# **Dell UltraSharp 32 6K Monitor** -**U3224KBA** User's Guide



- NOTE: A NOTE indicates important information that helps you make better use of your computer.
- CAUTION: A CAUTION indicates potential damage to hardware or loss of data if instructions are not followed.
- <u>M</u> WARNING: A WARNING indicates a potential for property damage, personal injury, or death.

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2023 - 05

Rev. A00

# Contents

| Safety instructions6                                    |
|---|
| About your monitor7                                     |
| Package contents  |
| Product features  |
| Identifying parts and controls                          |
| Front view  |
| Back view   |
| Bottom view   |
| Monitor specifications                                  |
| Resolution specifications                               |
| Preset display modes                                    |
| Thunderbolt <sup>™</sup> 4 out for daisy chain          |
| Unified Communications (UC) Platform Compatibility List |
| Electrical specifications                               |
| Webcam – microphone specifications                      |
| Speaker Specifications                                  |
| Physical characteristics                                |
| Environmental characteristics                           |
| Video Bandwidth   |
| Pin assignments   |
| Plug-and-Play capability                                |
| LCD monitor quality and pixel policy                    |
| Ergonomics  |
| Handling and moving your display                        |
| Maintenance guidelines                                  |
| Cleaning your monitor                                   |

| Setting up the monitor   | 39        |
|--|-----------|
| Attaching the stand  | 39        |
| Using the tilt, swivel, and vertical extension                             | 42        |
| Tilt, swivel, and vertical extension                                       | .42       |
| Rotating the Display   | 43        |
| Organizing your cables   | <b>44</b> |
| Connecting your monitor  | 45        |
| Dell Power Button Sync (DPBS)  | 51        |
| Connecting the monitor for DPBS for the first time                         | .54       |
| Using DPBS function  |           |
| Connecting the monitor for Thunderbolt $^{	extsf{M}}$ daisy chain function | .57       |
| Connecting the monitor for Thunderbolt ${}^{\mathrm{TM}}4$                 | .58       |
| Operating the monitor webcam   | 60        |
| Dell Peripheral Manager  | . 61      |
| Securing your monitor using Kensington lock (optional)                     | 62        |
| Removing the monitor stand   | 63        |
| Wall mounting (Optional)   | 64        |
| Operating the monitor  | 65        |
| Power on the monitor   | 65        |
| Using the joystick control   | 65        |
| Using the rear-panel controls  | 67        |
| Front-panel button   | .68       |
| Using the Main Menu  | 69        |
| Using the OSD lock function  | 86        |
| Initial Setup  | .89       |
| OSD warning messages   | .90       |
| Setting the maximum resolution   | .93       |
| Setting up Windows Hello   | 94        |
| Setting up the monitor webcam as default setting                           |           |
| Setting up the monitor speaker as default setting                          | 103       |

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| Troubleshooting  |
|--|
| Self-test  |
| Built-in diagnostics   |
| Common Problems  |
| Product specific problems  |
| Microsoft® Teams® / Skype for Business® specific problems . 121    |
| Universal Serial Bus (USB) specific problems                       |
| Appendix   |
| FCC notices (U.S. only) and other regulatory information 123       |
| Contacting Dell  |
| EU product database for energy label and product information sheet |

| 5

# Safety instructions

Use the following safety guidelines to protect you monitor from potential damage and to ensure your personal safety. Unless otherwise noted, each procedure included in this document assumes that you have read the safety information that shipped with your monitor.

## NOTE: Before using the monitor, read the safety information that is shipped with your monitor and printed on the product. Keep the documentation at a secure location for future reference.

→ WARNING: Use of controls, adjustments, or procedures other than those specified in this documentation may result in exposure to shock, electrical hazards, and/or mechanical hazards.

# WARNING: The possible long-term effect of listening to audio at high volume through the headphones (on monitor that support it) may cause damage to your hearing ability.

- Place the monitor on a solid surface and handle it carefully. The screen is fragile and can be damaged if dropped or hit with a sharp object.
- Ensure that your monitor is electrically rated to operate with the AC power available in your location.
- Keep the monitor in room temperature. Excessive cold or hot conditions can have an adverse effect on the liquid crystals of the display.
- Connect the power cable from the monitor to a wall outlet that is near and accessible. See Connecting your monitor.
- $\cdot\;$  Do not place and use the monitor on a wet surface or near water.
- Do not subject the monitor to severe vibration or high impact conditions. For example, do not place the monitor inside a car trunk.
- · Unplug the monitor when it is going to be left unused for an extended period.
- To avoid electric shock, do not attempt to remove any cover or touch the inside of the monitor.
- Read these instructions carefully. Keep this document for future reference. Follow all warnings and instructions marked on the product.
- Certain monitors can be wall mounted using the VESA mount that is sold separately. Ensure to use the correct VESA specifications as mentioned in the wall mounting section of the User's Guide.

For information on safety instructions, see the Safety, Environmental, and Regulatory Information (SERI) document that is shipped with your monitor.



# About your monitor

# Package contents

The following table provides the list of components that are shipped with your monitor, If any component is missing, contact Dell. For more information, see **Contact Dell**.

#### NOTE: Some items may be optional and may not ship with your monitor. Some features may not be available in certain countries.

| Component image | Component description           |
|-----------------|---------------------------------|
|                 | Display                         |
|                 | Stand riser                     |
|                 | Stand base                      |
|                 | Power cable (varies by country) |

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| DisplayPort cable (mDP to mDP)   |
|--|
| USB 3.2 Gen2 Type-A to Type-C<br>upstream cable  |
| Thunderbolt <sup>™</sup> 4 cable   |
| <ul> <li>Quick Setup Guide</li> <li>Safety, Environmental, and Regulatory<br/>Information</li> <li>Factory Calibration Report</li> </ul> |

# **Product features**

The **Dell UltraSharp U3224KBA** monitor has an active matrix, Thin-Film Transistor (TFT), Liquid Crystal Display (LCD), and LED backlight. The monitor features include:

- 79.94 cm (31.5 in.) active area display (Measured diagonally) 6144 x 3456 (16:9) resolution, plus full-screen support for lower resolutions.
- Wide viewing angles with 100% sRGB color, 99% DCI-P3, 100% Rec.709 & 99% Display P3.
- Tilt, swivel, pivot, and vertical extension adjustment capabilities.
- Built-in speakers (2 x 14 W).
- Removable pedestal stand and Video Electronics Standards Association (VESA™) 100 mm mounting holes for flexible mounting solutions.
- Ultra-thin bezel minimizes the bezel gap during multi-monitor usage, enabling easier set up with an elegant viewing experience.
- Extensive digital connectivity with DP helps future-proof your monitor.
- Thunderbolt<sup>™</sup> 4 to supply power to compatible notebook while receiving video signal.
- Thunderbolt<sup>™</sup> 4 and RJ45 ports enable a single-cable, network-connected experience.
- Plug and play capability if supported by your computer.
- On-Screen Display (OSD) adjustments for ease of set-up and screen optimization.



