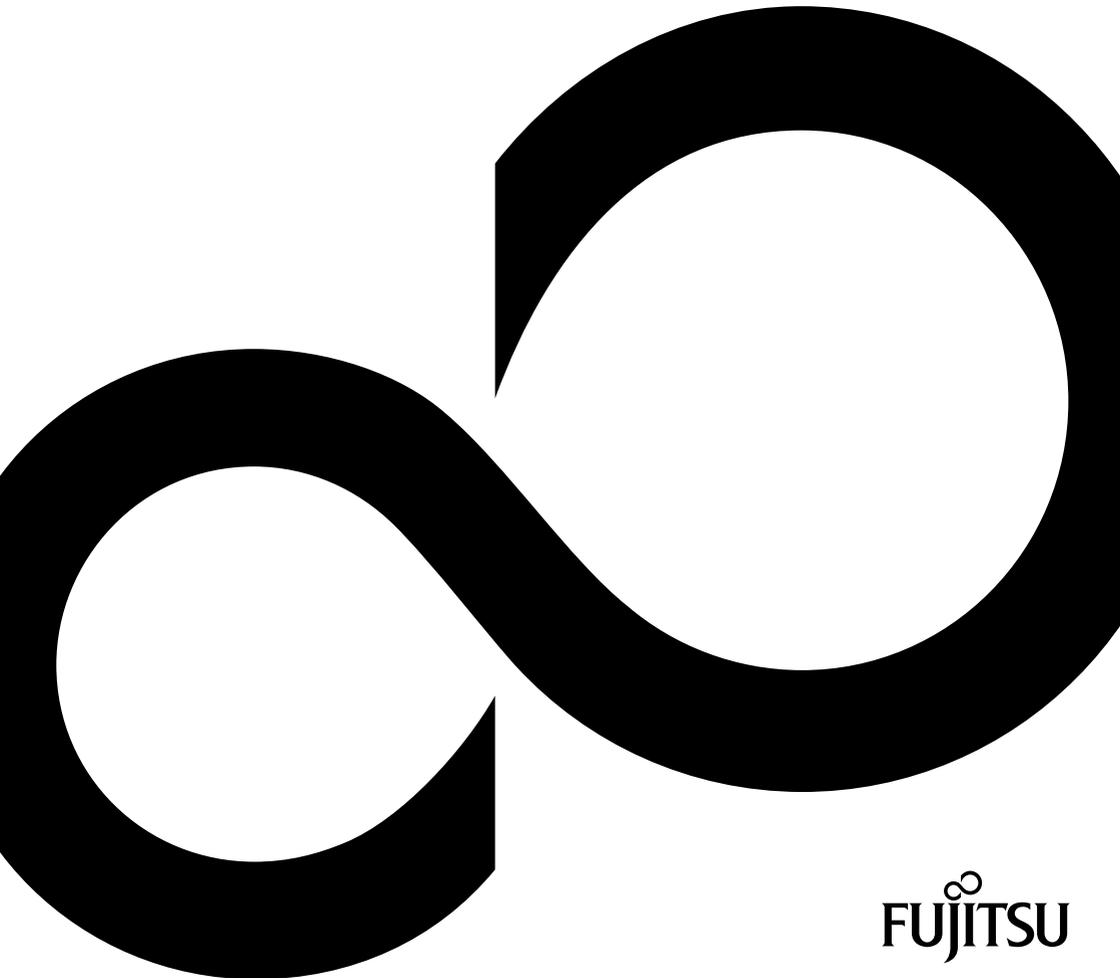


FUJITSU Display E22 Touch



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Published by / Contact address in the EU

Fujitsu Technology Solutions GmbH

Mies-van-der-Rohe-Straße 8

80807 Munich, Germany

<http://www.fujitsu.com/fts/>

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FUJITSU Display E22 Touch

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Remarks

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For your safety

Before operating the monitor, please read this manual thoroughly. This manual should be retained for future reference.

CE marking

The shipped version of this device complies with the requirements of European Union directives 2004/108/EC "Electromagnetic compatibility", 2006/95/EC "Low voltage directive" and 2009/125/EC "Ecodesign Directive".

