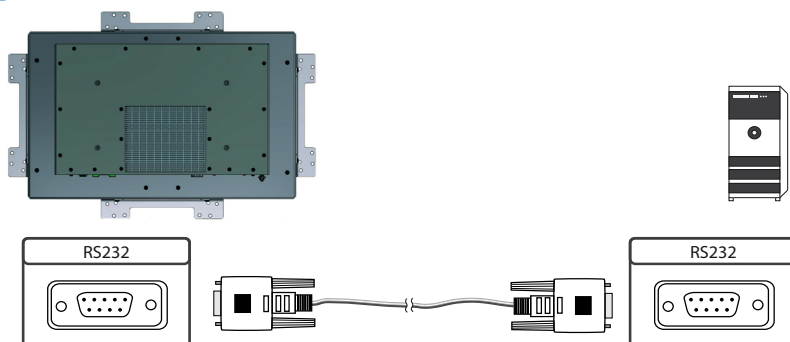
onnecting an external PC with RS232 cable

Power on/off

The display boots automatically after connecting to the power. Use the push button to switch the display on and off. If switched on, push the push button once to shut down the system. The panel is switched off. If switched off, push the push button once to turn on the display..
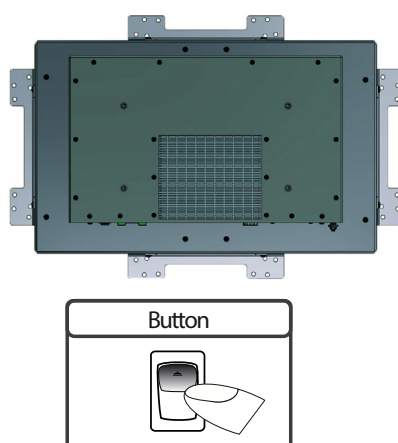
BIOS settings

A BIOS from American Megatrends Inc. (AMI BIOS) is installed on the PC main board. To change BIOS settings press the 'DEL' or 'F2' key on your keyboard during the boot process of the PC.

Operating systems

An operating system is pre-installed if your POS-Line display has been ordered with this option. In this case all main board drivers or touch drivers are installed.

Activating the operating system:

→ Windows 10 IOT: This OS is already activated. The license key sticker can be found on the back side of the display.

→ Windows 10: This OS is not activated. The license key sticker is added to the product documentation. After switching on the display for the first time Windows will prompt for the key.

10. POS-Line VideoPoster

⚠️ Note: Further information on media player, play list structure, handling, utilization and supporting software modules are available at
https://www.fortec-integrated.de/en/products/tft-controller/industrial-media-players/

⚠️ Note: This Gerhardt display is equipped with a battery. Please read the following information carefully:
→ Unplug the power cable before exchanging the battery.

→ There is a risk of explosion if the battery is not installed correctly.

→ Replace the battery always with a battery of the same type.

→ Recycle empty batteries with the free battery collection system. Please read the chapter "Disposal" in this document.