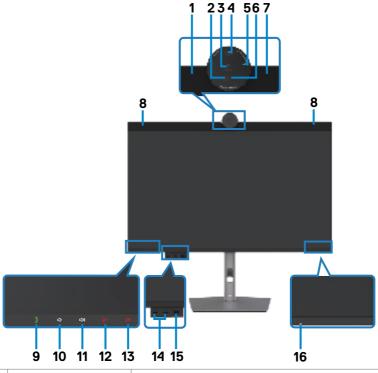
- Power and OSD buttons lock.
- · Security lock slot.
- Stand lock.
- · Power consumption ≤0.5W in Standby Mode.
- Supports Picture by Picture (PBP) and Picture in Picture (PIP) Select mode.
- Allow user to switch USB KVM function in PBP/PIP mode.
- The monitor is designed with Dell Power Button Sync (DPBS) feature to control PC system power state from monitor power button.
- · Premium Panel Exchange for peace of mind.
- Optimize eye comfort with a flicker-free screen and ComfortView Plus feature.
- This monitor uses low blue light panel. When the monitor is reset to factory settings or default setting (**Preset mode: Standard**), it works in compliance with TUV Rheinland (hardware solutions provider).
- Decreases the level of hazard blue light emitted from the screen to make viewing more comfortable for your eyes.
- The monitor adopts Flicker-Free technology, which clears the eye visible flicker, brings comfort viewing experience and preventing users suffer from eye strain and fatigue.
- Certified for Windows Hello<sup>®</sup> (Face Authentication) and supports Microsoft Cortana<sup>®</sup>.
- · Additional customization using Dell Peripheral Manager.

 $\dot{\square}$  WARNING: The possible long-term effects of blue light emission from the monitor may cause damage to the eyes, which includes but is not limited to eye fatigue and digital eyestrain. ComfortView Plus feature is designed to reduce the amount of blue light emitted from the monitor to optimize eye comfort.

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# Identifying parts and controls

# Front view

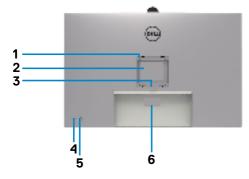


| Label | Description       | Use   |
|-------|-------------------|---|
| 1,7   | Microphones       | Monitor microphones (Mic).                          |
| 2     | IR LED            | Indicator of infrared (IR).                         |
| 3     | RGB Camera        | Transmits your image in a video conference.         |
| 4     | Proximity Sensor  | The human presence wake & lock feature.             |
| 5     | Webcam LED        | Indicator of Webcam. It will light up in white when |
|       | indicator         | webcam is in use.                                   |
| 6     | IR Camera         | The face recognition feature.                       |
| 8     | Built-in speakers | To output the sound from audio input.               |

| 9  | Hookswitch & LED                                | LED will blink in green when there is an incoming<br>Teams/Skype for Business (SfB) call.<br>LED will light up in static green during Teams/Skype<br>for Business (SfB) call.<br>Short press to answer / end call.<br>Long press to reject incoming call.  |
|----|---|--|
| 10 | Volume down & LED                               | Short press for 2 unit volume decrement.<br>Long press for continuous volume decrement.  |
| 11 | Volume up & LED                                 | Short press for 2 unit volume increment.<br>Long press for continuous volume increment.  |
| 12 | Microphone mute<br>& LED                        | Press to mute and unmute microphone.<br>LED will light up in static red when mic is muted.<br>LED will go dark when mic is enabled/unmuted.  |
| 13 | Camera Mute & LED                               | Press to lock and unlock camera shutter.<br>If locked, icon will light up in red, no software can<br>override and open camera shutter to use the camera.<br>If unlocked, icon will not light up, software can open<br>camera shutter to use the camera when it's needed.<br><b>NOTE:</b> This camera disable button must not be<br>confused with "Webcam and presence sensor:<br>enable / disable" in OSD.<br>Disabling "webcam & presence sensor" will turn off<br>the whole webcam module, webcam and sensor will<br>not appear in the system. |
| 14 | USB Type-C<br>downstream port<br>(USB 3.2 Gen2) | Port with <sup>10</sup> / <sub>10</sub> icon supports 5 V/3 A.<br>Connect your USB device. You can use these ports<br>only after you have connected the USB cable (Type-A<br>to Type-C or Thunderbolt <sup>™</sup> 4) from the computer to<br>the monitor.<br><b>NOTE:</b> This port is downstream only and unable to<br>broadcast video or sound to the display or speakers.  |
| 15 | Super speed USB 10<br>Gbps (USB 3.2<br>Gen2)    | Connect your USB device. You can use these ports<br>only after you have connected the USB cable from the<br>computer to the monitor.<br>Port 15 with 10 battery icon supports Battery<br>Charging Rev. 1.2.  |
| 16 | Power LED indicator                             | Solid white light indicates the monitor is turned on and functioning normally. Breathing white light indicates the monitor is in Standby Mode.   |



# Back view

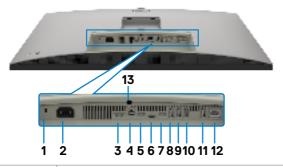




| Label | Description  | Use   |
|-------|--|---|
| 1     | VESA mounting holes (100 mm<br>x 100 mm-behind attached<br>VESA cover) | Wall mount monitor using VESA-<br>compatible wall mount kit (100 mm x 100<br>mm).   |
| 2     | Regulatory label   | Lists the regulatory approvals.   |
| 3     | Stand release button   | Releases stand from the monitor.  |
| 4     | Power On/Off button  | To turn the monitor on or off.  |
| 5     | Joystick   | Use it to control the OSD menu.<br>For more information, see <b>Operating the</b><br><b>Monitor</b> .   |
| 6     | Mac address, Barcode, serial<br>number, and Service Tag label          | Refer to this label if you need to contact Dell<br>for technical support. The Service Tag is a<br>unique alphanumeric identifier that enables<br>Dell service technicians to identify the<br>hardware components in your computer and<br>access warranty information. |
| 7     | Cable-management slot  | Use to organize cables by inserting them through the slot.  |



## **Bottom view**



| Label | Description   | Use   |
|-------|---|---|
| 1     | Security lock slot                                      | Secures monitor with security cable lock (sold separately)  |
|       | (based on<br>Kensington<br>Security Slot <sup>™</sup> ) |   |
| 2     | Power connector   | Connect the power cable.  |
| 3     | HDMI port   | Connect your computer with the HDMI cable.  |
| 4     | mDP   | Connect your computer with the mDP to mDP cable.  |
| 5     | Thunderbolt <sup>™</sup> 4<br>downstream                | Thunderbolt <sup>™</sup> 4 downstream port only suitable for video output under Daisy chain, Connecting the monitor for TBT daisy chain.                          |
|       |   | NOTE:<br>1) Thunderbolt™ 4 up to 40Gbs bandwidth;   |
|       |   | 2) Support up to two 6K monitors through the Daisy chain;   |
|       |   | 3) The highest power output up to 15W;  |
|       |   | 4) USB-C downstream port supports 5V/3A.  |
| 6     | USB-C upstream port                                     | Connect the USB cable that comes with your monitor to<br>the computer. Once this cable is connected, you can use<br>the USB downstream connectors on the monitor. |