FCC Class B Radio Frequency Interference Statement

WARNING: (FOR FCC CERTIFIED MODELS)

NOTE:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

NOTICE:

- The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
- Shielded interface cables and AC power cord, if any, must be used in order to comply with the emission limits.
- The manufacturer is not responsible for any radio or TV interference caused by unauthorized modification to this equipment. It is the responsibilities of the user to correct such interference.

WARNING:

To prevent fire or shock hazard, do not expose the monitor to rain or moisture. Dangerously high voltages are present inside the monitor. Do not open the cabinet. Refer servicing to qualified personnel only.

WEEE Declaration



Disposal of waste equipment by users in private household in the European Union.

This symbol on the product or on its packaging indicates that this product must not be disposed of with your other household waste. Instead, it is your responsibility to dispose of your waste equipment by handling it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

Precautions

- Do not use the monitor near water, e.g. near a bathtub, washbowl, kitchen sink, laundry tub, swimming pool or in a wet basement.
- Do not place the monitor on an unstable cart, stand, or table. If the monitor falls, it can injure a person and cause serious damage to the appliance. Use only a cart or stand recommended by the manufacturer or sold with the monitor. If you mount the monitor on a wall or shelf, use a mounting kit approved by the manufacturer and follow the kit instructions.
- Slots and openings in the back and bottom of the cabinet are provided for ventilation. To ensure reliable operation of the monitor and to protect it from overheating, be sure these openings are not blocked or covered. Do not place the monitor on a bed, sofa, rug, or similar surface. Do not place the monitor near or over a radiator or heat register. Do not place the monitor in a bookcase or cabinet unless proper ventilation is provided.
- The monitor should be operated only from the type of power source indicated on the label. If you are not sure of the type of power supplied to your home, consult your dealer or local power company.
- The monitor is equipped with a three-pronged grounded plug, a plug with a third (grounding) pin. This plug will fit only into a grounded power outlet as a safety feature. If your outlet does not accommodate the three-wire plug, have an electrician install the correct outlet, or use an adapter to ground the appliance safely. Do not defeat the safety purpose of the grounded plug.
- Unplug the unit during a lightning storm or when it will not be used for long period of time. This will protect the monitor from damage due to power surges.
- Do not overload power strips and extension cords. Overloading can result in fire or electric shock.
- Never push any object into the slot on the monitor cabinet. It could short circuit parts causing a fire or electric shock. Never spill liquids on the monitor.
- Do not attempt to service the monitor by yourself; opening or removing covers can expose you to dangerous voltages and other hazards. Please refer all servicing to qualified service personnel.
- To ensure satisfactory operation, use the monitor only with UL listed computers which have appropriate configured receptacles marked between 100 - 240V AC, Min. 5A.
- The wall socket shall be installed near the equipment and shall be easily accessible.

Special Notes on LCD monitors

The following symptoms are normal with LCD monitor and do not indicate a problem.

- You may find slightly uneven brightness on the screen depending on the desktop pattern you use.
- The LCD screen has effective pixels of 99.99% or more. It may include blemishes of 0.01% or less such as a missing pixel or a pixel lit all of the time.
- Due to the nature of the LCD screen, an afterimage of the previous screen may remain after switching the image when the same image has been displayed for a long time. The monitor will slowly recover from this.
- When the screen becomes black or flashing, or cannot illuminate any more, contact your dealer or service center to replace parts. Don't repair the screen by yourself!



To avoid the risk of fire, the E22 TOUCH Monitor must only be used with the original power supply unit: ADPC1965

The supplied AC/DC power supply unit must only be used with the E22 TOUCH Monitor.

Before you operate the monitor

Features

- 54.7 cm (21.5") 16:9 TFT Color LCD Monitor
- Crisp, Clear Display for Windows
- Recommend Resolutions: 1920 x 1080@60Hz
- Multi-touch Screen
- Ergonomic Design
- Space Saving, Compact Case Design

Packing list

The product package should include the following items:

- LCD Monitor
- Safety Manual
- Power Supply
- Power Cord
- D-SUB Cable
- DVI Cable
- USB Cable
- Audio cable
- CD with software and documentation

Installation instructions

Power cord

- ▶ Please make sure using the correct power cord in your area.
- ▶ This LCD monitor has an External universal power supply that allows operation in either 100/120V AC or 220/240V AC voltage area (no user adjustment is required).
- ▶ Connect the AC-power cord into your LCD monitor's power input socket. The AC-power cord may be connected to either a wall power outlet or the power outlet socket on your PC, depending on the type of power cord supplied with your LCD monitor.