Connectors of POS-Line VideoPoster series
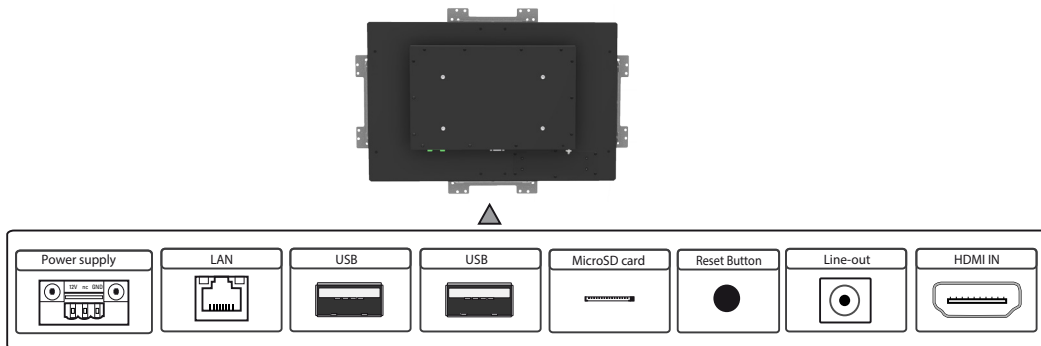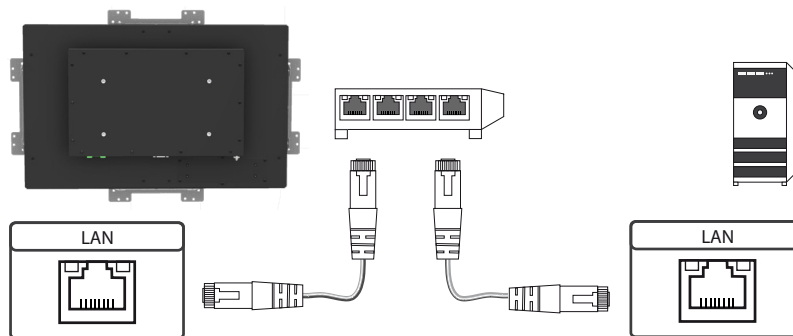
Connecting to a network using a patch cable

Connecting to a PC using a cross-over cable

LAN

LAN

Connecting an USB stick
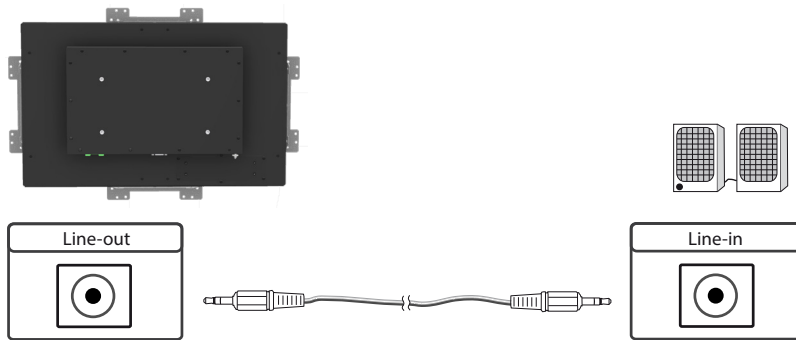
USB

Connecting active speakers

Line-out

Line-in

Connecting a signal source using a HDMI cable
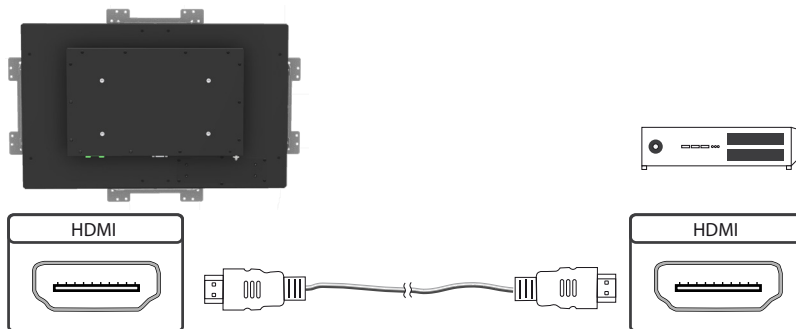
HDMI

HDMI

Connecting a signal source using a HDMI-DVI cable
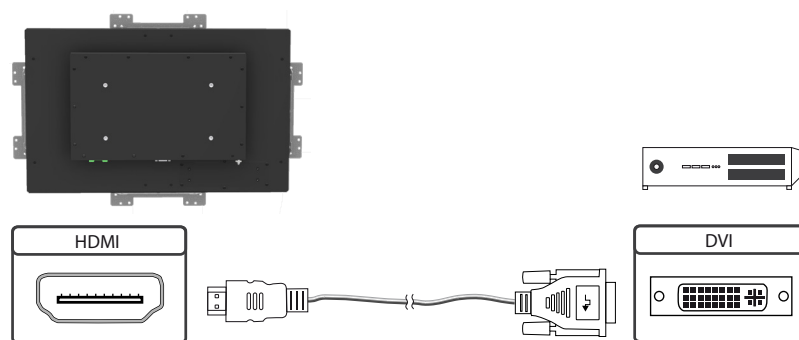
Factory configuration at the time of delivery