| Thunderbolt <sup>™</sup> 4                   | Connect to your computer using the Thunderbolt $^{\mbox{\tiny TM}}$ cable.   |
|--|--|
| upstream                                     | The Thunderbolt <sup>TM</sup> 4 upstream offer the fastest transfer rate (USB 4 40Gbps), TBT mode and the alternate mode with DP 1.4 support the following, and PD 28 V/5 A, 20V/4.5A, 15 V/3 A, 9 V/3 A, 5 V/3 A. |
|  | Maximum resolution of 6144 x 3456 at 60 Hz (DSC)   |
|  | The Thunderbolt <sup>™</sup> 4 upstream power is more than 100W, the connected equipment and accessory cables should have fire enclosure of V1 level or higher and VW-1 rating wire.                               |
|  | This model will feature Thunderbolt <sup>™</sup> 4.0 technology<br>and will have a 140W power delivery, it is recommended<br>for use the following Dell's products that meet the fire<br>enclosures.               |
|  | <b>NOTE:</b> Thunderbolt <sup>™</sup> 4 upstream is not supported on Windows versions that are prior to Windows 10.  |
| Super speed USB<br>10 Gbps (USB 3.2<br>Gen2) | Connect your USB device. You can use these ports<br>only after you have connected the USB cable from the<br>computer to the monitor.   |
| RJ-45 connector<br>(2.5G)                    | Connect Internet. You can surf Internet via RJ45 only after you have connected the USB cable (Type-A to Type-C or Thunderbolt <sup>™</sup> 4) from the computer to the monitor.                                    |
| Stand lock                                   | Lock the stand to the monitor using a M3 x 8 mm screw (screw not included).  |
|  | upstream<br>Super speed USB<br>10 Gbps (USB 3.2<br>Gen2)<br>RJ-45 connector<br>(2.5G)  |

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# **Monitor specifications**

| Monitor spec                    |   |
|---------------------------------|---|
| Screen type                     | Active matrix - TFT LCD                                       |
| Panel Type                      | In-plane switching Technology                                 |
| Aspect ratio                    | 16:9  |
| Viewable image dimensions       |   |
| Diagonal                        | 79.94 cm<br>(31.5 in.)  |
| Active Area                     |   |
| Horizontal                      | 696.73 mm<br>(27.43 in.)                                      |
| Vertical                        | 391.91 mm<br>(15.43 in.)                                      |
| Area                            | 273,055.45 mm <sup>2</sup><br>(423.24 in. <sup>2</sup> )      |
| Pixel pitch                     | 0.1134(H) mm x 0.1134(V) mm                                   |
| Pixel per inch<br>(PPI)         | 223   |
| Viewing angle                   |   |
| Horizontal                      | 178° (typical)  |
| Vertical                        | 178° (typical)  |
| Brightness                      | 450 cm/m <sup>2</sup> (typical)                               |
| Contrast ratio                  | 2000 to 1 (typical)   |
| Display screen coating          | Anti-glare treatment of the front polarizer (3H) hard coating |
| Backlight                       | LED   |
| Response Time<br>(Gray to Gray) | 5 ms (Fast mode)<br>8 ms (Normal mode)                        |
| Color depth <sup>1</sup>        | 1.07 billion colors   |
| Color gamut <sup>2</sup>        | sRGB 100%<br>Rec. 709 100%<br>DCI-P3 99%<br>Display-P3 99%    |

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| Connectivity       | • 1 x Mini DP 2.0 (HDCP 2.2)(Supports up to 6K 6144 x 3456 60Hz 10bit, HDR)                                 |
|--------------------|---|
|                    | • 1 x HDMI (HDCP 2.2)(Supports up to 6K 6144 x 3456 60Hz 10bit FRL, HDR as per specified in HDMI 2.1)       |
|                    | <ul> <li>•1 x Thunderbolt<sup>™</sup> 4 upstream (EPR PD 140W) with DSC</li> </ul>                          |
|                    | (Alternate mode with DisplayPort 1.4/1.2, USB 3.2 Gen 2<br>upstream port, Power Delivery up to 140 W)       |
|                    | <ul> <li>• 1 x Thunderbolt<sup>™</sup> 4 downstream (15W) for video output under<br/>Daisy chain</li> </ul> |
|                    | • 1 x USB Type-C (USB 3.2 Gen 2 upstream port)  |
|                    | • 4 x super speed USB 10 Gbps (USB 3.2 Gen 2)   |
|                    | •1x RJ45 (2.5G)   |
|                    | Quick Access:   |
|                    | •1 x USB-A (USB3.2 Gen 2 10 Gbps) with BC1.2  |
|                    | · 2 x USB Type-C downstream (15 W), USB 3.2 Gen 2 (10 Gbps)   |
| Border width (edge | e of monitor to active area)  |
| Тор                | 42.93 mm  |
| Left/Right         | 10.35 mm  |
| Bottom             | 23.05 mm  |
| Adjustability      |   |
| Stand              |   |
| Height             | 160 mm  |
| Tilt               | -5° to 21°  |
| Swivel             | -30° to 30°   |
| Pivot              | -90° to 90°   |
| Slant              | NA  |
| Camera             |   |
| Tilt               | -20° to 0°  |
| Cable              | Yes   |
| management         |   |
| Dell Display       | Easy Arrange  |
| Manager (DDM)      | and other key features  |
| Compatibility      |   |
| Security           | Security lock slot (cable lock sold separately)   |

- <sup>1</sup> Video output from mDP/HDMI port at maximum resolution 6144 x 3456 at 60Hz is 1.07 billion colors. Video output from Thunderbolt<sup>™</sup> 4 upstream at maximum resolution 6144 x 3456 at 60Hz is 1.07 billion colors with DSC.
- <sup>2</sup> At panel native only, under Color Space preset.

#### **Resolution specifications**

| Horizontal scan range   | 30 kHz to 220 kHz                                 |
|---|---|
| Vertical scan<br>range  | 56 Hz to 76 Hz                                    |
| Maximum preset resolution   | 6144 x 3456 at 60 Hz                              |
| Video display<br>capabilities<br>(HDMI & mDP &<br>Thunderbolt <sup>™</sup> 4<br>alternate mode) | 480p, 576p, 720p, 1080i (HDMI only), 1080p, 2160p |

