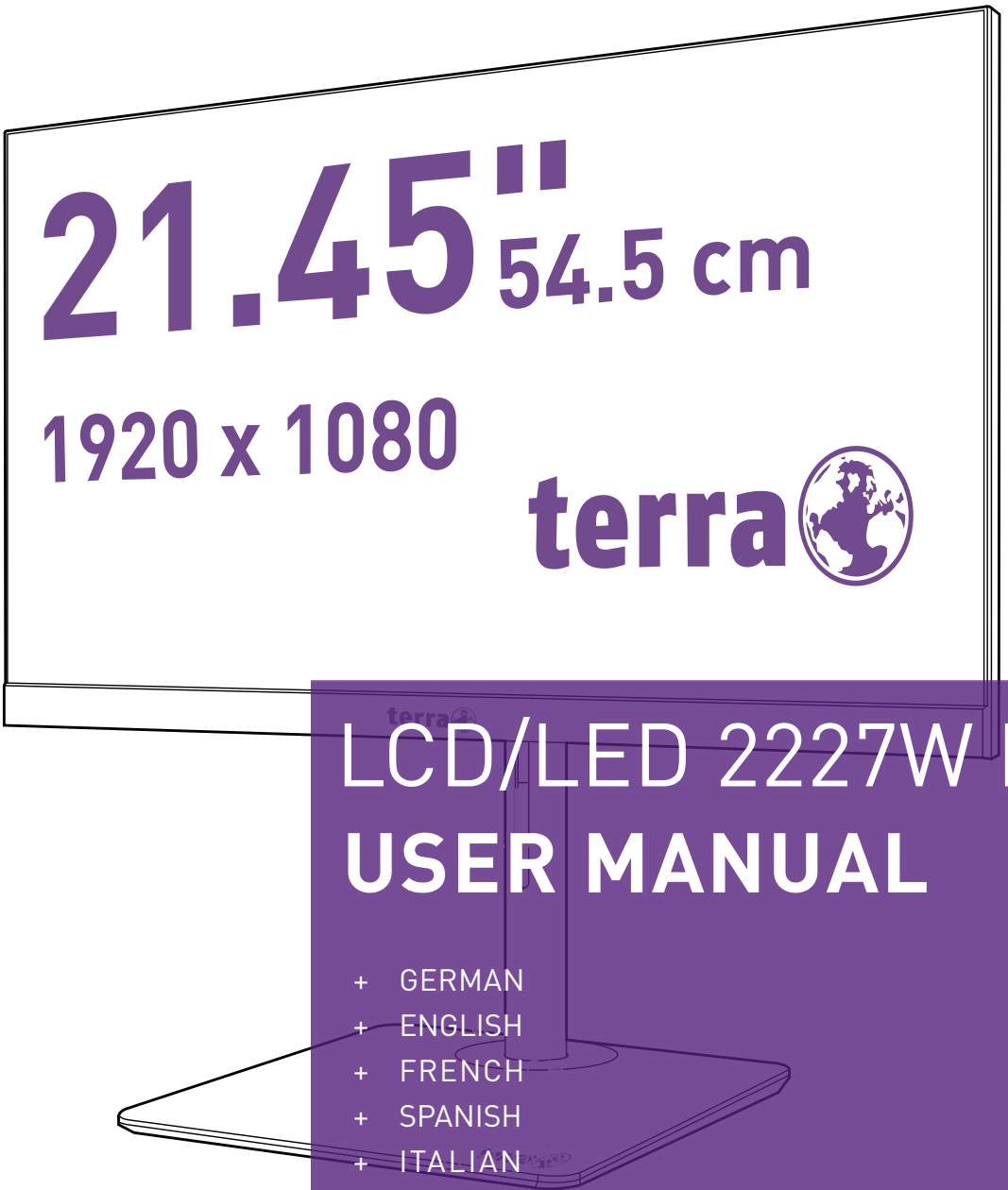
terra



LCD/LED 2227W HA
USER MANUAL

+ GERMAN
+ ENGLISH
+ FRENCH
+ SPANISH
+ ITALIAN
+ RUSSIAN
+ POLISH
+ CZECH

WORTMANN AG

Operation Instructions

Thank you for purchasing this monitor, a high-resolution multi-scan color monitor.
Please read this guide thoroughly before installation.

This monitor has been tested and found compliant with the CE mark. These limits are designed to provide proper protection against harmful interference to a residential installation. This monitor generates, uses, and can radiate radio frequency energy. Harmful interference to radio communication may be led as a result if it‘s not properly installed and used. However, there is no guarantee that interference will not occur in a particular installation. If this monitor does cause serious interference to radio or television reception, resetting the monitor may determine it. Moreover, users are encouraged to correct interference by doing one or more of the following:

- Reorient or relocate the receiving antenna.
- Move the monitor and the receiver further away from each other.
- Connect the monitor into an outlet on a circuit different from that to which the receiver is connected.
- Consult your local dealer or an qualified technician.

Warning:
To assure a continued compliance, a user must use a grounded power supply cord and the provided shielded video interface cable with bonded ferrite cores. Also, any unauthorized changes or modifications to this monitor would void the user‘s authority to operate this device.

Note: If necessary, shielded interface cables and AC power cord must be used to meet the emission level limits.