Transporting the device



Transport all parts separately in their original packaging or in a packaging which protects them from knocks and jolts, to the new site.

Do not unpack them until all transportation manoeuvres are completed.

If the device is brought from a cold environment into the room where it will be used, condensation may occur. Before operating the device, wait until it is absolutely dry and has reached approximately the same temperature as the installation site.

Cleaning the device



Switch off the device and unplug the power plug.

Do not clean any interior parts yourself, leave this job to a service technician.

Do not use any cleaning agents that contain abrasives or may corrode plastic.

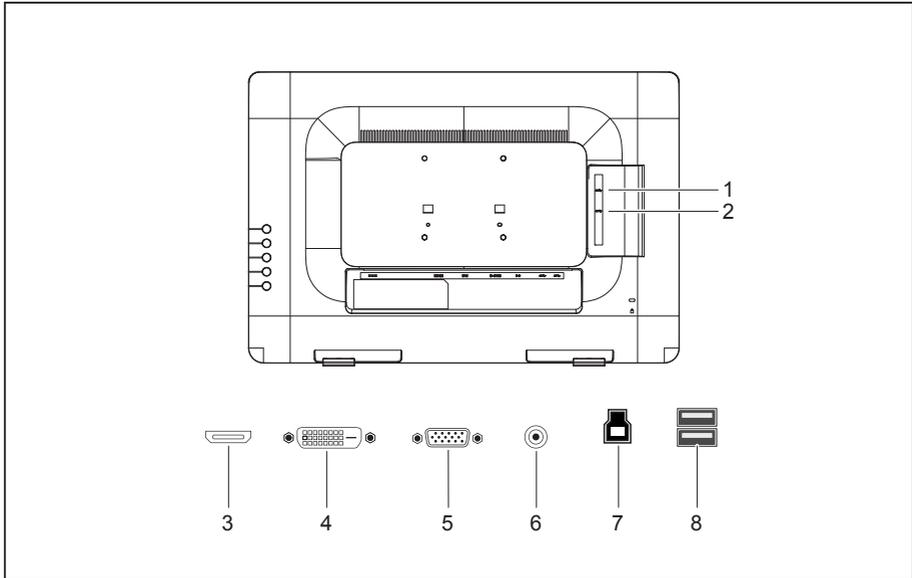
Ensure that no liquid enters the device.

The display surface of the device is sensitive to pressure and scratches. Clean it only using a soft, slightly moistened cloth.

The surface of the casing can be cleaned with a dry cloth. If particularly dirty, use a cloth that has been moistened in mild domestic detergent and then carefully wrung out.

Controls and connectors

- ▶ Connect video cable to the monitor and the computer (VGA, DVI or HDMI).
- ▶ Connect the AC power cable to the power supply and the wall outlet (grounded). Then connect the power supply to the monitor.
- ▶ Connect the USB cable to the monitor and the computer.



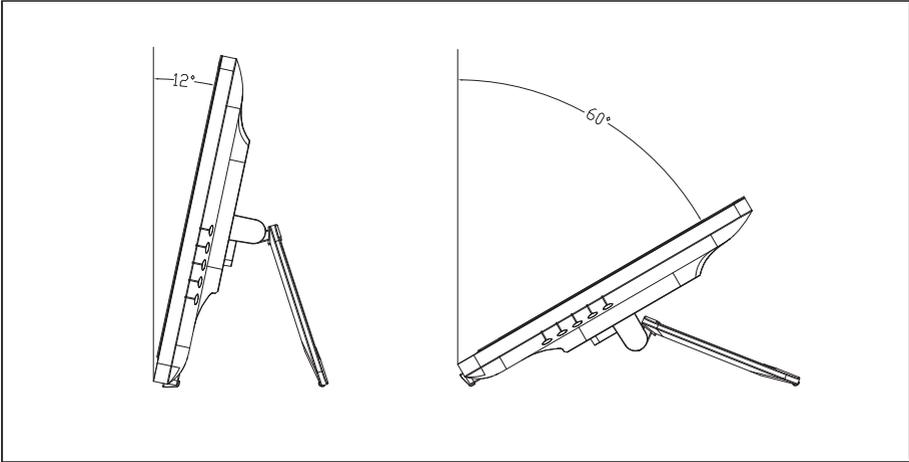
- 1 = USB (Downstream)
- 2 = USB (Downstream)
- 3 = HDMI Signal input
- 4 = DVI Signal input

