

MEDION®

Operating instructions



62,2 cm (24,5") LED Backlight Monitor
MEDION® ERAZER® X52424 (MD 22240)

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1. About these operating instructions



Read these operating instructions carefully and comply with the information provided in them. This will ensure that your device works reliably and has a long service life. Always keep these operating instructions close to the device. Keep these operating instructions in a safe place so they can be passed on to the new owner if you decide to sell the device.

1.1. Key to symbols

If a block of text is marked with one of the warning symbols listed below, the hazard described in that text must be avoided to prevent the potential consequences described there from occurring.



DANGER!

Warning: risk of fatal injury!



WARNING!

Warning: risk of possible fatal injury and/or serious irreversible injuries!



Additional information on using the device!



WARNING!

Warning: risk of electric shock!



WARNING!

Warning: danger due to loud volume!

- Bullet point/information on steps during operation
- ▶ Instruction to be carried out



Declaration of Conformity (see "Declaration of Conformity" section): Products that feature this symbol meet the requirements of the EC directives.

2. Proper use

The TFT monitor is used to play back video and audio signals from external devices, such as computers, that have connections and image resolutions matching the technical specifications of the TFT monitor given here. Any other use is considered to be improper.

- The device is only intended for private use and not for industrial/commercial use.

Note that no liability will be accepted if the device is not used for its intended purpose:

- Do not modify the device without our express agreement and do not use any accessories that have not been supplied or approved by us.
- Only use replacement parts or accessories that we have supplied or approved.
- Comply with all the information in these operating instructions, especially the safety information. Any other use is considered improper and can cause personal injury or property damage.
- Do not use the device in potentially explosive atmospheres. This includes petrol stations, fuel storage areas and areas where solvents are processed. This device must also not be used in areas with particle-laden air (for example flour or wood dust).
- Do not use the device outdoors.
- Do not expose the device to extreme conditions. Avoid:
 - High humidity and wet conditions
 - Extremely high and low temperatures
 - Direct sunlight
 - Naked flames

3. Declaration of Conformity

Medion AG hereby declares that this device complies with the fundamental requirements and the other relevant provisions of the following:

- EMC Directive 2014/30/EU
- Low Voltage Directive 2014/35/EU
- Ecodesign Directive 2009/125/EC

However, this device is not equipped with full functionality to minimise consumption according to the Ecodesign Directive. In this product category, this function is usually defined or dictated by the connected end device (personal computer).

- RoHS Directive 2011/65/EU.



3.1. Trademark information

The HDMI logo and High Definition Multimedia Interface are registered trademarks of HDMI Licensing LLC.

Other trademarks are the property of their respective owners.

4. Safety information

4.1. Operating safety

- This device may be used by children over the age of 8 and by persons with limited physical, sensory or mental abilities or by those without experience and knowledge, if they are supervised or have been instructed in the safe use of the device and have understood the dangers that result from it.
- Children must not be allowed to play with the device. Cleaning and user maintenance must not be carried out by children unless they are supervised.



DANGER!

Risk of choking and suffocation!

Packaging film can be swallowed or used improperly, creating a risk of choking and suffocation.

- ▶ Keep packaging material such as plastic film or plastic bags away from children.



DANGER!

Risk of injury!

If subjected to excessive pressure, there is a risk of the display breaking!

- ▶ Use protective gloves when wrapping up cracked parts and send them to your Service Centre for proper disposal.
 - ▶ Wash your hands with soap afterwards, as the risk of chemicals escaping cannot be excluded.
- Do not touch the display screen with fingers or sharp objects to avoid damage.

4.2. Installation location

- Keep your monitor and all connected devices away from moisture and avoid dust, heat, direct sunlight and naked flames (such as candles, for instance). Non-compliance with these instructions can lead to faults or damage to the monitor.
- This device is not suitable for use at workstations in line with the regulation for computer workstations S 2.
- Do not use the device outdoors as it could be damaged by weather such as rain, snow etc.
- Avoid exposing the device to water droplets or spray and do not place any liquid-filled containers (vases or similar) on or next to the device or the power pack. Liquids penetrating the device may impair the electrical safety of the product.
- The slots and openings on the monitor are for ventilation purposes. Do not cover these openings (risk of overheating, fire hazard)!
- Position the cables so that no one can tread on them or trip over them.
- Make sure that there is enough clearance between the device and any surrounding furniture or walls. Ensure a minimum clearance of 10 cm around the device for sufficient ventilation.
- Place and operate all the components on a stable, level and vibration-free surface in order to prevent the monitor from falling.