EU product database for energy label and product information sheet.
2227W HA：https://eprel.ec.europa.eu/qr/1275068

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Safety Precautions

This monitor is manufactured and tested on a ground principle that a user's safety comes first. However, improper use or installation may result danger to the monitor as well as to the user. Carefully go over the following WARNINGS before installation and keep this guide handy.

WARNINGS:

- This monitor should be operated only at the correct power sources indicated on the label on the rear end of the monitor. If you're unsure of the power supply in your residence, consult your local dealer or power company.
- Do not try to repair the monitor yourself as it contains no user-serviceable parts. The monitor should only be repaired by a qualified technician.
- Do not remove the monitor cabinet. There are high-voltage parts inside that may cause electric shock to human bodies, even when the power cord is disconnected.
- Ensure that the power cord is connected to a grounded power outlet before turning on the monitor.
- If smoke, abnormal noise or odor came out from your monitor, caution you should remove the power cord immediately and call your service center.
- Put your monitor only in a clean, dry environment. Unplug the monitor immediately if gets wet and consult your service technician.
- Avoid exposing your monitor directly to sunlight or other heat source.
- Always unplug the monitor before cleaning it. Clean the cabinet with a clean, dry cloth. Apply non-ammonia based cleaner onto the cloth, not directly onto the glass screen.
- Keep the monitor away from magnetic objects, motors, TV sets, and transformer.
- Do not place heavy objects on the cable or power cord.
- For PLUGGABLE EQUIPMENT, the Socket-outlet shall be installed near the equipment and shall be easily accessible.
- Please do not position the monitor on unsafe space, if it falls, it may be damaged and may hurt the user.
- Unplug the monitor if it is not going to be in use for an extended period of time.
- Pay attention to all cables connected to the monitor against stumble hazards.



According to WEEE regulation, this monitor can't be handled as normal trash in Europe when it is out of usage. Please refer to the recycle information from our website to handle it.

www.wortmann.de

First Setup

Congratulation for purchasing this monitor of high performance!
This monitor comes with the following accessories:

- AC/DC Power Adapter
- AC Power cord
- Warranty card
- HDMI cable
- Quick start guide
- Screwdriver

Quick Installation

1. **Connect Video cable (HDMI cable)**
   Make sure both monitor and computer are powered OFF.
   Connect the HDMI cable from HDMI output of computer to the HDMI input of the monitor.
   Or connect DisplayPort cable *Optional
   Connect the DisplayPort cable from DisplayPort output of computer to the DisplayPort input of the monitor.
2. **Connect Power cord**
   Connect the power cord to a properly grounded AC outlet, then to the monitor.
3. **Power-ON computer and monitor**
   Power-ON the computer, then Power-ON the monitor.
4. **Windows users: Setting the Timing Mode (Resolution and Refresh Rate)**
   Example: 1920 x 1080 @ 75 Hz
   Resolution Right-click on the Windows desktop > Display Settings > Advanced Display Settings. Set the resolution.
   Refresh Rate (vertical frequency) See your graphic card's user guide for instructions.

Example:

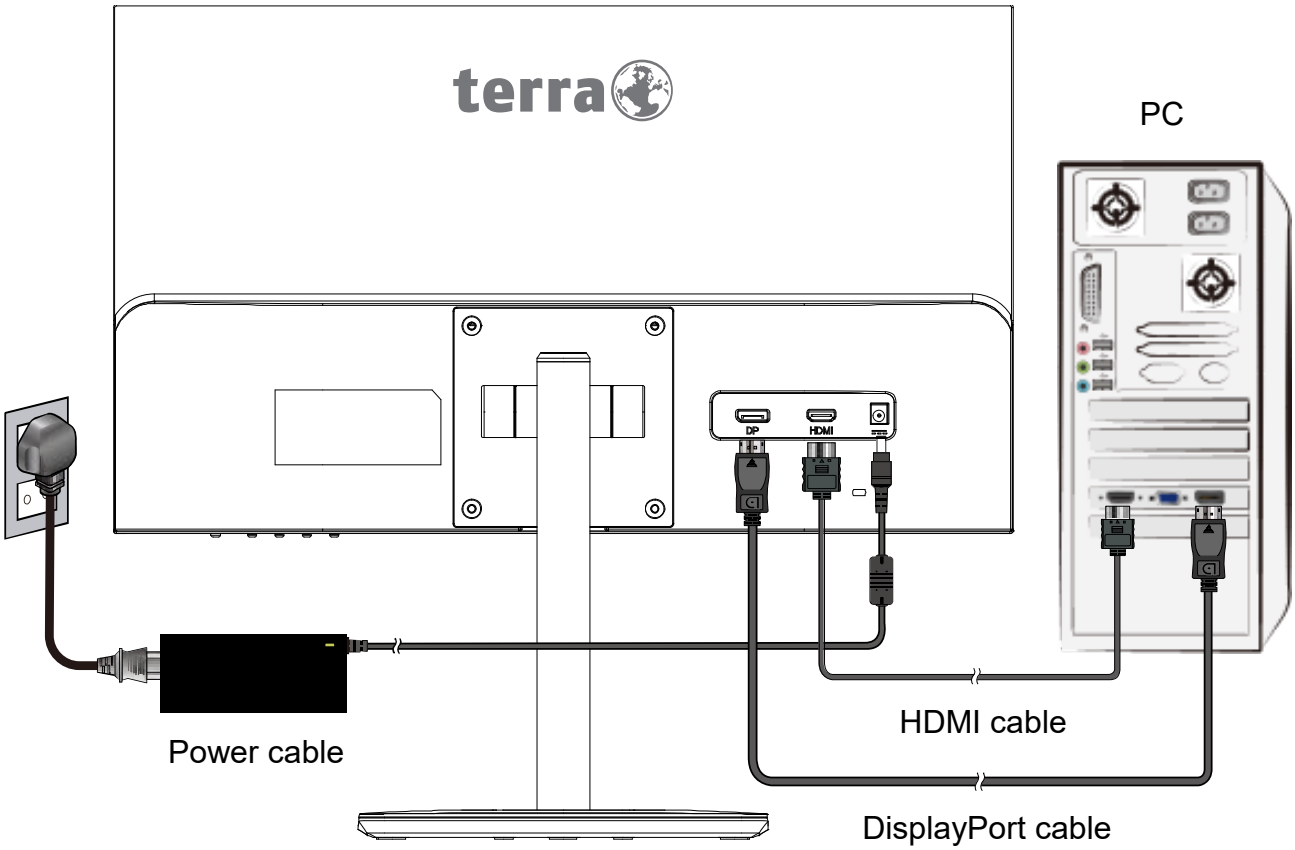
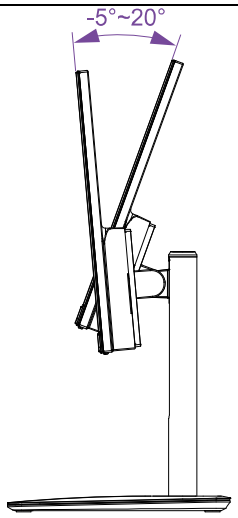