- 5 = D-SUB Signal input
- 6 = Audio Input
- 7 = USB (Upstream)
- 8 = USB (Downstream)

Adjusting the viewing angle

For optimal viewing, it is recommended to look at the full face of the monitor, then adjust the monitor's angle to your own preference.

- ▶ Hold the stand so you do not topple the monitor when you adjust the monitor's angle. You are able to adjust the tilted angle from 12° to 60°.



Do not touch the LCD screen when you adjust the angle. It may cause damage or break the LCD screen.

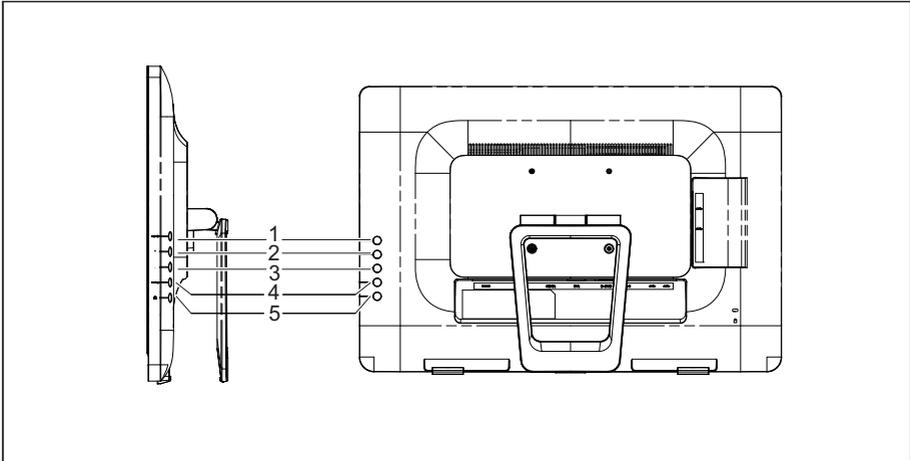
Careful attention is required not to catch your fingers or hands when you adjust the angle

Operating instructions

General instructions

The monitor functions can be controlled with the On Screen Display.

Current setting will be saved and OSD will be turned off when the keys are not touched for a period of time (see chapter "On Screen Display", page 10).



- 1 = Auto Config / SOURCE / EXIT
- 2 = + / Volume
- 3 = - / ECO
- 4 = MENU
- 5 = Power button

On Screen Display

Auto Configuration button / SOURCE / EXIT

- ▶ When OSD menu is off, press to select input from external sources.

When VGA is selected, the first time also the Auto Adjustment function will be invoked in order to optimize the H.Pos, V.Pos, Clock and Focus.

- ▶ When OSD menu is on, press to leave submenu or to exit the OSD menu.

+ / Volume

- ▶ When there is no OSD, press Volume button to active volume adjustment bar.
- ▶ Press - or + to adjust volume.

- / ECO

- ▶ Press to activate the ECO function and adjust the Image Ratio when the OSD is OFF.
- ▶ Press to navigate through adjustment icons when OSD is ON or adjust a function when function is activated.

MENU / ENTER

- ▶ Press to start OSD menu or enter submenu.

Power Button

- ▶ Press to switch the monitor on or off.