4.3. Repairs

- Contact customer services if:
 - the mains cable is burnt or damaged
 - liquid has penetrated the monitor
 - the monitor is not operating correctly
 - the monitor has fallen or the housing is damaged.
- Repairs to your monitor should only be carried out by qualified specialists.
- If a repair must be carried out, please contact only our authorised service partners.

4.4. Environmental conditions

- Only use the device in accordance with the environmental conditions specified in the technical data.



DANGER!

Risk of electric shock!

Major changes in temperature or fluctuations in humidity can cause moisture to build up within the monitor due to condensation – this can cause an electrical short circuit.

- ▶ After transporting the monitor, wait until it has reached ambient temperature before switching it on.

4.5. Power supply



DANGER!

Risk of electric shock!

Even when the device is switched off, some components are live.

- ▶ In order to disconnect the power to your monitor or to completely isolate the device from voltage sources remove the mains plug from the socket.
- Operate the monitor only from a 100 to 240 V~ 50 to 60 Hz earthed power socket that is close by and easy to access.
- To disconnect the power supply from your monitor, pull the plug from the socket.



DANGER!

Risk of electric shock!

The monitor contains live parts. They pose a risk of electric shock or fire if an unintentional short circuit occurs.

- ▶ Never open the monitor housing and do not push objects inside the monitor through the slots and openings.
- Do not place any objects on the cables as they may be damaged.
- Keep the device at a distance of at least one metre from sources of high-frequency or magnetic interference (televi- sions, speakers, mobile telephones, etc.) to avoid malfunc- tions and data loss.

5. Package contents

Please check your purchase to ensure that all items are included. If anything is missing, please contact us within 14 days of purchase. The following items are supplied with your monitor:

- Monitor
- HDMI cable
- Power cord EU
- Power cord CH
- Monitor stand
- Documentation



DANGER!

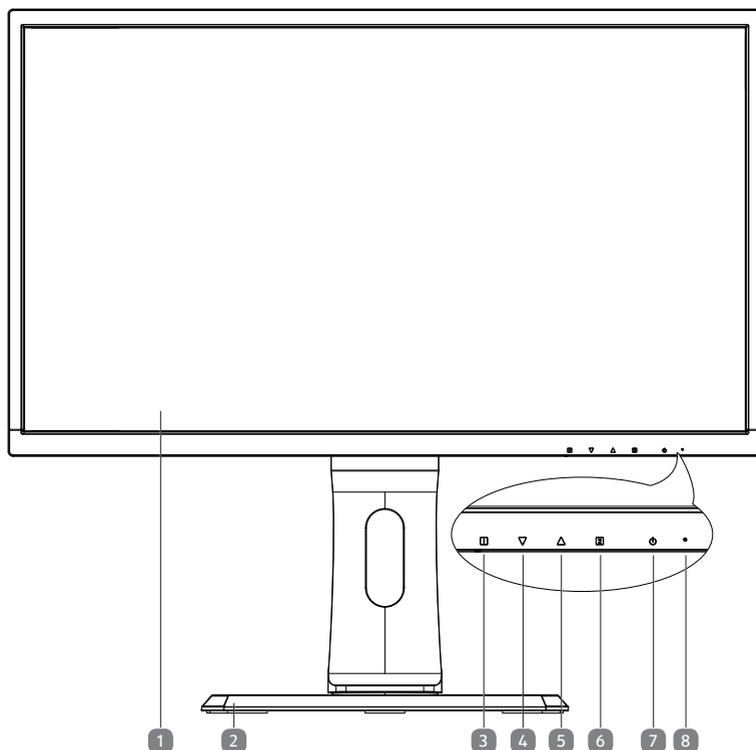
Risk of choking and suffocation!

Packaging film can be swallowed or used improperly, creating a risk of choking and suffocation.