Illustration for turning the high adjustable stand base

(1) Tilt Angle

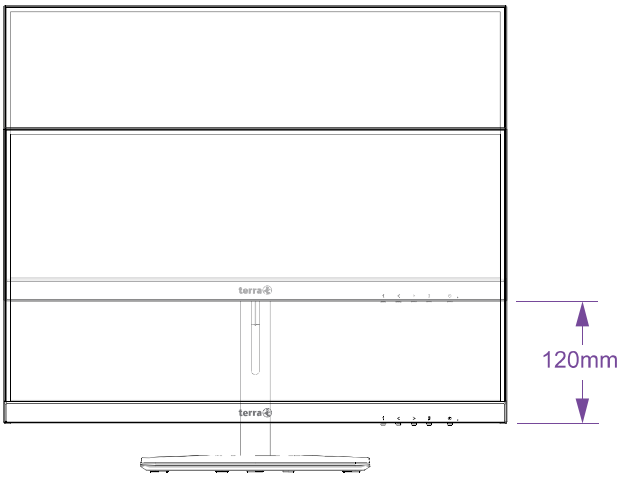
Tilt UP: 20°

Tilt DOWN: -5°



(2) Lift Range

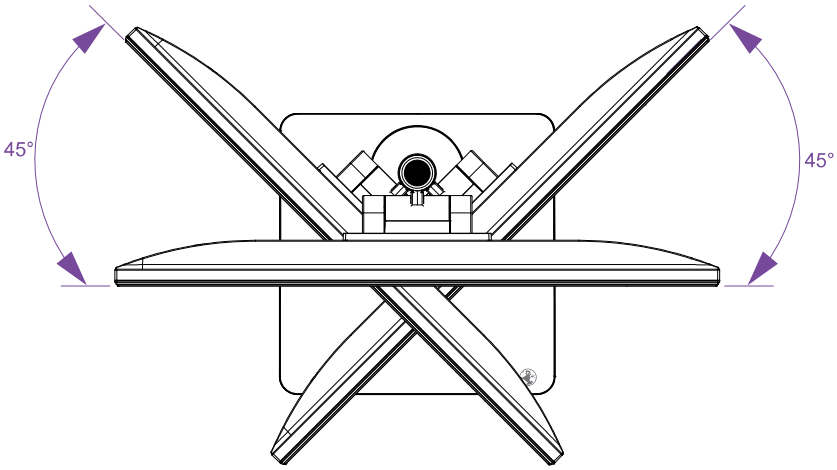
120mm



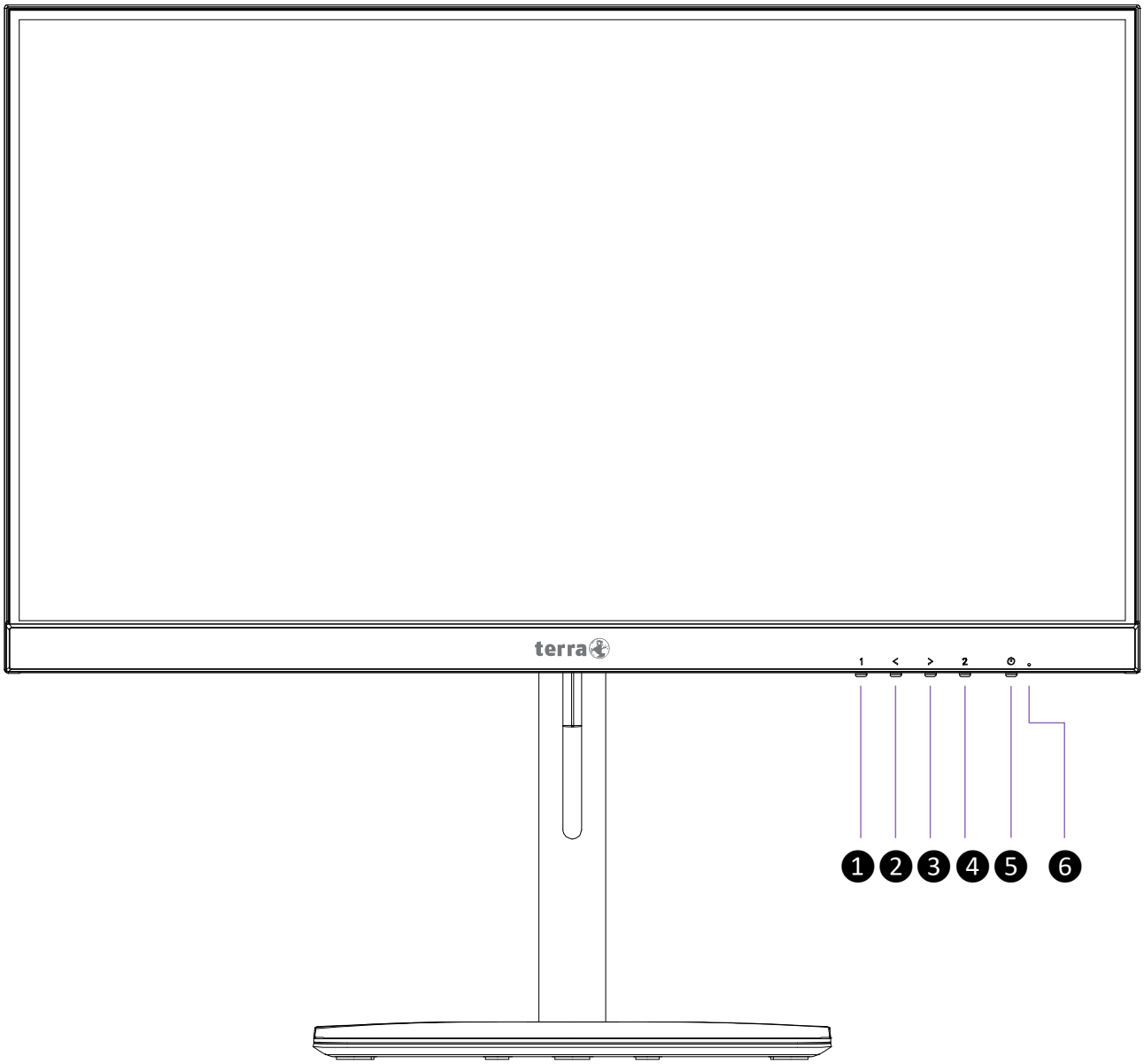
(3) Swivel Angle

Left: 45°

Right: 45°

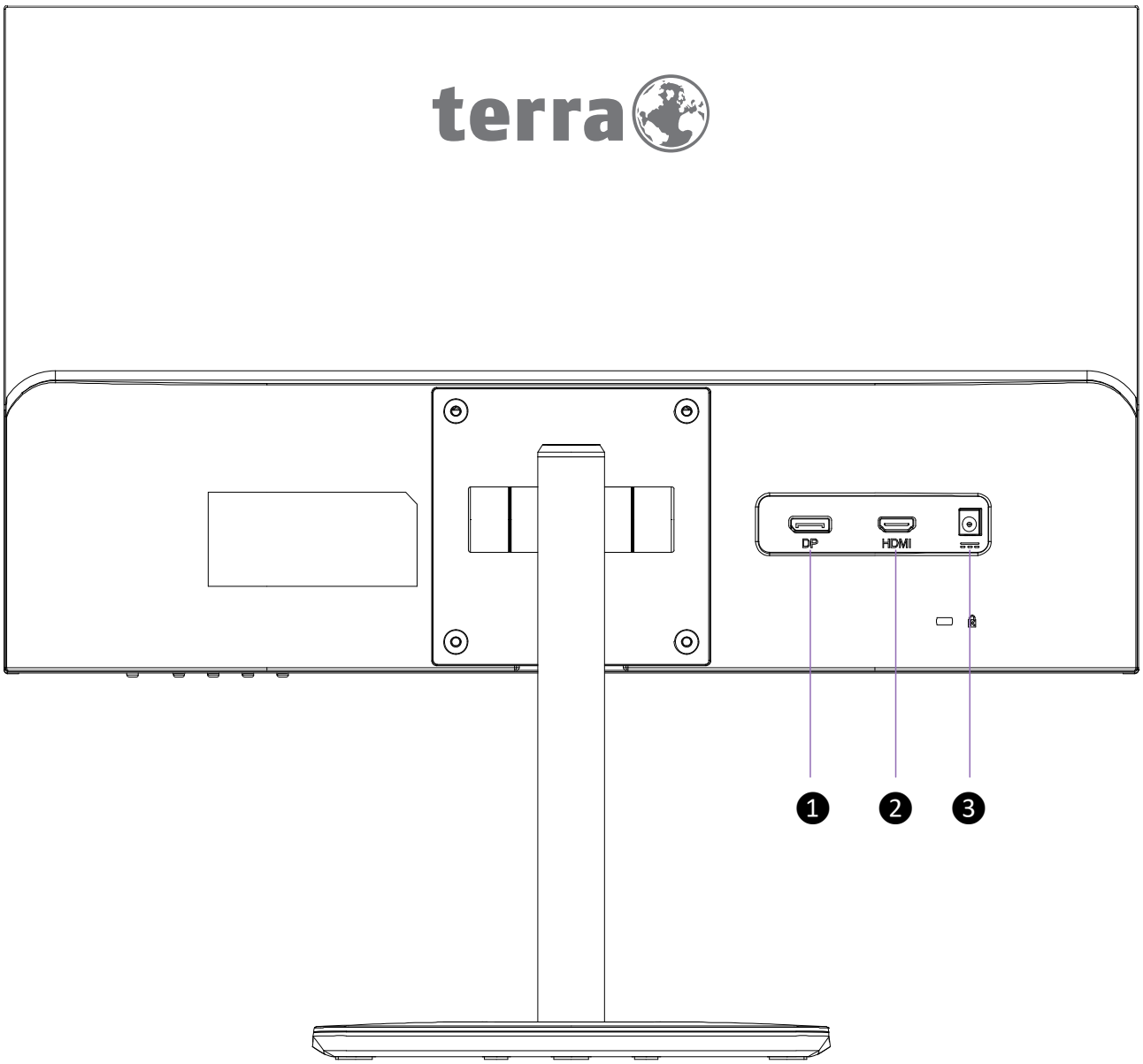


Front View of the Product



❶	OSD Menu On/Off
❷	Scroll Down/ Decrease
❸	Scroll Up/ Increase
❹	Confirm Select
❺	Power ON/OFF
❻	LED Indicator

Rear View of the Product



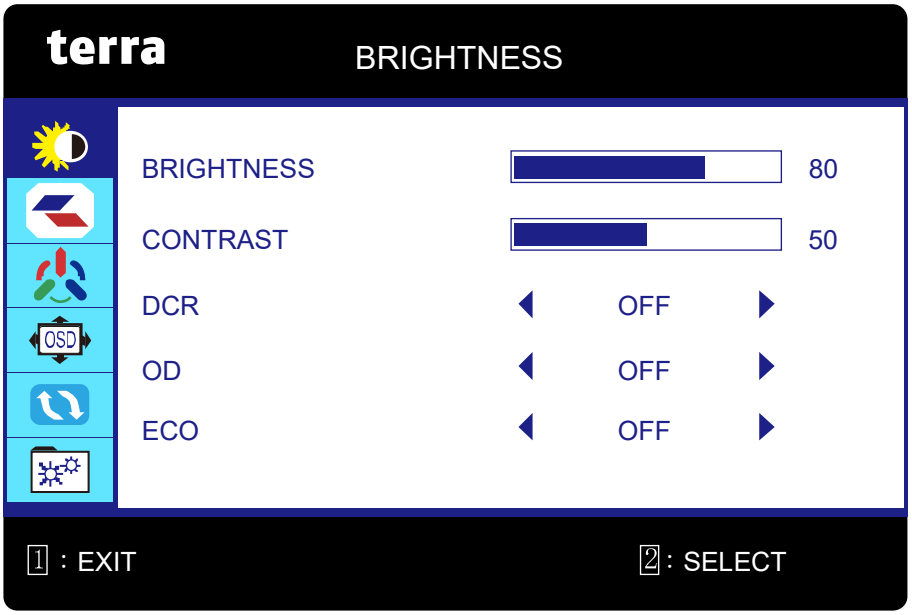
❶	DisplayPort input
❷	HDMI input
❸	Power input