POS-Line VideoPoster is a network (Ethernet) device. Please note that inaccurate network configuration can have unintended influence on network operations and cause a breakdown of the entire network. To setup the device properly, you must be familiar with the basic operating parameters of your network.

Factory configuration of POS-Line VideoPoster at time of delivery:

→ DHCP: on

→ IP-Address: assigned by DHCP server (fallback to static IP address 192.168.0.1, if no DHCP server is available in the network)

→ Netmask: assigned by DHCP server (fallback to 255.255.255.0, if no DHCP server is available in the network)

→ Hostname: Videoposter-IV-xx-xx-xx (last 6 bytes of the devices MAC address)

→ Login Name: Artista

→ Password: Artista

→ Content auto update: off

MicroSD Card

The Mediaplayer stores its playlists on the internal 2GB memory. A microSD card, however, can be extended, if the internal memory is not enough. If a microSD card is plugged in, it must not be removed during operation!

Supported media formats

Video:

→ MPEG-4 AVC / H.264

→ Quicktime

→ Flash Video

→ MPEG Transport Stream

Still images:

→ PNG

→ JPG

→ BMP

Functional description

POS-Line VideoPoster is a networked stand alone media player to playback play lists. Operating systems or other client-based software components are not required. Play lists are based on a XML structure and can include videos and images. The media player controlls the play list. A play list is looped endlessly until a new play list is loaded or the player is switched off. A play list may contain several sub play lists which can be triggered by an internal timer or other external events like push buttons or proximity switches (optional external I/O board).

POS-Line VideoPoster does not need any local operation. As soon as a play list is loaded, the media player will automatically start with playback. Power can be switched off at any time, a shut down procedure is not required. After power on, the media player will automatically playback the current play list.

Connecting an external source with priority

An external source like video player or sat receiver can be connected to the POS-Line VideoPoster via HDMI. If priority of the HDMI connector has been activated, the playback of the play list will stop as soon as a HDMI signal is detected. In this case, the HDMI signal is shown on the screen. If the external player is switched off, the media player will automatically start or continuing playing back the internally stored play list.

Software

The following software and accompanying documentation were made available to you by e-mail:

ACC: Windows software to create play lists for POS-Line VideoPoster devices. Use ACC to transfer play lists to VideoPoster, and to store play lists on USB sticks for manual transfer.

ADF: Windows software to support installation and configuration of VideoPoster devices. Connect your VideoPoster as shipped (factory configuration) to the network. ADF will detect all VideoPosters and allow an easy configuration of the network parameters.

Downloading play lists

There are basically four methods to download play lists:

Via USB: If a USB stick with a playlist is inserted into the Mediaplayer, it is loaded and started automatically. In this operating mode, a network connection is not necessary..

Via ACC: This is a free software for Windows to create play lists and to upload play lists to one or more media player in the network.

Via FTP Server: The media player connects to a FTP server in configurable time intervals and searches for new playlists. The differences between the existing and the new playlist are loaded automatically and playback of the new content starts.

Via HTTP-Protocol: Use HTTP protocol to transfer and control VideoPoster from any existing Content Management System.

Configuration

Use any Internet browser like Firefox, Internet Explorer, Chrome, etc. for the configuration of the VideoPoster. Enter the URL (i.e. IP address or network device name) to open the device's web interface. Please enter the password if required (factory settings: Login name: Artista; Password: Artista).