- ▶ Keep packaging material such as plastic film or plastic bags away from children.

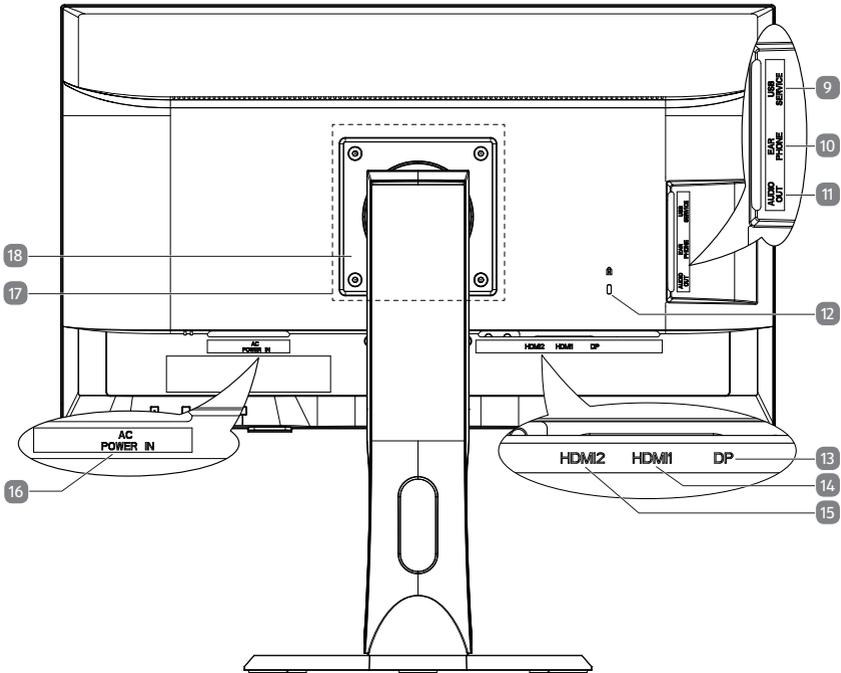
6. Device overview

6.1. Front



- 1) Screen
- 2) Monitor stand
- 3)  Open/close the menu (only if **AUTOMATIC SHUTDOWN** in **MENU SETTING** is disabled)
 - Press and hold +: Lock/unlock the on/standby button
 - Press and hold +: Lock/unlock the menu button
 - To activate/deactivate the lock, press and hold the buttons until the frame displayed has moved completely from left to right. A message appears on the display screen.
- 4)  In the menu: navigate down
In idle state: open the **BLUE LIGHT REDUCER** menu
- 5)  In the menu: navigate up
In idle state: open the **CONTRAST/BRIGHTNESS** menu
- 6)  In the menu: confirm the selection
In idle state: select the image source
- 7)  Switch monitor on / switch to standby mode
- 8) Operating LED indicates the operating state

6.2. Rear



- 9) **USB SERVICE** – Software update port (service only)
- 10) **EARPHONE** – Headset connection
- 11) **AUDIO OUT** – Audio connection (3.5 mm stereo jack)
- 12) Opening for Kensington® lock
- 13) **DP** – DisplayPort port
- 14) **HDMI 1** – HDMI1 port
- 15) **HDMI 2** – HDMI2 port
- 16) **AC POWER IN** – Connection for power supply
- 17) Fixing holes for wall mount
- 18) Mounting plate for stand

7. Getting started

7.1. Before connecting the monitor

It is possible that your existing monitor supports a physical resolution that is not supported by your new monitor. In this case, the image on your new monitor may not appear correctly once it has been connected.