Using On Screen Display (OSD) Functions

1	Display main menu/ Exit from OSD menu
	Press【 1 】key long-term: OSD LOCKED
	Then press【 1 】key long-term: OSD UNLOCKED
<	Select the desired item when in OSD menu
	When not in OSD menu, directly enters the BRIGHTNESS menu
>	Select the desired item when in OSD menu
	When not in OSD menu, directly enters the ANTI BLUE LIGHT menu
2	Manual adjust mode select for HDMI, DISPLAYPORT mode
	Confirm the Select
⏻	Power ON/OFF
	Press【 ⏻ 】key long-term: POWER LOCKED
	Then press【 ⏻ 】key long-term: POWER UNLOCKED

Note: Changing OSD settings may increase power consumption.

Short Cuts Function from the button(s)



BRIGHTNESS: To manually adjust the BRIGHTNESS, CONTRAST, DCR, OD and ECO of screen image.

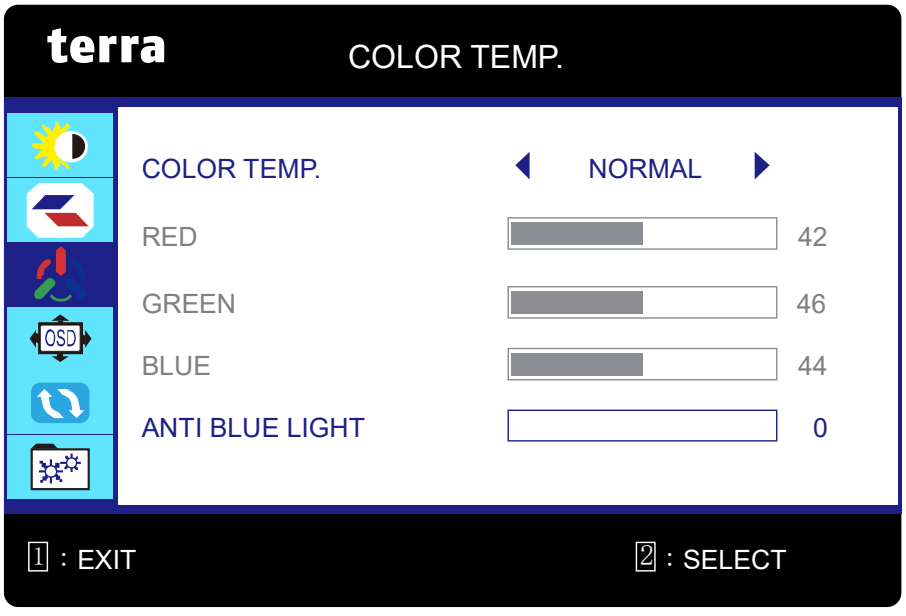
- **BRIGHTNESS:** To adjust the luminance of the video.
  <: decrease brightness, **>**: increase brightness.
- **CONTRAST:** To adjust the foreground white level of screen image.
  <: decrease contrast, **>**: increase contrast.
- **DCR (Dynamic Contrast Ratio):** To detect the distribution of the visual signals inputs, and create an optimized contrast. BRIGHTNESS, CONTRAST and ECO adjustment disabled when DCR is active. Press 2 key to adjust the DCR On or Off.