Layout of the web interface:

Information

System Information:	Here you can find all the information about the system like software revision. In case of a support request please add a printout of this page to your mail for a fast processing.
View Logs:	VideoPoster creates log files to allow an easy monitoring of operations. The following log files are available: Player – shows the log file of the video player and error messages. Updater – shows the log file of content updates and error messages. Setup Manager – shows the list of executed setup files. Event Manager – shows error messages of the event manager.

Configuration

Network Configuration:	This page includes all entries for the network configuration. Click on „Submit Configuration" to store the settings and change the configuration. Clicking on „Reset Configuration" deletes all entries in the web page but does not change the configuration.
Date and Time:	Enter date, time and time zone. Enter a network time server for automatic synchronization (NTP).
Content Auto Update:	To configure automatic content updates with FTP server, enter the FTP server access information and update time interval here.
Audio Settings:	Volume settings for speakers.
Display Settings:	Panel brightness settings.
HTTP Access:	Enter password. It is recommended to change the password after installation.
Advanced:	Firmware updates, microSD card (optinal) formating,reset of hardware configuration to factory defaults and priority setting for HDMI input.

Restart

Restart:	Media player restart.

On-screen display of IP-address and host name

IP-address and host name are shown on the screen for 5 seconds during the boot process.

11. POS-Line IoT

The POS-Line IoT monitor is equipped with the Raspberry® Pi compute module 3+ (CM3+). The specification can be found under the following link:

https://www.raspberrypi.org/products/compute-module-3-plus/

⚠️ Note:

The full driver package for the IoT monitor can be found an: https://www.fortec-integrated.de/en/service/downloads/monitor-downloads/.

The device is equipped with a battery. Please note the following:

→ Disconnect the devise from the power supply before replacing the battery.

→ If the battery is not replaced properly there is a risk of explosion.

→ Always replace the battery with another one of the same type.

→ Supply empty batteries to the local waste battery return system. Please also observe the notes in chapter „Disposal".

Passive cooling

Monitors of the POS-Line IoT series are equipped with a passive cooling system. Passively cooled monitors divert the heat of the processor to the monitor's housing. Passively cooled devices have no moving parts.

Spezification

Please refer to the current data sheet for the details of the IoT monitor specification.

Connectors of POS-Line VideoPoster series
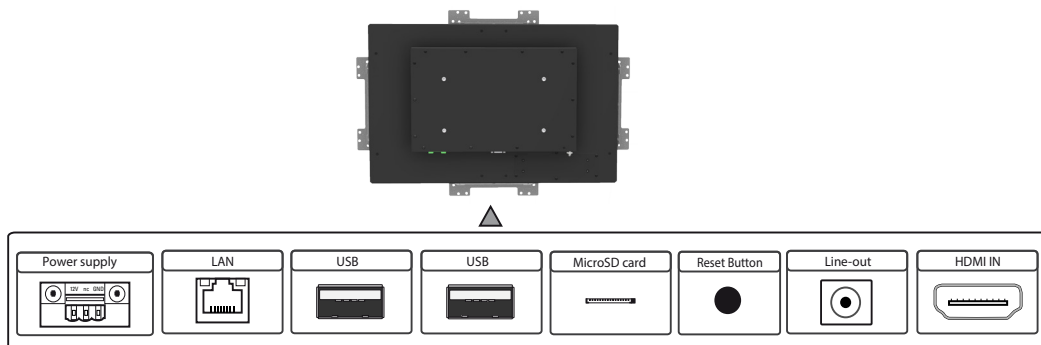
Connecting to a network using a patch cable