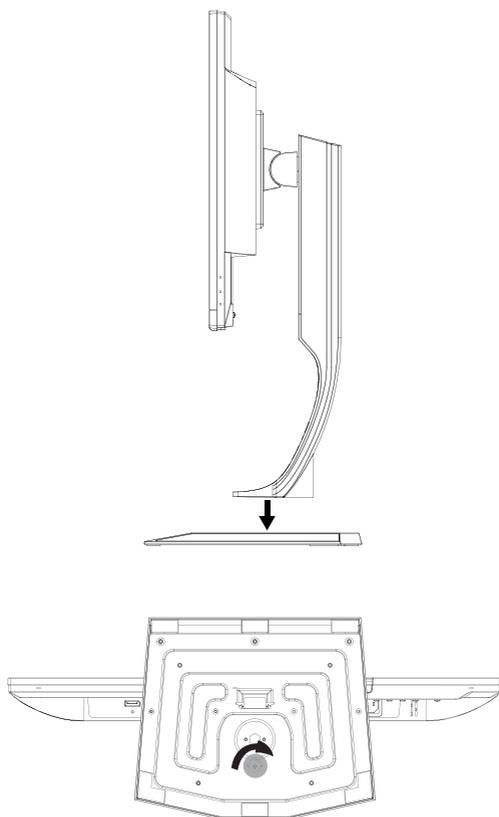
- ▶ To prevent this, select a physical resolution that is supported by both monitors and, if necessary, set this physical resolution in your operating system before connecting the new monitor.

A table listing the physical resolutions supported by this monitor can be found in section "7.7. Setting the display resolution" on page 21.

7.2. Mounting the stand

Attach the monitor stand as shown in the illustration. Carry out this step before connecting the monitor.

- ▶ Place the device on the stand. Take care to ensure that the connector fits in the device recesses and that the stand clicks into place.
- ▶ Use the screws supplied to screw the stand to the device.

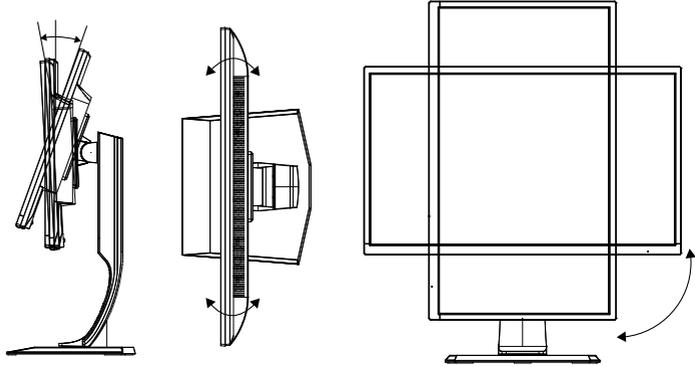


7.3. Setup



Avoid glare, reflections and extreme dark-light contrasts to protect your eyes.

The monitor should never be placed close to windows, because this is where the work-space is illuminated the brightest by daylight. This brightness makes it more difficult for the eyes to adjust to the darker screen.



Always position the monitor with the line of sight parallel to the window front.

The parallel line of sight must also be maintained with regards to artificial lighting equipment. In other words, the same criteria and reasoning apply when the work-space is illuminated with artificial light.

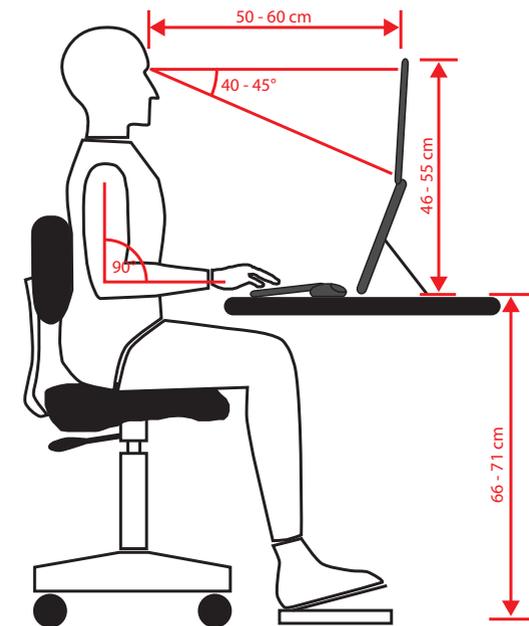
If it is not possible to position the monitor as described, the following measures may be helpful:

- turn, lower or angle the display screen
- slats or vertical net curtains on the windows
- partition walls or changes to the lighting equipment.



Take regular breaks when working at your monitor, to avoid tension and fatigue.