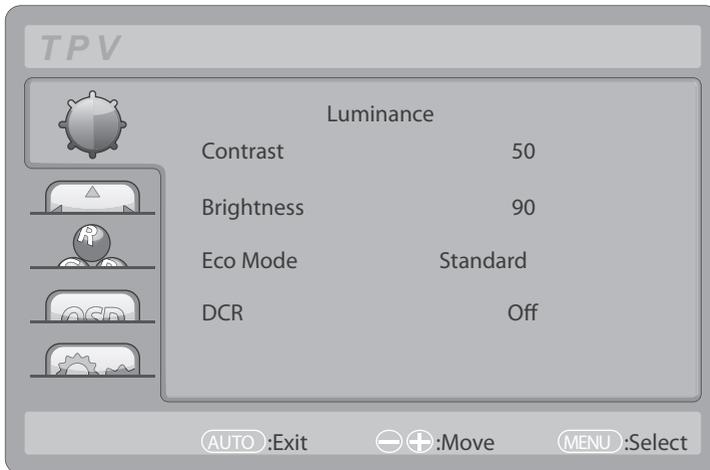
Power Indicator

Power indicator	Status
Blue	Power On mode
Orange	Standby mode
LED off	Off mode

OSD Lock Function

- ▶ To lock the OSD, press and hold the **MENU** button while the monitor is off and then press power button to turn the monitor on. To un-lock the OSD, press and hold the **MENU** button while the monitor is off and then press power button to turn the monitor on.

Changing the monitor settings using the OSD menu



- ▶ Press the **MENU** button to display the OSD menu.
- ▶ Press + or - to navigate through the menu items. Once the desired item is highlighted, press the **MENU** button to enter.
- ▶ Press + or - again to navigate through the sub-menu. Once the desired item is highlighted, press **MENU** button to activate it.
- ▶ Press + or - to adjust the setting.
- ▶ To exit and save, press the **EXIT** button. If you would like to adjust other settings, please repeat steps 2-4.

Adjusting the picture

Adjusting the luminance

	Call up the <i>Luminance</i> setting window
<i>Contrast</i>	Contrast from Digital-register
<i>Brightness</i>	Backlight Adjustment
<i>Eco</i>	
<i>Standard</i>	Standard Mode
<i>Text</i>	Text Mode
<i>Internet</i>	Internet Mode
<i>Game</i>	Game Mode
<i>Movie</i>	Movie Mode
<i>Sports</i>	Sports Mode
<i>DCR</i>	
<i>Off</i>	Disable dynamic contrast ratio
<i>On</i>	Enable dynamic contrast ratio

Adjusting the image setup

	Call up the <i>Image Setup</i> setting window
<i>Clock</i>	Adjust picture Clock to reduce Vertical-Line noise
<i>Phase</i>	Adjust Picture Phase to reduce Horizontal-Line noise
<i>H.Position</i>	Adjust the vertical position of the picture.
<i>V.Position</i>	Adjust the horizontal position of the picture.
<i>Image Ratio</i>	
<i>Wide/4:3</i>	Select Picture wide and 4:3

Adjusting the color temperature

	Call up the <i>Color Temperature</i> setting window
<i>Warm</i>	Recall Warm Color Temperature from EEPROM.
<i>Normal</i>	Recall Normal Color Temperature from EEPROM
<i>Cool</i>	Recall Cool Color Temperature from EEPROM.
<i>sRGB</i>	Recall SRGB Color Temperature from EEPROM.
<i>User</i>	
<i>Red</i>	Red Gain from Digital-register
<i>Green</i>	Green Gain Digital-register
<i>Blue</i>	Blue Gain from Digital-register

Adjusting the OSD Setup

	Call up the <i>OSD Setup</i> setting window
<i>H.Position</i>	Adjust the horizontal position of OSD
<i>V.Position</i>	Adjust the vertical position of OSD
<i>Timeout</i>	Adjust the OSD Timeout
<i>Language</i>	Select the OSD language

Adjusting the Extras

	Call up the <i>Extra</i> setting window
<i>Input Select</i>	
<i>VGA/DVI/HDMI</i>	Select input source VGA, DVI or HDMI
<i>DDC/CI</i>	Turn ON/OFF DDC/CI Support
<i>Reset</i>	
<i>yes or no</i>	Reset the menu to default
<i>Information</i>	Show the information of the main image source