Connecting to a PC using a cross-over cable

LAN

LAN
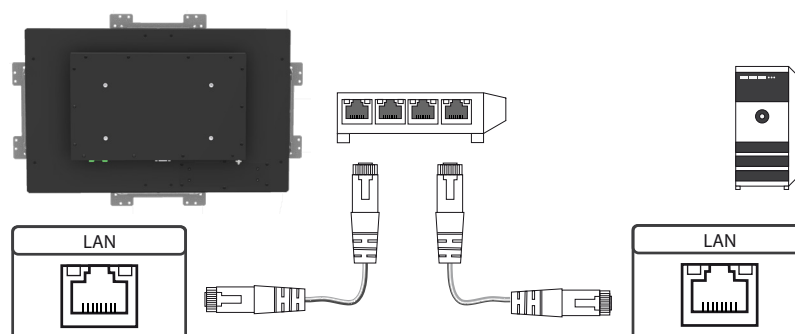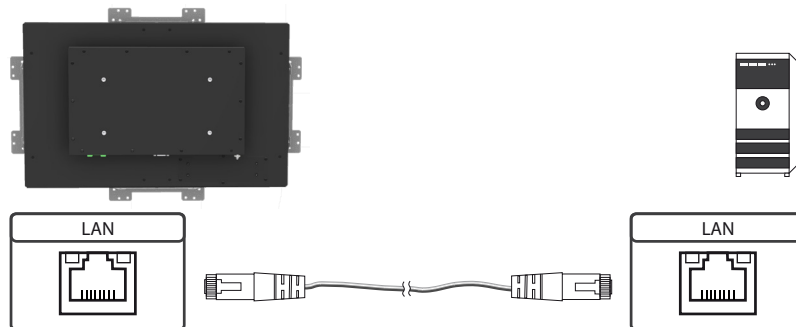
Connecting to an USB stick
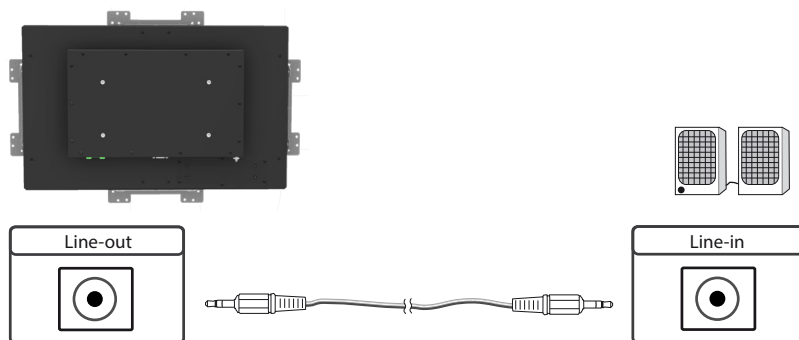
USB

Connecting active speakers

Line-out

Line-in

Connecting a signal source using a HDMI cable
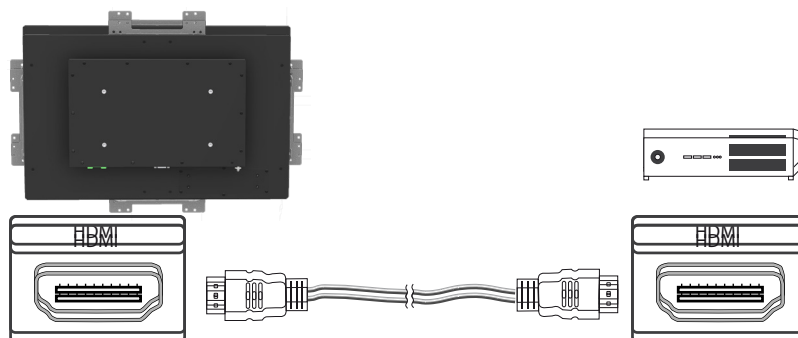
HDMI