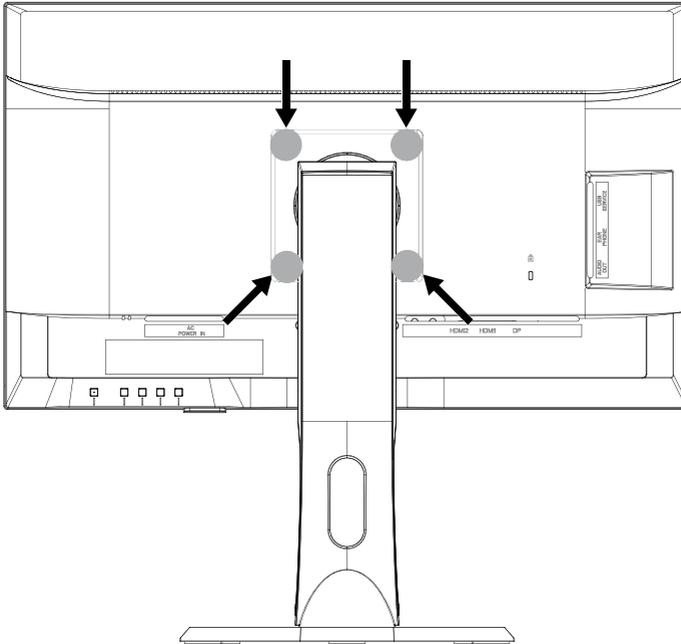
Sitting for prolonged periods without changing position can be uncomfortable. Correct posture is very important for minimising the risks of physical injuries or damage.



- **General** – change position frequently (around every 20 to 30 minutes) and take regular breaks to avoid fatigue.
- **Back** – when sitting at your workstation, your back must be supported by your chair's backrest, which must be upright or angled slightly back.
- **Arms** – your arms and elbows should be comfortable and relaxed. Your elbows should be close to your body. Hold your forearms and hands roughly parallel to the floor.
- **Wrists** – when working with the keyboard, mouse or trackball, wrists should be elongated and bent at an angle of no more than 10°. Take care to ensure that your wrists do not rest directly on the edge of the table.
- **Legs** – your thighs should be horizontal or angled slightly downwards. The lower legs should form an angle of approx. 90° to the thighs. Your feet should rest flat on the floor. Use a footrest if you need one, but first ensure that your seat height has been adjusted correctly.
- **Head** – your head should be upright or bent slightly forward. Do not work with your head or upper body twisted.
During work, the top edge of the monitor should be at or slightly below eye level.
The size of the distance between the monitor and the viewer depends on individual requirements. Distances between 50 and 60 cm are commonly used.

7.4. Mounting on the wall

You can mount the device on the wall with the aid of a wall mount.



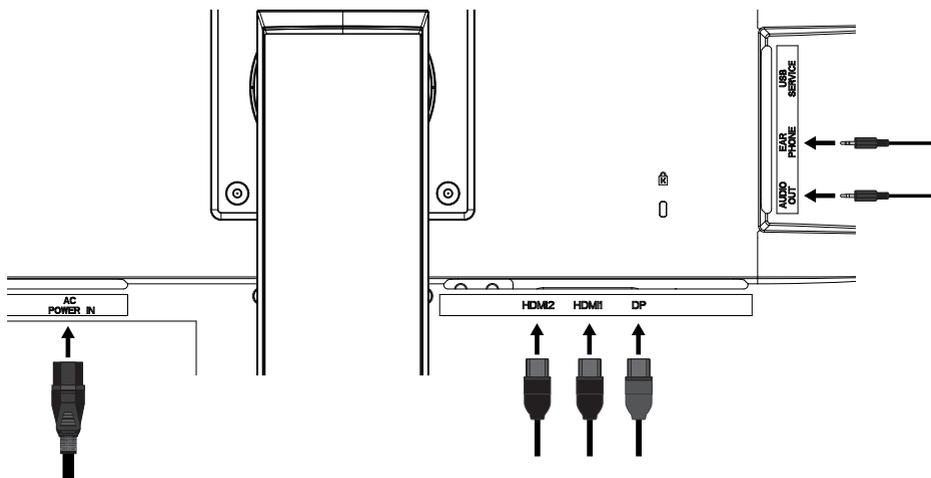
To enable wall mounting, first remove the device stand.