Technical support (FAQ)

Problem & Question	Possible Solution
Power LED is not on	<ul style="list-style-type: none"> ▶ AC power cable should be connected to power supply and power supply should be connected to monitor.
No Plug&Play	<ul style="list-style-type: none"> ▶ Check if the PC system is Plug&Play compatible. ▶ Check if the Video Card is Plug&Play compatible. ▶ Check if the D-15 plug pin of Video Cable is bent.
Picture is fuzzy	<ul style="list-style-type: none"> ▶ Adjust the Contrast and Brightness Controls.
Picture bounces or a wave pattern is present in the picture	<ul style="list-style-type: none"> ▶ Move electrical devices that may cause electrical interference.
The power LED is ON (blue) but there's no video or no picture.	<ul style="list-style-type: none"> ▶ Computer Power Switch should be in the ON position. ▶ Computer Video Card should be snugly seated in its slot. ▶ Make sure monitor's video cable is properly connected to the computer. ▶ Inspect monitor's video cable and make sure none of the pins are bent. ▶ Make sure computer is operational by hitting the CAPS LOCK key on the keyboard while observing the CAPS LOCK LED. The LED should either turn ON or OFF after hitting the CAPS LOCK key.
Missing one of the primary colors (RED, GREEN, or BLUE)	<ul style="list-style-type: none"> ▶ Inspect the monitor's video cable and make sure that none of the pins are bent.
Screen image is not centered or sized properly.	<ul style="list-style-type: none"> ▶ Adjust pixel frequency (CLOCK) and PHASE or press hot-key (AUTO).
Picture has color defects (white does not look white)	<ul style="list-style-type: none"> ▶ Adjust RGB color or select color temperature.
Poor brightness or contrast	<ul style="list-style-type: none"> ▶ When the brightness of the screen lowers after being used for a certain period and the function of the display is affected, send it to our authorized service center for repair
Horizontal or vertical disturbances on the screen	<ul style="list-style-type: none"> ▶ Use win 95/98/2000/ME/XP shut-down mode Adjust CLOCK and PHASE or perform hot-key (AUTO-key).
Message: No Signal	<ul style="list-style-type: none"> ▶ Check that the signal-cable is properly connected. If the connector is loose, tighten the connector's screws. ▶ Check the signal-cable's connection pins for damage
Message: Input no support	<p>Your computer has been set to unsuitable display mode.</p> <ul style="list-style-type: none"> ▶ Set the computer to display mode given in the following table in chapter "Preset operating modes", page 17.

Windows shut-down mode

Adjustment	Status
CLOCK (pixel frequency)	Controls the number of pixels scanned by one horizontal sweep. If the frequency is not correct, the screen shows vertical stripes and the picture has not correct width.
PHASE	Adjusts the phase of the pixel clock signal. With a wrong phase adjustment the picture has horizontal disturbances in light picture.
PHASE and CLOCK	For PHASE and CLOCK adjustment use "dot-pattern" or Win 95/98/2000/ME/XP shut-down mode pattern.

Technical data

Product Name	E22 TOUCH
Model Name	WP2-215META
Dimensions and weight (LCD Display)	
Visible diagonals:	54.7 cm (21.5") 16:9
Screen size:	476.6 mm x 268.1 mm
Dimensions (W x H x D) incl. monitor base:	510 mm x 344 mm x 96 mm
Dimensions box (W x H x D):	574 mm x 423 mm x 140 mm
Weight:	Net 4.2 kg
Pixel size:	0.2483 x 0.4825
Maximal resolution:	1920 x 1080 pixels
Electrical Data	
Video:	<ul style="list-style-type: none"> • analogue, positive, 0.7 VSS, 75 Ω • digital DVI-D with HDCP • digital HDMI with HDCP
Synchronisation:	Separate H/V-Sync.
Horizontal frequency:	31 kHz 83 kHz (VGA) 31 kHz 83 kHz (DVI)
Refresh rate:	55 Hz 76 Hz (VGA) 55 Hz 76 Hz (DVI)
Maximum pixel rate:	210 MHz (VGA), 170 MHz (DVI), 170 MHz (HDMI)
Power supply:	100 V - 240 V, 50/60 Hz
Total power consumption:	<ul style="list-style-type: none"> • typ. 25 W (Normal mode) • 0,5 W (Stand-By mode) • ≤ 0.5W (Off mode)
Audio:	2 x 2 W
Environmental conditions	
Environment class 3K2, DIN IEC 721	
Operating range:	5 °C 35 °C
Humidity:	15 % 85 %
Limit range:	5 °C 35 °C
Humidity:	15 % 85 %
Condensation must be avoided.	