HDMI

Connecting a signal source using a HDMI-DVI cable
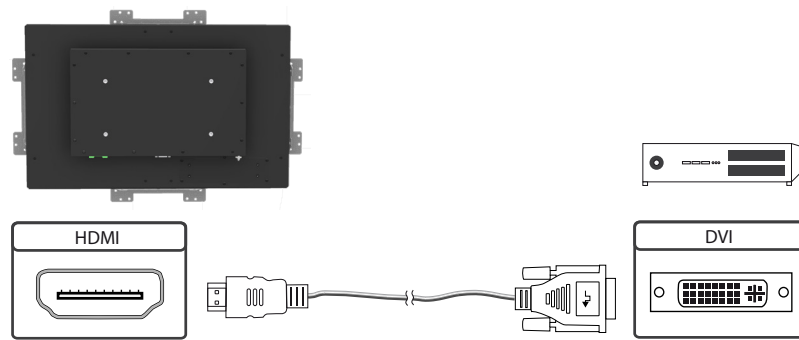
Switch on/ off

After the supply voltage has been applied, the IoT monitor starts automatically. To switch off, you must select „Shut down" in the operating system.

Operating systems

The IoT Monitor comes with the operating system Raspbian, which is equipped with all necessary drivers. This operating system is the official version of the community, reduced to the internal memory of the compute module. It is only used for the first commissioning of the monitors.

The IoT Monitor can be equipped and programmed by the customer with its own operating system/ image. For this, the USB port on the back of the monitor can be used, which is located under the black sticker on the cover (arrow).
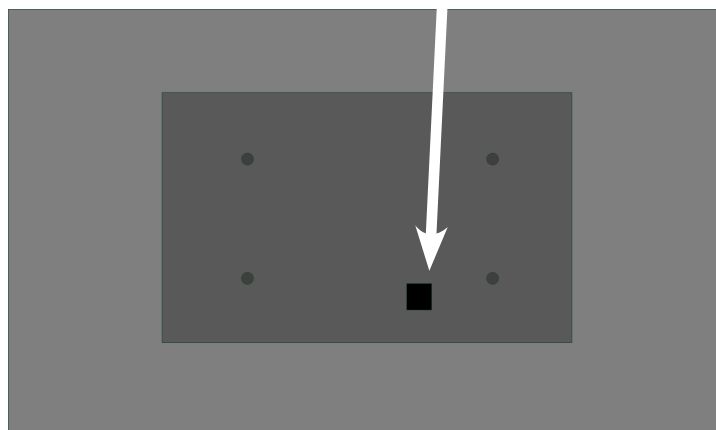
A guide for the integration of an image can be found on the enclosed DVD or on our homepage:

https://www.fortec-integrated.de/en/products/tft-controller/iot-industry-40-raspberry/

In the community of Raspberry® Pi (https://www.raspberrypi.org/forums/) you can find many problem-solving and help to integrate and create your own system.

12.   WebPoster

Connections and controls

WebPoster are POS-Line IOT devices with a special firmware, so the ports and operating in the corresponding chapter must be observed. Connecting a mouse and keyboard is not supported with this firmware.

Functional description

The Industrial HTML Full HD Player is a complete solution for viewing Web pages. The website can be configured via a web interface. At the start of the device is automatically display.

Configuration of the media player on delivery (factory configuration)

This device is a LAN (Ethernet) enabled device. Please note that an incorrect network configuration the device may affect the safe operation of the entire network and in the worst case of a network failure leads. To set up the device for a specific network, you need the key operating parameters of the network be known. The POS Line WebPoster is shipped from the factory with the following configuration:

→   DHCP: on

→ IP-Address: 192.168.0.1*

→ Netmask: 255.255.255.0

→ Hostname: WebPoster-xx-xx-xx (the last 6 bytes of the MAC address of the device)

→ Login Name: Artista

→ Password: Artista

*If no DHCP server is found, this IP address is assigned automatically.

Supported site formats
→ HTML5

→ JavaScript

Software

On our website you will find software and related documentation: https://www.fortec-integrated.de/en/service/downloads/webposter-downloads/.
ADF: A program that simplifies the installation and configuration of HTML players. Connect any HTML player in the factory configuration to the network and start ADF. It displays all the HTML players in a list. Select the devices one by one and remove the network configuration.