## Preset display modes

| Display mode      | Horizontal<br>frequency<br>(kHz) | Vertical<br>frequency<br>(Hz) | Pixel<br>clock<br>(MHz) | Sync polarity<br>(Horizontal/<br>Vertical) |
|-------------------|----------------------------------|-------------------------------|-------------------------|--|
| VESA, 720 x 400   | 31.47                            | 70                            | 28.32                   | -/+  |
| VESA, 640 x 480   | 31.47                            | 60                            | 25.17                   | -/-  |
| VESA, 640 x 480   | 37.50                            | 75                            | 31.5                    | -/-  |
| VESA, 800 x 600   | 37.88                            | 60                            | 40                      | +/+  |
| VESA, 800 x 600   | 46.88                            | 75                            | 49.5                    | +/+  |
| VESA, 1024 x 768  | 48.36                            | 60                            | 65                      | -/-  |
| VESA, 1024 x 768  | 60.02                            | 75                            | 78.75                   | +/+  |
| VESA, 1152 x 864  | 67.50                            | 75                            | 108                     | +/+  |
| VESA, 1280 x 1024 | 64.0                             | 60                            | 108                     | +/+  |
| VESA, 1280 x 1024 | 80.0                             | 75                            | 135                     | +/+  |
| VESA, 1600 x 900  | 55.99                            | 60                            | 118.25                  | +/+  |
| VESA, 1920 x 1080 | 67.50                            | 60                            | 148.50                  | +/+  |
| CVR, 2560 x 1440  | 88.79                            | 60                            | 241.50                  | +/+  |
| VESA, 3840 x 2160 | 133.31                           | 60                            | 533.25                  | +/-  |
| VESA, 3840 x 2160 | 135.00                           | 60                            | 594                     | +/-  |
| VESA, 1280 x 800  | 49.306                           | 59.91                         | 71                      | +/+  |
| VESA, 1680 x 1050 | 64.674                           | 59.883                        | 119                     | +/+  |
| VESA, 1920 x 1200 | 74.038                           | 59.95                         | 154                     | +/+  |
| VESA, 1600 x 1200 | 75                               | 60                            | 162                     | +/+  |
| VESA, 3840 x 2160 | 54                               | 24                            | 297                     | +/-  |
| VESA, 3840 x 2160 | 56.25                            | 25                            | 297                     | +/-  |
| VESA, 3840 x 2160 | 65.68                            | 30                            | 297                     | +/-  |
| CVT, 5120 x 2880  | 177.71                           | 60                            | 952.5                   | +/-  |
| CVT, 6016 x 3384  | 208.85                           | 60                            | 1323.25                 | +/-  |
| CVT, 6144 x 3456  | 105.14                           | 30                            | 662.75                  | +/-  |
| CVT, 6144 x 3456  | 213                              | 60                            | 1378.75                 | +/-  |



#### Thunderbolt<sup>™</sup> 4 out for daisy chain

OSD Display Info: Link rate(current) Maximum external monitor resolution that can be supported

6144 x 3456 at 60 Hz

NOTE: Maximum external monitor resolution with the maximum number of external monitors supported is 6144 x 3456 at 60Hz only when DSC is enabled on graphic cards or with graphic cards that support DSC.

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# Unified Communications (UC) Platform Compatibility List

The table below highlights the call functions that work on the Dell Video Conferencing Monitor – U3224KBA when using the following UC platforms<sup>#</sup>.

| Call Functions        | Answer call | End call   | Reject call | Adjust Speaker<br>volume down | Adjust Speaker<br>volume up | Mute/<br>Unmute<br>Microphone |
|-----------------------|-------------|------------|-------------|-------------------------------|-----------------------------|-------------------------------|
| Button                | Hookswitch  | Hookswitch | Hookswitch  | Volume Down                   | Volume Up                   | Mute                          |
| Microsoft<br>Teams    | V           | V          | V           | V                             | V                           | V                             |
| Skype for<br>Business | V           | V          | V           | V                             | V                           | V                             |
| Zoom                  | ×           | ×          | ×           | $\checkmark$                  | $\checkmark$                | $\checkmark^*$                |
| Google<br>Hangouts    | ×           | ×          | ×           | V                             | V                           | <b>v</b> *                    |
| BlueJeans             | ×           | ×          | ×           | V                             | V                           | $\sqrt{*}$                    |
| Cisco Webex           | ×           | ×          | ×           | V                             | V                           | <b>√</b> *                    |
| FaceTime              | ×           | ×          | ×           | V                             | V                           | $\sqrt{*}$                    |
| Slack                 | ×           | ×          | ×           | V                             | V                           | $\sqrt{*}$                    |
| GoTo Meeting          | ×           | ×          | ×           | V                             | V                           | $\checkmark^*$                |
| Google Meet           | ×           | ×          | ×           | V                             | V                           | $\checkmark^*$                |
| Lifesize              | ×           | ×          | ×           | V                             | V                           | <b>v</b> *                    |
| Discord               | ×           | ×          | ×           | V                             | V                           | <b>v</b> *                    |
| Ring Central          | ×           | ×          | ×           | V                             | V                           | $\checkmark^*$                |

 $\checkmark$  Call function on the Dell U3224KBA works with the UC platform

× Call function on the Dell U3224KBA does not work with the UC platform

\* Mute function on the Dell U3224KBA works by pressing the Mute button, but the Mute Icon on the UC platform is not sync (Icon shows unmute).

<sup>#</sup> On Windows 10 64 Bit OS

#### **Electrical specifications**

| Video input                             | <ul> <li>Digital video signal for each differential line</li> </ul> |  |  |
|---|---|--|--|
| signals                                 | Per differential line at 100 ohm impedance                          |  |  |
|   | • mDP/HDMI/Thunderbolt <sup>™</sup> 4 signal input support          |  |  |
| Input voltage/<br>frequency/<br>current | 100-240 VAC / 50 or 60 Hz ± 3 Hz / 4.6 A (maximum)                  |  |  |
| Inrush current                          | 120 V: 42 A (Max.)  |  |  |
|   | 240 V: 80 A (Max.)  |  |  |
|   | Inrush current is measured at an ambient temperature of 0°C         |  |  |
| Power                                   | 0.3 W (Off Mode) <sup>1</sup>                                       |  |  |
| Consumption                             | 0.5 W (Standby Mode) <sup>1</sup>                                   |  |  |
|   | 2.0 W (Networked standby Mode) <sup>1</sup>                         |  |  |
|   | 68.1 W (On Mode) <sup>1</sup>                                       |  |  |
|   | 420 W (Max) <sup>2</sup>  |  |  |
|   | 69.62 W (P <sub>on</sub> ) <sup>3</sup>                             |  |  |
|   | 231.11 kWh (TEC) <sup>3</sup>                                       |  |  |

<sup>1</sup>As defined in EU 2019/2021 and EU 2019/2013.

<sup>2</sup>Max brightness and contrast setting with maximum power loading on all USB ports.

- <sup>3</sup>P<sub>on</sub>: Power consumption of On Mode measured with reference to Energy Star test method.
  - TEC: Total energy consumption in kWh measured with reference to Energy Star test method.

This document is informational only and reflects laboratory performance. Your product may perform differently, depending on the software, components, and peripherals you ordered and shall have no obligation to update such information. Accordingly, the customer should not rely upon this information in making decisions about electrical tolerances or otherwise. No warranty as to accuracy or completeness is expressed or implied.