- **OD (Over Drive):** Allows the user to change the OD strength. Improve the quality of the motion pictures. Press 2 key to adjust the OD On or Off.
- **ECO:** Allows the user to turn the ECO On or Off. BRIGHTNESS, CONTRAST and DCR adjustment disabled when ECO is active. Press 2 key to adjust the ECO On or Off.



IMAGE: To manually adjust the ASPECT and PICTURE MODE.

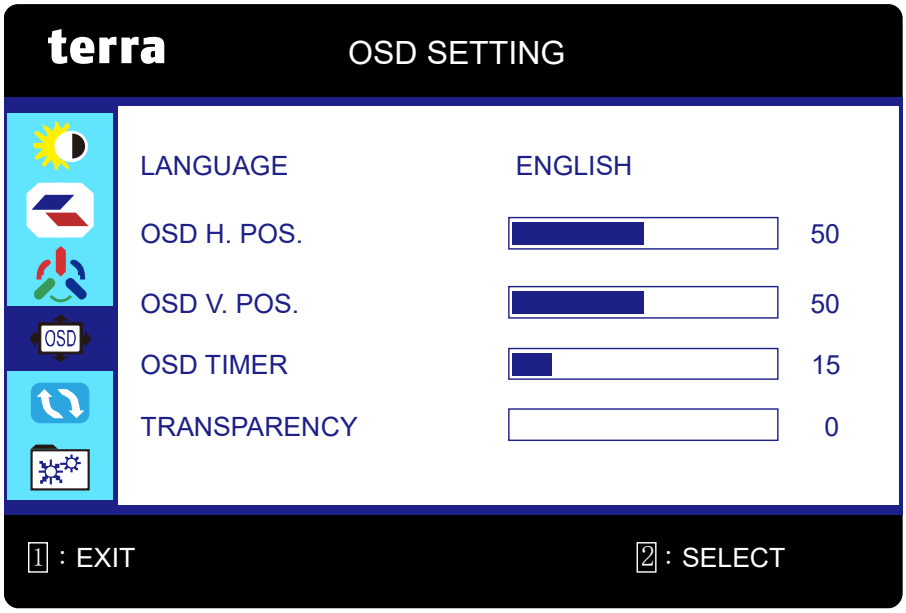
- **ASPECT:** To select the video mode from WIDE, 4:3 or AUTO.
  WIDE: To select wide size image.
  4:3: To select 4:3 image size.
  AUTO: To select auto size image.
- **PICTURE MODE:** Provides an optimum display environment depending on the contents displayed. It contains 4 user-selectable presets.
  STANDARD is for general windows environment and monitor default setting.
  TEXT optimized for text editing and viewing in a word processing environment.
  GAME optimized for PC game environment.
  MOVIE optimized for movie and video environment.



COLOR TEMP.: To select the color for improving brightness and color saturation between COLOR TEMP. and ANTI BLUE LIGHT.

- **COLOR TEMP.:** To adjust the default picture color. It contains 4 user-selectable presets.
  NORMAL: Adds red to screen image for warmer white and richer red.
  COOL: Adds blue to screen image for cooler white.
  USER: Individual adjustments for RED (R), GREEN (G), BLUE (B).
  1. Press button 2 to select the desired color.
  2. Press **<** or **>** button to adjust selected color.

  WARM: Adds green to screen image for a darker color.
- **ANTI BLUE LIGHT:** Decreases the blue light emitted from the display to reduce the risk of blue light exposure to your eyes.