- ▶ To do so, remove the screws on the stand at the points indicated.
- ▶ Remove the stand.
- ▶ Install the wall mount on the intended holes on the device housing. The hole spacing is 100 x 100 mm according to the VESA standard.



When mounting the device, make sure that the screws are no larger than M4x16

7.5. Connection



To avoid damage and malfunctions, only connect the connecting cable when the monitor and computer are switched off.

7.5.1. Connecting the signal cable

- ▶ Plug the signal cable into one of the connections on the monitor:
 - **HDMI1**
 - **HDMI2**
 - **DP**
- ▶ Plug the other end into the appropriate connections on the computer.
Only one type of connection can be used at a time.

7.5.2. Connecting the audio cable

- ▶ Plug the audio cable into the **AUDIO OUT** connection on the monitor and into the corresponding connection on an audio system/amplifier

7.5.3. Connecting the headphones

- ▶ Plug the cable with a 3.5 mm jack plug into the stereo jack connection **EAR-PHONE**.



WARNING!

Risk of hearing damage!

Using headphones/earphones to listen to a device at high volumes for an extended period can damage your hearing.

- ▶ Before pressing play, set the volume to the lowest setting.
- ▶ Start playback and increase the volume to a comfortable level.

7.5.4. Connecting the power supply

- ▶ Connect the mains cable to the **AC POWER IN** connection on the device.
- ▶ Plug the other end into an easily accessible mains socket. The mains socket must be close to the monitor and easily accessible (use the same electric circuit as for the computer).

7.6. Switching on/standby

- ▶ Press the  button to switch on the device.
- ▶ Press the button again to switch the device into standby mode.



This monitor features sensor buttons, that do not contain a mechanical switch. The button function is triggered by briefly pressing the tactile dots beneath the button symbol.

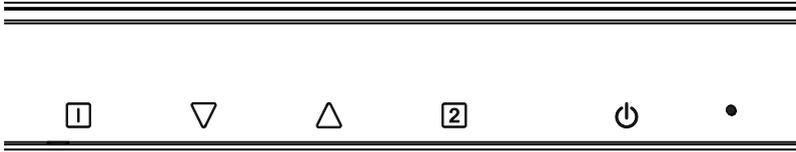
7.7. Setting the display resolution

The monitor supports the physical resolutions listed in the table. The aspect ratio of the display screen is 16:9. You will get an image that is free from distortion by selecting the 1,920 x 1,080 pixels resolution. This is a native 16:9 aspect ratio. Image distortions or black bars at the end of the picture can occur with all other resolutions.

- Set the physical resolution on your computer according to the instructions in your operating system.

Physical resolution (pixels)	Vertical frequency (Hz)	Physical resolution (pixels)	Vertical frequency (Hz)
640 x 480	60	1440 x 900	70
	66,7		72
	72		75
	75	1280 x 720	56
720 x 400	70		60
848 x 480	60		70
832 x 624	75		72
800 x 600	56		75
	60	1280 x 1024	60
	70		75
	72	1600 x 900	60
	75	1920 x 1080	60
1024 x 768	56	1920 x 1080	120
	60	1920 x 1080	240
	70		
	72		
	75		
1440 x 900	56		
	60		

8. Menu



You can use the on-screen display menu to make various settings.

- ▶ Press the **1** button to activate the OSD.
- ▶ Use the **▽/△** buttons to select options from the menus.
- ▶ Confirm your selection with the **2** button.
- ▶ Press the **1** button to exit the OSD.



The menu automatically disappears if you do not press any buttons on the monitor for a preset period of time.