# Webcam – microphone specifications

| Lens                | Field of view (horizontal) | 65 / 78 / 90 degree                                  |  |
|---------------------|----------------------------|--|--|
|                     | Focus mode                 | 5x digital zoom                                      |  |
|                     | Focus area                 | 25 cm ~ ∞  |  |
|                     | Focusing distance          | 500 cm   |  |
| Image Sensor        | Active array size          | 8 mega-pixel   |  |
| Video Specification | Video frame rate           | 3840 x 2160 (4K UHD)- up<br>to 30 frames per second  |  |
|                     |                            | 1920 x 1080 (Full HD)- up<br>to 60 frames per second |  |
| Audio Specification | Microphone type            | Digital microphone x 2                               |  |

# **Speaker Specifications**

| Speaker rated power | 2 x 14 W        |
|---------------------|-----------------|
| Frequency Response  | 100 Hz - 20 kHz |
| Impedance           | 4 ohm           |

# **Physical characteristics**

| Connector type         | • mDP connector  |
|------------------------|--|
|                        | HDMI connector   |
|                        | RJ45 connector   |
|                        | <ul> <li>Thunderbolt<sup>™</sup> 4 upstream connector</li> </ul>   |
|                        | <ul> <li>Thunderbolt<sup>™</sup> 4 downstream connector</li> </ul> |
|                        | • USB Type-C upstream connector                                    |
|                        | • USB 3.2 Gen 2 downstream connector x 5                           |
|                        | $\cdot$ USB Type-C downstream connector x 2                        |
| Signal cable type      | mDP to mDP 1M cable  |
|                        | USB 3.2 Gen 2 Type-A to C 1M cable                                 |
|                        | Thunderbolt <sup>™</sup> 4 1.5M cable                              |
| Dimensions (with stand | )  |
| Height (extended)      | 682.63 mm (26.88 in.)  |
| Height (compressed)    | 522.63 mm (20.58 in.)  |

| Width   | 717.42 mm (28.24 in.) |  |
|---|-----------------------|--|
| Depth   | 237 mm (9.33 in.)     |  |
| Dimensions (without sta   | and)                  |  |
| Height  | 486.64 mm (19.16 in.) |  |
| Width   | 717.42 mm (28.24 in.) |  |
| Depth   | 66.29 mm (2.61 in.)   |  |
| Stand dimensions  |                       |  |
| Height (extended)   | 483.30 mm (19.03 in.) |  |
| Height (compressed)   | 436.50 mm (17.19 in.) |  |
| Width   | 316.00 mm (12.44 in.) |  |
| Depth   | 237.00 mm (9.33 in.)  |  |
| Weight  |                       |  |
| Weight with<br>packaging  | 17.70 kg (39.02 lb)   |  |
| Weight with stand assembly and cables   | 13.30 kg (29.32 lb)   |  |
| Weight without<br>stand assembly (For<br>wall mount or VESA<br>mount considerations<br>- no cables) | 8.61 kg (18.98 lb)    |  |
| Weight of stand<br>assembly   | 4.38 kg (9.66 lb)     |  |

# **Environmental characteristics**

| Compliant Standards                          |   |  |  |  |
|--|---|--|--|--|
| • RoHS Compliant.                            |   |  |  |  |
| • BFR/PVC Free monitor (exclud               | ing external cables).                       |  |  |  |
| • Meets NFPA 99 leakage curren               | t requirements.                             |  |  |  |
| • Arsenic-Free glass and Mercury             | -Free for the panel only.                   |  |  |  |
| Temperature                                  |   |  |  |  |
| Operating                                    | 0°C to 40°C (32°F to 104°F)                 |  |  |  |
| Non-operating                                | Non-operating –20°C to 60°C (–4°F to 140°F) |  |  |  |
| Humidity                                     |   |  |  |  |
| Operating 10% to 80% (non-condensing)        |   |  |  |  |
| Non-operating 5% to 90% (non-condensing)     |   |  |  |  |
| Altitude                                     |   |  |  |  |
| Operating                                    | 5,000 m (16,404 ft) (maximum)               |  |  |  |
| Non-operating 12,192 m (40,000 ft) (maximum) |   |  |  |  |
| Thermal dissipation                          | 1433.10 BTU/hour (maximum)                  |  |  |  |
|  | 232.37 BTU/hour (on mode)                   |  |  |  |



## Video Bandwidth

| Host                                      | Video Cable                          | Monitor 1<br>Resolution | Monitor 2<br>Resolution | USB Speed                        |
|---|--------------------------------------|-------------------------|-------------------------|----------------------------------|
| USB-C (Alt                                | Thunderbolt <sup>™</sup> 4           | 3840 x 2160             | Not                     | Support USB 2.0                  |
| Mode DP1.2)                               | Active Cable (40G)                   | @ 60Hz                  | supported               |                                  |
| USB-C (Alt                                | Thunderbolt <sup>™</sup> 4           | 6144 x 3456             | Not                     | Support USB 2.0                  |
| Mode DP1.4)                               | Active Cable (40G)                   | @ 30Hz                  | supported               |                                  |
| USB-C (Alt<br>Mode DP1.4,<br>DSC Enabled) | Thunderbolt™ 4<br>Active Cable (40G) | 6144 x 3456<br>@ 60Hz   | Not<br>supported        | Support USB 2.0                  |
| TBT3 (Alt                                 | Thunderbolt <sup>™</sup> 4           | 3840 x 2160             | Not                     | Support USB 2.0/                 |
| Mode DP1.2)                               | Active Cable (40G)                   | @ 60Hz                  | connected               | USB 3.0 Gen2                     |
|   |                                      | 3840 x 2160<br>@ 60Hz   | 3840 x 2160<br>@ 60Hz   | Support USB 2.0/<br>USB 3.0 Gen2 |
| TBT4 (Alt                                 | Thunderbolt <sup>™</sup> 4           | 6144 x 3456             | Not                     | Support USB 2.0/                 |
| Mode DP1.4                                | Active Cable (40G)                   | @ 60 Hz                 | connected               | USB 3.0 Gen2                     |
| DSC Enabled)                              |                                      | 6144 x 3456<br>@ 60 Hz  | 6144 x 3456<br>@ 60 Hz  | Support USB 2.0/<br>USB 3.0 Gen2 |

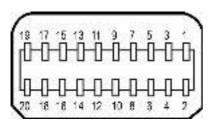
| Host                     | Video Cable                | Monitor 1<br>Resolution | Monitor 2<br>Resolution | USB Speed                        |
|--------------------------|----------------------------|-------------------------|-------------------------|----------------------------------|
| mDP 2.0 (DSC<br>Enable)  | mDP to mDP<br>(UHBR 13.5G) | 6144 x 3456<br>@ 60 Hz  | Not<br>supported        | Support USB 2.0/<br>USB 3.0 Gen2 |
|                          | mDP to DP (HBR3,<br>8.1G)  | 6144 x 3456<br>@ 60 Hz  | Not<br>supported        | (USB A - C cable connected)      |
| mDP 2.0 (DSC<br>Disable) | mDP to mDP<br>(UHBR 13.5G) | 6144 x 3456<br>@ 60 Hz  | Not<br>supported        |                                  |
|                          | mDP to DP (HBR3,<br>8.1G)  | 6144 x 3456<br>@ 30 Hz  | Not<br>supported        |                                  |
| DP 2.0                   | DP to mDP                  | 6144 x 3456<br>@ 60 Hz  | Not<br>supported        |                                  |
| HDMI 2.1                 | HDMI 2.1 cable             | 6144 x 3456<br>@ 60 Hz  | Not<br>supported        |                                  |
|                          | HDMI 2.0 cable             | 3840 x 2160<br>@ 60Hz   | Not<br>supported        | -                                |
| HDMI 2.0                 | HDMI 2.1 cable             | 3840 x 2160<br>@ 60Hz   | Not<br>supported        |                                  |
|                          | HDMI 2.0 cable             | 3840 x 2160<br>@ 60Hz   | Not<br>supported        |                                  |