Configuration of the media player

The configuration of the HTML player can work with any standard web browser (Firefox, Internet Explorer, Chrome, etc.) are performed. Connect the HTML player to a network and enter to establish the connection URL (eg. as IP address or network name) in the browser. Now open the WEB interface. If you are prompted for the password, enter the password (factory setting: Login name: Artista; password: Artista).

Layout of the web interface::

Configuration

Network Configuration: The configuration of the network is the first step in setting up.
Submit Configuration: With Submit Configuration the entries will be accepted.
Discard Changes: With Discard Changes be deleted entries in the fields.
                        However, this has no influence on the current configuration.
Browser Settings: The configuration of the Web page to display is the second step of the device.
                        Here the web page can be entered and a „Reload Interval (seconds)" can be defined.
Submit Configuration: With Submit Configuration the entries will be accepted.
Discard Changes: With Discard Changes be deleted entries in the fields.
Change Password: Here, the default password can be changed.

Information

System Information: This page contains all details about the system, such as, for example, the software
                        version. If you contact our Support please add this page to your E-Mail to ensure a
                        fast response.

Restart

Restart: Restart of the media player.

Display of IP address and hostname

When booting the HTML player's current IP address and the host name of the HTML player is displayed on the screen for about 5 seconds.

13.   Maintenance

Systems with active cooling require cleaning of ventilation slots every 6 months. Systems with passive cooling must be cleaned every 12 months.

14.   Guarantee / Service

Guarantee

Fortec Group grants a manufacturer's guarantee of two years from the date of delivery.

The rendering of guarantee claims shall neither extend nor restart the guarantee period.

During the guarantee period, Fortec Group shall repair product faults based on material or production defects. The guarantee service is executed at Fortec Group's discretion through repair, replacement of defective parts or by exchanging a product for a product of equal quality without charging the customer for material or labor.

Guarantee claims are only accepted, if Fortec Group receives notification of a defective product within the guarantee period and the product is presented to the Fortec Group Service Centre together with all information as specified in the RMA process.

Guarantee Exclusions and Limitations

This guarantee does not apply to any defect for which Fortecy Group is not responsible and which includes, but is not limited to the following:

- → Unauthorized opening or disassembling of the product
- → Faulty maintenance by non-observation of maintenance instructions
- → Inappropriate storage or cleaning of the product
- → Unauthorized modification of the product
- → Incorrect use or misuse
- → Non-observation of operating and installation instructions
- → Permanent display of fixed images (causing image retention or image sticking)
- → Operating the product in conditions which exceed the limitations of the specification
- → Use of inappropriate boxes, packaging or modes of shipment
- → Force majeure like fire, acts of war, acts of violence, chemical or biological impacts, lightning strikes, over voltage or similar events
- → Fault resulting from the use of software which was not originally supplied with the product or which is incorrectly installed
- → Normal wear and tear and wearing parts (i.e. LCD panel)

Mechanical damages like scratches, pressure or break points are excluded from this guarantee.

This guarantee does not include accessory parts which are not integral part of the product (as boxes, batteries).

Pixel errors only constitute a fault under the terms of this guarantee if they deviate from the product specification (i.e. ISO 9241-307 pixel failure class II).

Display Quality - Prevention of after image burn in effects

After image burn-in means that an image or part of an image (i.e. logo) remains visible on the screen even if the image on the screen is changed. This should not occur if the LCD panel is operated in normal conditions with changing content. To prevent burn-in effects please follow the following guidelines.

→ Do not display fixed patterns for an extended time period of more then 12 hours.

→ Power-off the monitor for 4 hours after using it for 20 hours, and for 2 hours after using it for 12 hours.

→ Use the power scheme and power management of the PC.

→ Use plain-colored screen savers.

→ Avoid patterns with a strong difference in brightness and contrast.