The following explains the main functions or setting options:

CONTRAST / BRIGHTNESS	CONTRAST	Setting the display contrast
	BRIGHTNESS	Adjusting the brightness
	DCR	Switch dynamic contrast on or off
	ECO	Switch ECO mode on or off. Contrast and brightness adjustment as well as DCR are disabled in ECO mode.
	OD	Switch overdrive on or off. If the function is switched on, the reaction time is reduced.
INPUT SOURCE	Select the input source	
AUDIO ADJUST- MENT	VOLUME	Set the volume of the integrated speaker
	MUTE	Switch mute on or off

COLOUR SETTING	COOL	Cool colour reproduction of the picture
	NORMAL	Compensated colour reproduction of the picture
	WARM	Warm colour reproduction of the picture
	USER COLOUR	Set colours individually
	PICTURE MODE	Select a preset colour profile
	BLUE LIGHT REDUCER	Reduces the blue value of the light and renders it more comfortable and warmer.
INFORMATION	Display information regarding the input signal	
MANUAL IMAGE ADJUSTMENT	FREESYNC-DP	Automatic adjustment of the refresh rate (only for AMD graphics cards)
	FREESYNC-HDMI	
MENU SETTING	LANGUAGE SELECT	Select the menu language
	OSD POSITION	Position of the menu in the image
	OSD TIME OUT	Hides the menu once a preset period of time has elapsed
	OSD BACKGROUND	Show/hide menu background
	AUTOMATIC SHUTDOWN	If this function is activated, the device automatically switches to stand-by mode after 4 hours of inactivity (no operation of the device).
MEMORY RECALL	Reset the device to factory settings	

9. Energy-saving features

This monitor switches to different energy-saving modes, which are specified by the respective computer/operating system. This complies with the current requirements for reducing the energy consumption.

The monitor supports the following types of energy-saving modes:

Status	Power consumption (nominal value)	Colour of the operating light	Ready for operation (approx.)
ON	< 40 W (max.)	Blue	–
STANDBY	< 0.5 W	Orange	2 seconds
EXT. STANDBY ¹	< 0.5 W	–	–

Depending on the operating system, the monitor remains in energy-saving mode until you press a button on the keyboard or move the mouse. The monitor requires about 2 seconds to switch from standby mode to operating mode "On".

10. Troubleshooting

If problems occur with your monitor, make sure that the monitor has been properly installed. If the problems persist, then read this section for information about possible solutions.

10.1. No picture/picture interference

- The mains cable must be firmly seated in the socket and the power switch (if available) must be switched on.
- The computer must be switched on and the connecting cable must be firmly seated in the socket.
- The set values of the operating system must be suitable for the monitor. To avoid distortion, select a resolution of 16:9.
- If the screen saver is activated or the monitor is in standby mode, press any button on the keyboard or move the mouse.
- Move the devices responsible for the distortion (mobile phones, speakers) away from your monitor.

¹ The device is switched to the extended standby mode by pressing the  button

10.2. Incorrect colour reproduction; image is too bright/ dark

- Check the colour settings in the display menu or in the computer's operating system.

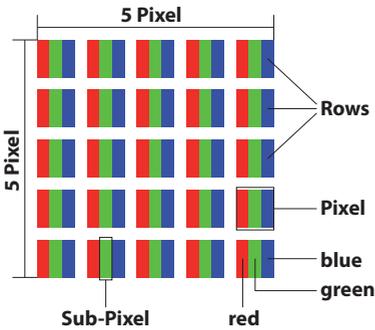
11. Cleaning

- Always unplug the device and disconnect all cables before cleaning.
- Do not use solvents, corrosive or gaseous cleaning agents.
- Clean the display screen with a soft, lint-free cloth.
- Take care to ensure that no water droplets remain on the display screen. Water can cause permanent discolouration.
- Store the packaging material in a safe place. Only use this box to transport the monitor.



The monitor housing does not contain any parts that require cleaning or maintenance.

11.1. Pixel faults in TFT monitors



Despite the state-of-the-art production methods, in rare cases there may be individual or multiple pixel drop-outs (dead pixels) due to the highly complex technology.

For active matrix TFTs with a resolution of **1920 x 1080 pixels**, which are each made up of three sub-pixels (red, green, blue), there are a total of **approx. 6.2 million** control elements in use. Occasionally pixels or individual sub-pixels can fail or become incorrectly controlled because of this very high number of transistors and the extremely complex manufacturing process used in this context.

Pixel defect class	Defect type 1 Continuously lit pixel	Defect type 2 Continuously black pixel	Defect type 3 Defective sub-pixel	
			lit	black
0	0	0	0	0
I	1	1	2 1 0	1 3 5
II	2	2	5 5-n*	0 2 x n* 10
III	5	15	50 50-n* 0	0 2 x n* 100
IV	50	150	500 500-n* 0	0 2 x n* 1000

$$n^*=1.5$$

The permitted number of defects for every type named above in each class of pixel defect refers to one million pixels and must be converted accordingly to match the physical resolution of the display.