**WNOTE:** Require to set Display setting to Second Screen only.

**WNOTE:** This table show that the max resolution which can reach.

# Pin assignments

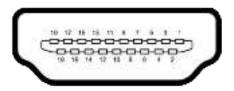
# Mini DP port



| Pin number | 20-pin side of the connected signal cable |
|------------|---|
| 1          | GND                                       |
| 2          | Hot Plug Detect                           |
| 3          | ML3 (n)                                   |
| 4          | CONFIG1                                   |
| 5          | ML3 (p)                                   |
| 6          | CONFIG2                                   |
| 7          | GND                                       |
| 8          | GND                                       |
| 9          | ML2 (n)                                   |
| 10         | MLO (p)                                   |
| 11         | ML2 (p)                                   |
| 12         | MLO (p)                                   |
| 13         | GND                                       |
| 14         | GND                                       |
| 15         | ML1 (n)                                   |
| 16         | AUX (p)                                   |
| 17         | ML1 (p)                                   |
| 18         | AUX (n)                                   |
| 19         | GND                                       |
| 20         | DP_PWR                                    |

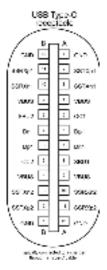
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# HDMI port



| Pin number | 19-pin side of the connected signal cable |  |
|------------|---|--|
| 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         | Reserved (N.C. on device)                 |  |
| 15         | DDC CLOCK (SCL)                           |  |
| 16         | DDC DATA (SDA)                            |  |
| 17         | DDC/CEC Ground                            |  |
| 18         | +5 V POWER                                |  |
| 19         | HOT PLUG DETECT                           |  |

# Thunderbolt<sup>™</sup> 4/USB Type-C port



| Pin | Signal | Pin | Signal |
|-----|--------|-----|--------|
| A1  | GND    | B12 | GND    |
| A2  | SSTXp1 | B11 | SSRXp1 |
| A3  | SSTXn1 | B10 | SSRXn1 |
| A4  | VBUS   | В9  | VBUS   |
| A5  | CC1    | B8  | SBU2   |
| A6  | Dp1    | B7  | Dn1    |
| A7  | Dn1    | B6  | Dp1    |
| A8  | SBU1   | B5  | CC2    |
| A9  | VBUS   | B4  | VBUS   |
| A10 | SSRXn2 | B3  | SSTXn2 |
| A11 | SSRXp2 | B2  | SSTXp2 |
| A12 | GND    | B1  | GND    |

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## **Universal Serial Bus (USB)**

This section gives you information about the USB ports available on your monitor.

NOTE: Up to 2 A on USB downstream port (port with the battery icon) with BC 1.2 compliance devices; up to 0.9 A on the other 4 USB downstream ports; Up to 3 A on USB-C downstream port (port with the icon) with 5 V/3 A compliance devices.

Your computer has the following USB ports:

- 2 upstream 1\*TBT + 1\*USB-C at rear.
- 8 downstream 2\*USB-C + 1\*USB-A at bottom, 1\*TBT + 4\*USB-A at rear.

Power Charging Port - the ports with • - 1 battery icon supports fast current charging capability if the device is BC 1.2 compatible. The USB Type-C downstream port with • - 1 icon supports fast current charging capability if the device is 5V/3A compatible.

NOTE: The monitor's USB ports work only when the monitor is on or in Standby Mode. On in Standby Mode, if the USB cable (A to C or C to C) is plugged in, the USB ports can work normally. Otherwise, follow the OSD setting of Other USB Charging, if the setting is "On in Standby Mode" then USB work normally, otherwise USB is disabled. If you turn off the monitor and then turn it on, the attached peripherals may take a few seconds to resume normal functionality.

| Transfer speed | Data rate | Maximum power consumption (each port) |
|----------------|-----------|---------------------------------------|
| Super speed+   | 10 Gbps   | 4.5 W                                 |
| Super speed    | 5 Gbps    | 4.5 W                                 |
| Hi-Speed       | 480 Mbps  | 2.5 W                                 |
| Full speed     | 12 Mbps   | 2.5 W                                 |

#### Super speed USB 10 Gbps (USB 3.2 Gen2) device



#### USB 3.2 Gen2 (10Gbps) downstream port (Bottom)

| I. | ģ. | ġ,   | b, | ķ, | 1 |
|----|----|------|----|----|---|
| ľ  | Û  | tuti | Π  | l  | 9 |

| Pin number | Signal name |
|------------|-------------|
| 1          | VBUS        |
| 2          | D-          |
| 3          | D+          |
| 4          | GND         |
| 5          | StdA_SSRX-  |
| 6          | StdA_SSRX+  |
| 7          | GND_DRAIN   |
| 8          | StdA_SSTX-  |
| 9          | StdA_SSTX+  |
| Shell      | Shield      |

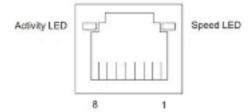
## USB 3.2 Gen2 (10Gbps) downstream port (Rear)



| Pin number | Signal name |
|------------|-------------|
| 1          | VBUS        |
| 2          | D-          |
| 3          | D+          |
| 4          | GND         |
| 5          | StdA_SSRX-  |
| 6          | StdA_SSRX+  |
| 7          | GND_DRAIN   |
| 8          | StdA_SSTX-  |
| 9          | StdA_SSTX+  |
| Shell      | Shield      |



# RJ45 Port (Connector Side)

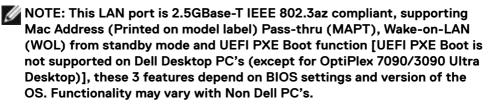


| Pin No. | 10BASE-T<br>100BASE-T | 1000BASE-T |
|---------|-----------------------|------------|
| 1       | Transmit+             | BI_DA+     |
| 2       | Transmit-             | BI_DA-     |
| 3       | Receive+              | BI_DB+     |
| 4       | Unused                | BI_DC+     |
| 5       | Unused                | BI_DC-     |
| 6       | Receive-              | BI_DB-     |
| 7       | Unused                | BI_DD+     |
| 8       | Unused                | BI_DD-     |

Driver installation

Install the Realtek USB GBE Ethernet Controller Driver available for your system. This is available for download at **https://www.dell.com/support** under the "Driver and download" section.

Network (RJ45) data rate via USB-C max speed is 2.5Gbps.