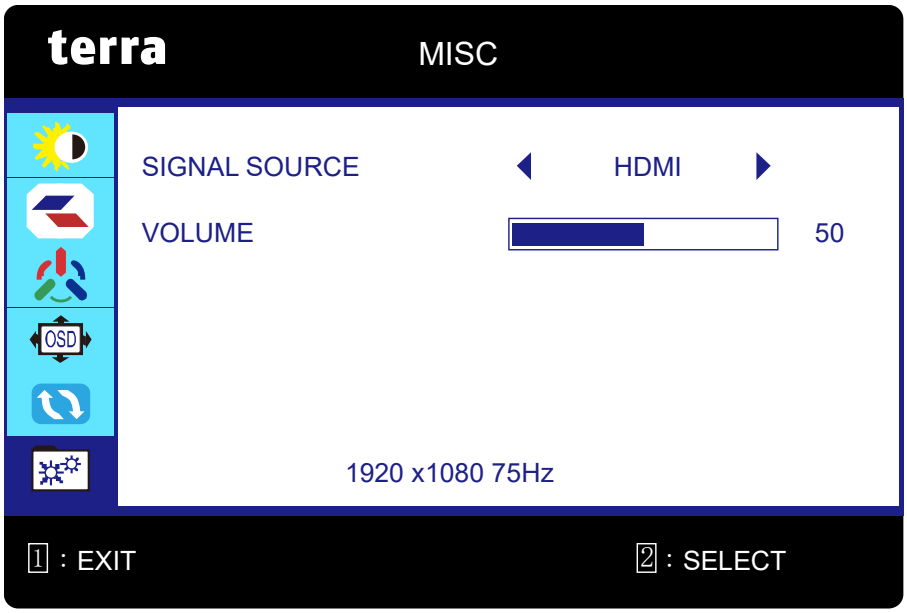
OSD SETTING: To set up LANGUAGE, OSD H. POS., OSD V. POS., OSD TIMER and TRANSPARENCY.

- **LANGUAGE:** To allow users to choose from available languages.
- **OSD H. POS.:** To horizontally adjust the OSD position.
  <: move OSD to the right, **>**: move OSD to the left.
- **OSD V. POS.:** To vertically adjust the OSD position.
  <: move OSD to the up, **>**: move OSD to the down.
- **OSD TIMER:** To automatically turn off On Screen Display (OSD) after a preset period of time.
- **TRANSPARENCY:** To adjust the transparency of the OSD background.



RESET: To recall factory settings for Video & Audio controls.

- **RESET:** Press button 2 to select the Reset menu option.



MISC: To manually adjust the SIGNAL SOURCE and VOLUME.

- **SIGNAL SOURCE:** When Input Source is pressed, change Input signal to HDMI or DISPLAYPORT.
- **VOLUME:** To adjust the volume of speaker output.

Supporting Timing Modes

VGA	720 x 400 @ 70Hz
VGA	640 x 480 @ 60Hz
MAC	640 x 480 @ 67Hz
VESA	640 x 480 @ 72Hz
VESA	640 x 480 @ 75Hz
VESA	800 x 600 @ 56Hz
VESA	800 x 600 @ 60Hz
VESA	800 x 600 @ 72Hz
VESA	800 x 600 @ 75Hz
MAC	832 x 624 @ 75Hz
VESA	1024 x 768 @ 60Hz
VESA	1024 x 768 @ 70Hz
VESA	1024 x 768 @ 75Hz
VESA	1280 x 960 @ 60Hz
VESA	1152 x 864 @ 75Hz
MAC	1152 x 870 @ 75Hz
VESA	1280 x 1024 @ 60Hz
VESA	1280 x 1024 @ 75Hz
VESA	1440 x 900 @ 60Hz
VESA	1440 x 900 @ 75Hz
CVT	1400 x 1050 @ 60Hz
VESA	1600 x 1200 @ 60Hz
VESA	1680 x 1050 @ 60Hz
VESA	1920 x 1080 @ 60Hz
VESA	1920 x 1080 @ 75Hz

*Video Timing Modes

- 480i
- 480p
- 576i
- 576p
- 720p
- 1080i
- 1080p

Warning: Do not set the graphic card in your computer to exceed these maximum refresh rates. Doing so may result in permanent damage to your monitor.

Technical Information

Technical Specification

LCD Panel	54.5 cm (21.45")
Power Management	VESA DPMS compatible Off Mode, ≤ 0.3 W
Displayable Resolution	Full HD 1920 x 1080 max. Vertical Frequency 75Hz max.
Pixel Dimension	0.241 x 0.241 mm
LCD Display Color	16.7M
Active Display Area	478.65 mm x 260.18 mm
Environmental conditions	**Operating** Temperature: 0°C to 40°C Humidity: 10% to 90%, non-condensing **Storage** Temperature: -20°C to 60°C Humidity: 10% to 90%, non-condensing
Compliance	CE, UKCA, WEEE, RoHS, BSMI
Power	Input Voltage DC +12V ⎓ 2.5A FSP, FSP030-DHAN3
Speaker	2W x 2

Care and Maintenance

Care

- Avoid exposing your monitor directly to sunlight or other heat source. Place your monitor away from the sun to reduce glare.
- Put your monitor in a well ventilated area.
- Do not place any heavy things on top of your monitor.
- Make certain your monitor is installed in a clean and moisture-free area.
- Keep your monitor away from magnets, motors, transformers, speakers, and TV sets.

Note

- Move the monitor out of the package and take off the plastic bag and Polystyrene Foam.
- Adjust the tilt of the screen for an optimum seating and viewing position.

Safety Tips

- If smoke, abnormal noise or odor came out from your monitor, caution you should remove the power cord immediately and call your service center.
- Never remove the rear cover of your monitor cabinet. The display unit inside contains high-voltage parts and may cause electric shock to human bodies.
- Never try to repair your monitor yourself. Always call your service center or a qualified technician to fix it.

Troubleshooting

No power

- Make sure AC power cord is securely connected to the power adapter and the power supply is firmly connected to the monitor.
- Plug another electrical device into the power outlet to verify that the outlet is supplying proper voltage.
- Make sure all signal cables are installed.