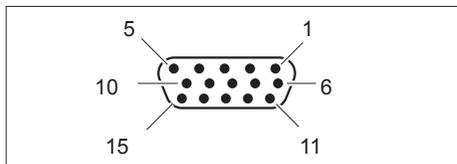
External Controls	
Switch	<ul style="list-style-type: none"> • Auto Adjust Button / EXIT / SOURCE • + / Volume • - / ECO • MENU/ENTER • Power button
Functions	<ul style="list-style-type: none"> • Luminance • Image Setup • Color Temp • OSD Setup • Extra
Touch screen specifications	
Touch Technology	Projective capacitive touch
Touch Method	Finger or Cap. Stylus
Stylus Diameter	>6.5mm
Resolution	25ppi (Min)
Accuracy	Within 1mm each target & 10% Jitter limit on moving
OS Compatibility	
Microsoft Windows 7	Multi touch + Gesture (10 points + win7 gesture)
Microsoft Windows 8	Multi touch + Gesture (10 points + win8 gesture)

Preset operating modes

The picture position and size have been set to optimum values at the factory for the operating modes listed below:

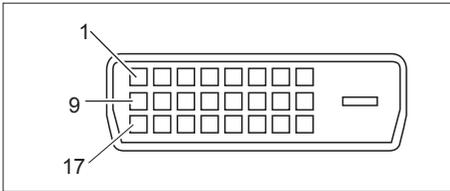
Resolution	Refresh rate
640 x 480	60/75 Hz
720 x 400	70 Hz
800 x 600	60/75 Hz
1024 x 768	60/75 Hz
1280 x 720	60 Hz
1280 x 1024	60/75 Hz
1440 x 900	60 Hz
1920 x 1080	60 Hz

SUB D port



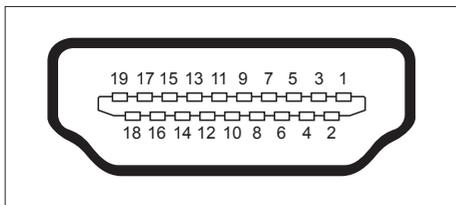
Pin	Meaning
1	Video input red
2	Video input green
3	Video input blue
4	Ground
5	Ground
6	Video ground red
7	Video ground green
8	Video ground blue
9	+5V (DDC)
10	Sync. ground
11	Ground
12	DDC Data
13	H. sync
14	V. sync
15	DDC Clock

DVI-D port



Pin	Meaning
1	TMDS Data 2-
2	TMDS Data 2+
3	TMDS Data 2/4 Shield
4	not connected
5	not connected
6	DDC Clock
7	DDC Data
8	Analog Vertical Sync
9	TMDS Data 1-
10	TMDS Data 1+
11	TMDS Data 1/3 Shield
12	not connected
13	not connected
14	+5V Power
15	Earth
16	Hot Plug Detect
17	TMDS Data 0-
18	TMDS Data 0+
19	TMDS Data 0/5 Shield
20	not connected
21	not connected
22	TMDS Clock Shield
23	TMDS Clock +
24	TMDS Clock -

HDMI port



Pin	Meaning
1	TMDS Data 2+
2	TMDS Data 2 Shield
3	TMDS Data 2-
4	TMDS Data 1+
5	TMDS Data 1 Shield
6	TMDS Data 1-
7	TMDS Data 0+
8	TMDS Data 0 Shield
9	TMDS Data 0-
10	TMDS Clock++
11	TMDS Clock Shield
12	TMDS Clock-
13	CEC
14	not connected
15	SCL
16	SDA
17	DDC/CEC Ground
18	+5V Power
19	Hot Plug Detect