## RJ45 Connector LED status:



| LED       | Color          | Description   |
|-----------|----------------|---|
| Right LED | Amber or Green | Speed indicator:<br>• Amber On - 1000 Mbps/2.5 Gbps<br>• Green On - 100 Mbps<br>• Off - 10 Mbps   |
| Left LED  | Green          | Link / Activity indicator:<br>• Blinking - Activity on the port.<br>• Green On - Link is being established.<br>• Off - Link is not established. |

MOTE: RJ45 cable is not a standard in-box accessory.

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# Plug-and-Play capability

You can connect the monitor to any Plug and Play-compatible system. The monitor automatically provides the computer with its Extended Display Identification Data (EDID) using Display Data Channel (DOC) protocols so that the computer can configure itself and optimize the monitor settings. Most monitor installations are automatic; you can select different settings as required. For more information about changing the monitor settings, see **Operating the Monitor**.

# LCD monitor quality and pixel policy

During the LCD Monitor manufacturing process, it is not uncommon for one or more pixels to become fixed in an unchanging state which are hard to see and do not affect the display quality or usability. For more information on Dell Monitor Quality and Pixel Policy, see https://www.dell.com/pixelguidelines.



# Ergonomics

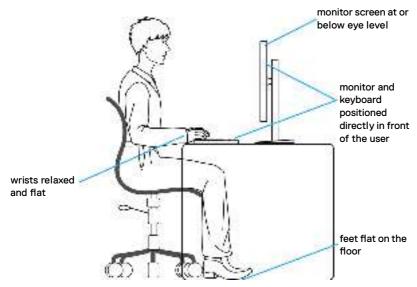
# △ CAUTION: Improper or prolonged usage of keyboard may result in injury. △ CAUTION: Viewing the monitor screen for extended periods of time may result in eye strain.

For comfort and efficiency, observe the following guidelines when setting up and using your computer workstation:

- Position your computer so that the monitor and keyboard are directly in front of you as you work. Special shelves are commercially available to help you correctly position your keyboard.
- To reduce the risk of eye strain and neck/arm/back/shoulder pain from using the monitor for long periods of time, we suggest you to:
  - 1. Set the distance of the screen between 20 to 28 in. (50 70 cm) from your eyes.
  - 2. Blink frequently to moisten your eyes or wet your eyes with water after prolonged usage of the monitor.
  - 3. Take regular and frequent breaks for 20 minutes every two hours.
  - 4. Look away from your monitor and gaze at a distant object at 20 feet away for at least 20 seconds during the breaks.
  - 5. Perform stretches to relieve tension in the neck, arm, back, and shoulders during the breaks.
- Make sure that the monitor screen is at eye level or slightly lower when you are sitting in front of the monitor.
- · Adjust the tilt of the monitor, its contrast, and brightness settings.
- Adjust the ambient lighting around you (such as overhead lights, desk lamps, and the curtains or blinds on nearby windows) to minimize reflections and glare on the monitor screen.
- Use a chair that provides good lower-back support.
- Keep your forearms horizontal with your wrists in a neutral, comfortable position while using the keyboard or mouse.
- · Always leave space to rest your hands while using the keyboard or mouse.
- · Let your upper arms rest naturally on both sides.
- Ensure that your feet are resting flat on the floor.
- When sitting, make sure that the weight of your legs is on your feet and not on the front portion of your seat. Adjust your chair's height or use a footrest if necessary to maintain a proper posture.
- Vary your work activities. Try to organize your work so that you do not have to sit and work for extended periods of time. Try to stand or get up and walk around at regular intervals.

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• Keep the area under your desk clear of obstructions and cables or power cords that may interfere with comfortable seating or present a potential trip hazard.



# Handling and moving your display

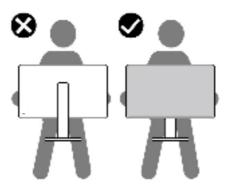
To ensure the monitor is handled safely when lifting or moving it, follow the guidelines mentioned below:

- · Before moving or lifting the monitor, turn off your computer and the monitor.
- · Disconnect all cables from the monitor.
- Place the monitor in the original box with the original packing materials.
- Hold the bottom edge and the side of the monitor firmly without applying excessive pressure when lifting or moving the monitor.

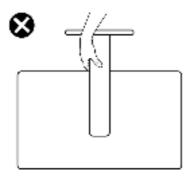


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• When lifting or moving the monitor, ensure the screen is facing away from you and do not press on the display area to avoid any scratches or damage.



- $\cdot$   $\,$  When transporting the monitor, avoid any sudden shock or vibration to it.
- When lifting or moving the monitor, do not turn the monitor upside down while holding the stand base or stand riser. This may result in accidental damage to the monitor or cause personal injury.



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### Maintenance guidelines

#### **Cleaning your monitor**



#### $\wedge$ CAUTION: Read and follow the Safety instructions before cleaning the monitor.

 $_{igwedge}$  WARNING: Before cleaning the monitor, unplug the monitor power cable from the electrical outlet.

For best practices, follow the instructions in the list below when unpacking, cleaning, or handling your monitor:

- Use a clean cloth that is slightly dampened with water to clean the stand assembly, the screen, and the chassis of your Dell monitor. If available, use a screen-cleaning tissue or solution suitable for cleaning Dell monitors.
- After cleaning the surface of the table, ensure that it is thoroughly dry and free from any moisture or cleaning agent before placing your Dell monitor on it.
- igtriangleq CAUTION: Do not use detergents or other chemicals such as benzene, thinner, ammonia, abrasive cleaners, alcohol, or compressed air.
- igtriangleq CAUTION: Using chemicals for cleaning may cause changes in the appearance of the monitor, such as color fading, milky film on the monitor, deformation, uneven dark shade, and peeling of screen area.
- M WARNING: Do not spray the cleaning solution or even water directly on the surface of the monitor. Doing so will allow liquids to accumulate at the bottom of the display panel and corrode the electronics resulting in permanent damage. Instead, apply the cleaning solution or water to a soft cloth and then clean the monitor.
- More: Monitor damages due to improper cleaning methods and the use of benzene, thinner, ammonia, abrasive cleaners, alcohol, compressed air, detergent of any kind will lead to a Customer Induced Damage (CID). CID is not covered under the standard Dell warranty.
  - If you notice white residual powder when you unpack your monitor, wipe it off with a cloth.
  - Handle your monitor with care as a darker-colored monitor may get scratched and show white scuff marks more than a lighter-colored monitor.
  - To help maintain the best image guality on your monitor, use a dynamically changing screen saver and turn off your monitor when not in use.



# Setting up the monitor

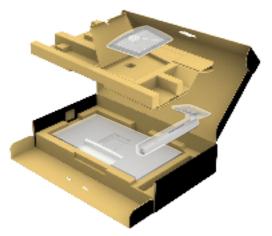
## Attaching the stand

NOTE: The stand is not installed at the factory when shipped.

NOTE: The following instructions are applicable only for the stand that was shipped with your monitor. If you are attaching a stand that you purchased from any other source, follow the setup instructions that were included with the stand.

#### To attach the monitor stand:

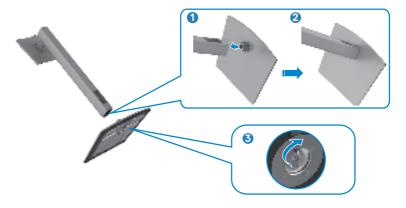
1. Open the front flap of the box to get the stand riser and stand base.