→ Avoid gray colors.

→ Change images and logos regularly. Show animated pictures for 60 seconds after 4 hours of operation.

→ The best way to protect your display is to switch the monitor off when not in use or to use screen savers.

Non-observance of these guidelines may have effects on warranty.

Guarantee Processing

Group RMA process. In order to avoid unnecessary charges, it is important to adhere to the RMA regulations.

Products must be appropriately and professionally packed for a safe return to the Fortec Group Service Centre. Products with panel sizes equal or larger then 81 cm (32") must be shipped on pallets in upright position.

Fortec Group does not assume liability for any customer data stored on products which are returned to Fortec Group.

Limitations of Liability and Benefits

With this guarantee declaration, Fortec Group exclusively guarantees that the product is free of material and manufacturing faults.

Fortec Group does not issue any other guarantee or similar statements other than this declaration.

This guarantee does not impair or affect a buyer's statutory claim against the seller due to material damage. Such claims can be asserted instead of the guarantee agreed to here at the buyer's discretion.

Mandatory legal rights and mandatory claims under the German Product liability remain unaffected.

Applicable Law and Place of Jurisdiction

The laws of the Federal Republic of Germany apply.

Place of jurisdiction is Munich.

Service addresses

| Germany	Great Britain	USA
FORTEC Integrated GmbH Werk Kindel Am Künkelhof 4 99820 Hördelberg-Hainich +49 3 69 20 71 62-0 support@fortec-integrated.de	FORTEC Technology UK Ltd. Osprey House, 1 Sprey Court Hichingbrooke Business Park Huntingdon, Cambridgeshire PE29 6FN +44 14 80 41 16 00 info@FORTEC.uk	Apollo Corp. 87 Raynor Avenue, Unit 1 Ronkonkoma NY 11779 +1 63 15 80-43 60 info@apollodisplays.com

Please go to the following web address for further information about our RMA regulations and RMA forms: https://www.fortec-integrated.de/en/service

15. Disposal

Disposal of old devices

If the acquired Distec product is to be disposed of, must be implemented into national law the Directive 2012/19/EU.
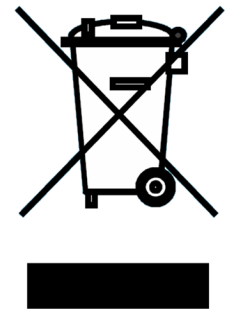
Disposal of batteries

Applicable in all countries of the EU and in countries with separate battery collection systems.

The Batteries in this product should not be disposed with other household waste. The chemical symbol Pb, CD or Hg indicate that the battery contains lead, cadmium or mercury above the reference level in EC directive 2012/19/EG.

Batteries which are not disposed correctly can cause harm environment and health.

Our environment is close to our hearts. Please help us to protect our environment and recycle empty batteries with the free battery collection system.
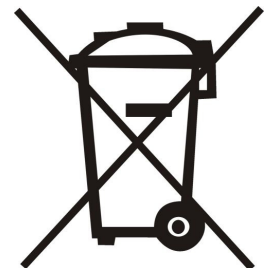
16. Declaration of Conformity

Declaration

Hereby the Distec GmbH declared that the unit EU is in compliance with the essential requirements and other relevant provisions of Directives 2014/30/EU and 2011/65/EU.

If you need a CE declaration of conformity, please request it from support on our website: https://www.distec.de/en/service/technical-support/.

FCC-Declaration of conformity

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Canadian Department of Communications Compliance Statement

This Class A digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Observation des normes-Class A - Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

FCC Information:

- Changes or modifications not expressly approved by Distec GmbH could void the user's authority to operate the equipment.

- Use the attached specified cables with the POS-Line monitor so as not to interfere with radio and television reception.

- Please use the supplied power cord or equivalent to ensure FCC compliance.

- Please use the supplied shielded video signal cable, Mini D-SUB 15 pin to Mini D-SUB.