Power on but no screen image

- Make sure the video cable supplied with the monitor is tightly secured to the video output port on back of the computer. If not, tightly secure it.
- Adjust brightness.

Wrong or abnormal colors

- If any colors (red, green, blue) are missing, check the video cable to make sure it is securely connected. Loose or broken pins in the cable connector could cause an improper connection.
- Connect the monitor to another computer.
- Set all values to the default settings (see “RESET” function).

WEEE Statement



Wichtige Recyclinginformation

Das Gerät darf nach dem Ende der Nutzungszeit nicht mit dem Restmüll entsorgt werden. Bitte führen Sie es zur umweltgerechten Entsorgung den kommunalen Altgeräte-Sammelstellen zu.

Für weitere Informationen wenden Sie sich bitte an die unten stehende Adresse.

Important Information for Recycling

This warning sign of trash bin indicates that the objects are not allowed to be disposed as general refuse. Please follow the local act and carry out further disposal with refuse recycling and collecting system in your Country or District.

Please contact the address below for more information on recycling.

Informations importantes relatives au recyclage

En fin de vie, cet appareil ne dois pas étre jeté aux ordures ménagères.

Veuillez respecter les réglementations locales et rester en conformité avec le système de collecte et de recyclage des ordures en vigueur dans votre région.

Pour plus d'information sur le recyclage, veuillez contacter votre centre de recyclage agréé.

Votre attitude quand au recyclage améliorera l'avenir de la planète et créera un environnement de vie de qualité pour les générations futures.

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32609 Hüllhorst
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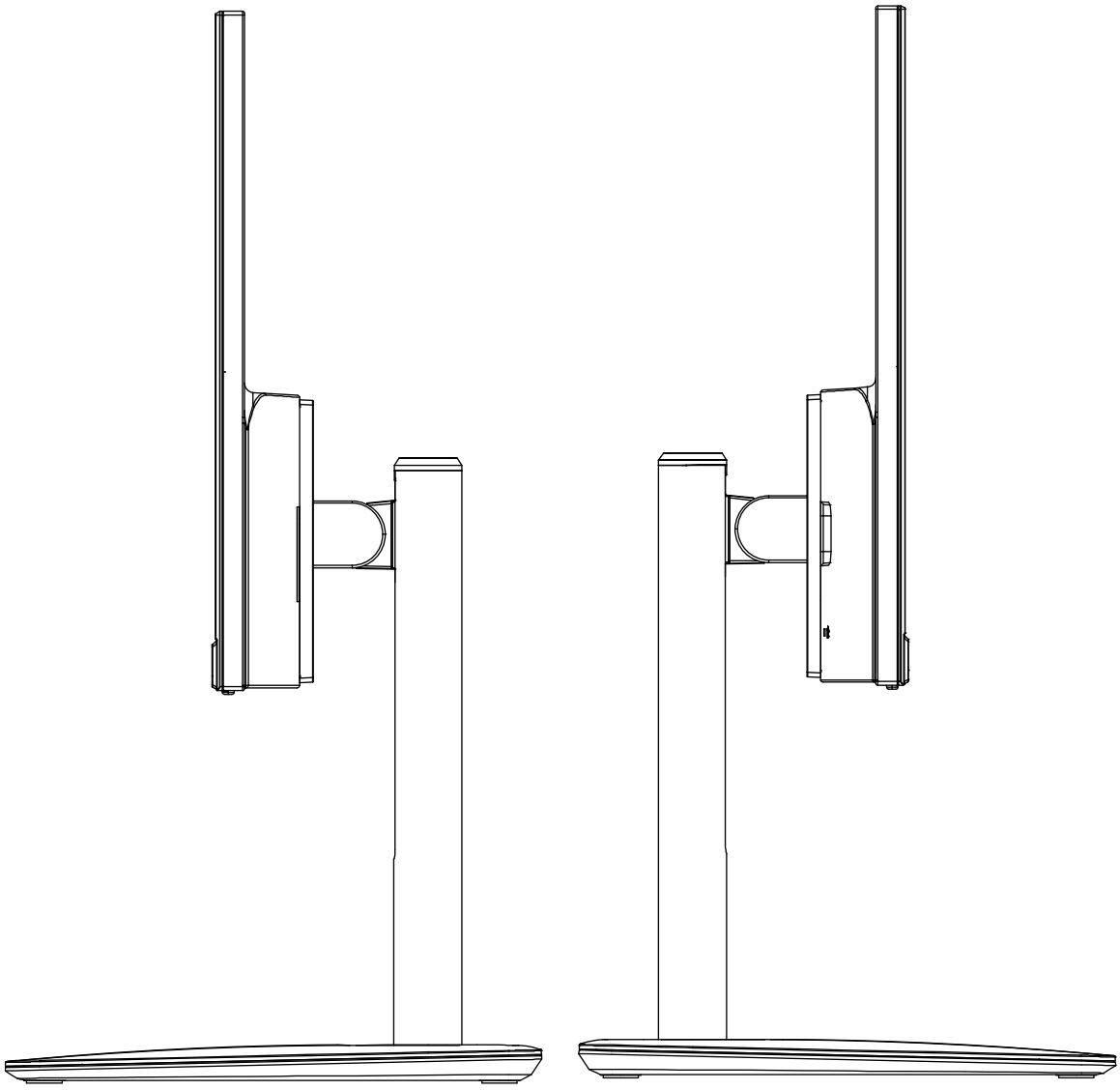
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