Your device complies with the European ISO 9241-307 Class II standard (pixel defect class). Pixel defects up to the specified maximum number are not covered by the warranty.

12. Energy Star

This monitor is compliant with ENERGY STAR®. As an ENERGY STAR® partner, MEDION ensures that this device conforms with the regulations on the optimisation of power consumption.

13. Disposal



PACKAGING

Your device has been packaged to protect it from damage in transit. The packaging is made of materials that can be recycled in an environmentally friendly manner.



DEVICE

All old devices marked with the symbol illustrated must not be disposed of in normal household waste.

In accordance with Directive 2012/19/EU, the devices must be properly disposed of at the end of its service life.

This involves separating the materials in the devices for the purpose of recycling and minimising the environmental impact.

Take old devices to a collection point for electrical scrap or a recycling centre.

Contact your local waste disposal company or your local authority for more information on this subject.

14. Technical specifications

Device	
Model	X52424 (MD 22240)
Rated voltage	100-240 V ~ 50/60 Hz 0,8 A
Power consumption	Standby: < 0.5 W Operation: < 40 W (max.)
Audio output	2 x 2 W max. via speaker

Screen	
Screen size	62.2 cm (24.5"), TFT with LED backlight
Aspect ratio	16:9
Resolution	1920 x 1080 pixels
Brightness	400 cd/m ² (typical)
Contrast	1.000:1 (typical)
Dynamic contrast	5,000,000:1
Reaction time	5 ms (grey to grey, typical) 1 ms (overdrive, grey to grey, typical)

Connections	
Screen	1x DisplayPort
	2x HDMI with HDCP decoding
Sound	3.5 mm stereo output
	Headphone output (3.5 mm jack)

Environmental conditions	
Temperatures	In operation: 0 °C to +35 °C Not in operation: -20 °C to +60 °C
Humidity (non-condensing)	In operation: < 80 % Not in operation: < 90 %

Dimensions / weights	
Weight	With stand: approx. 6.2 kg Without stand: approx. 3.7 kg
Dimensions (W x H x D)	With stand: approx. 56.8 x 52.9 (41.5) x 23.1 cm Without stand: approx. 56.8 x 33.5 x 5.2 cm
Mounting on the wall ²	Vesa standard, hole spacing 100 x 100 mm

14.1. Product data sheet

In accordance with Regulation 1062/2010

Model	X52424 (MD 22240)
MSN	3002 6048
Energy efficiency class	A
Visible screen size (diagonal size, approx.) (cm/in)	62.2 cm / 24.5"
Average power consumption when switched on (in watts)	22
Annual power consumption (kWh/year)	32
Standby power consumption (in watts)	0,31
Power consumption when switched off (in watts)	---
Display resolution (in pixels)	1,920 x 1,080

² Wall mount not supplied. When mounting the device, make sure that the screws are no larger than M4x16.

15. GB - Service information

Please contact our Customer Service team if your device ever stops working the way you want or expect it to. There are several ways for you to contact us:

- In our Service Community, you can meet other users, as well as our staff, and you can exchange your experiences and pass on your knowledge there.
You will find our Service Community at <http://community.medion.com>.
- Alternatively, use our contact form at www.medion.com/contact.
- You can also contact our Service team via our hotline or by post.

Opening times	Hotline number UK
Mon – Fri: 08.00 – 20.00 Sat – Sun: 10.00 – 16.00	☎ 0333 3213106
	Hotline number Ireland
	☎ 1 800 992508
Service address	
MEDION Electronics Ltd. 120 Faraday Park, Faraday Road, Dorcan Swindon SN3 5JF, Wiltshire United Kingdom	



You can download this and many other sets of operating instructions from our service portal at www.medion.com/gb/service/start/.

You will also find drivers and other software for a wide range of devices there.

You can also scan the QR code on the side of the screen, to download the operating instructions onto your mobile device from the service portal.

16. Legal Notice

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Date: 23.01.2019

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