- 2. Align and place the stand riser on the stand base.
- **3.** Open the screw handle at the bottom of the stand base and turn it clockwise to secure the stand assembly.

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4. Close the screw handle.



**5.** Open the protective cover on the monitor to access the VESA slot on the monitor.



6. Slide the tabs on the stand riser into the slots on the display back cover and lower the stand assembly to snap it into place.



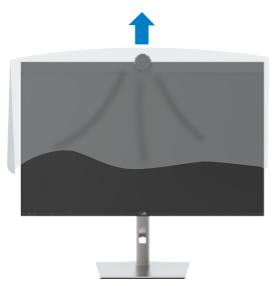
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7. Hold the stand riser and lift the monitor carefully, then place it on a flat surface.



NOTE: Hold the stand riser firmly when lifting the monitor to avoid any accidental damage.

8. Lift the protective cover from the monitor.





## Using the tilt, swivel, and vertical extension

NOTE: The following instructions are applicable only for the stand that was shipped with your monitor. If you are connecting a stand that you purchased from any other source, follow the set up instructions that were included with the stand.

#### Tilt, swivel, and vertical extension

With the stand attached to the monitor, you can tilt the monitor for the most comfortable viewing angle.



NOTE: The stand is detached when the monitor is shipped from the factory.



### **Rotating the Display**

Before you rotate the display, extend the display vertically until the top of the stand riser and then tilt the display backwards until the maximum to avoid hitting the bottom edge of the display.



- NOTE: To toggle the display setting on your Dell computer between landscape and portrait when rotating the display, download and install the latest graphics driver. To download, go to https://www.dell.com/support/ drivers and search for the appropriate driver.
- NOTE: When the display is in portrait mode, you may experience performance degradation when using graphic-intensive applications such as 3D gaming.

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### Organizing your cables



After attaching all necessary cables to your monitor and computer, (see **Connecting Your Monitor** for cable attachment) organize all cables as shown above.

If your cable is not able to reach your PC, you may connect directly to the PC without routing through the slot on the monitor stand.



### **Connecting your monitor**



 $_{A}$  WARNING: Before you begin any of the procedures in this section, follow the Safety Instructions.



NOTE: Dell monitors are designed to work optimally with the Dell supplied cables inside the box. Dell does not guarantee the video guality and performance if non-Dell cables are used.



MOTE: Route the cables through the cable-management slot before connecting them.

MOTE: Do not connect all the cables to the computer at the same time.

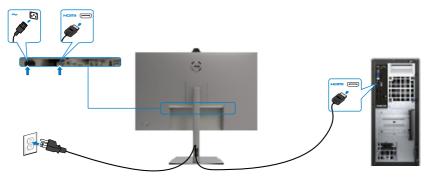
🜠 NOTE: The images are for the purpose of illustration only. The appearance of the computer may vary.

#### To connect your monitor to the computer:

- **1.** Turn off your computer.
- 2. Connect the Mini DisplayPort or USB cable, and the Thunderbolt<sup>™</sup> 4 cable from vour monitor to the computer.
- **3.** Turn on your monitor.
- 4. Select the correct input source from the OSD Menu on your monitor and then turn on your computer.

MOTE: U3224KBA default setting is DisplayPort 2.0. A DisplayPort 1.4 Graphic card may not display normally. Please refer to product specific problems – No image when using DP connection to the PC to change default setting.

### Connecting the HDMI cable (Optional)



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#### Switch to lower / higher primary resolution

- 1. Press the joystick button to launch the OSD main menu.
- 2. Move the joystick to select input source.



**3.** Move the joystick up or down to select **HDMI**, press and hold the joystick 8 Sec, the following message will appear:



- **4.** Select **Yes** to switch from HDMI 2.14 block EDID and max resolution is 6k to HDMI 2.12 block and max resolution is 4k (or select No to cancel this operation).
- **5.** Repeat steps 3 and 4 again to switch from HDMI 2.1 2 block and max resolution is 4k to HDMI2.1 4 block EDID and max resolution is 6k.

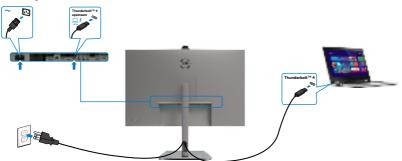
| Switch to higher primary resolution fo | r HDMI? |
|--|---------|
| Yes                                    |         |
| No                                     |         |
|  | ୦୦୦     |



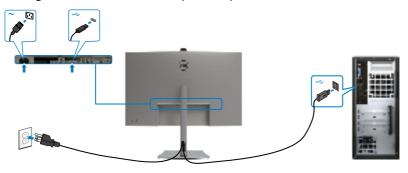
### Connecting the mDP cable



### Connecting the Thunderbolt<sup>™</sup> 4 cable

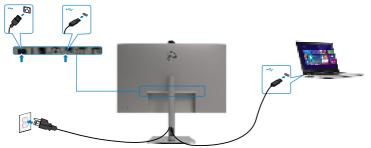


### Connecting the USB-C Cable (A to C)



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Connecting the USB Type-C cable (C to C) (Optional)



NOTE: This connection only data is available and no video. Need another video connection for display.



NOTE: Regardless of the power requirement/actual power consumption of your laptop, or the remaining power runtime in your battery, the Dell monitor is designed to supply power delivery of up to 140 W to your laptop.

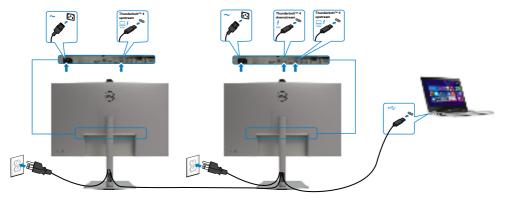
| Rated power (on laptops that have USB<br>Type-C with Power Delivery) | Maximum charging power |
|--|------------------------|
| 45 W   | 45 W                   |
| 90 W   | 90 W                   |
| 140 W  | *140 W                 |

\*Need laptops support EPR 140W charging.

WARNING: The Dell UltraSharp 32 6K Monitor-U3224KBA supports USB Type-C Power Delivery 3.1 (Thunderbolt<sup>™</sup>4) specification and can provide a maximum output of up to 140 W. For safety consideration, this USB Type-C port must be connected to the Dell-approved products with the inbox USB Type-C cable. For the list of Dell-approved products, refer Dell products compatible with USB Type-C Power Delivery 3.1 (Extended Power Range 140W) Tech sheet at Dell.com/support/U3224KBA.

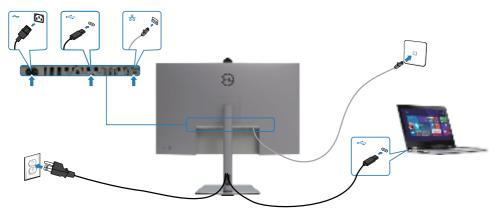
DG

Connecting the monitor for Thunderbolt<sup>™</sup> 4 daisy chain function

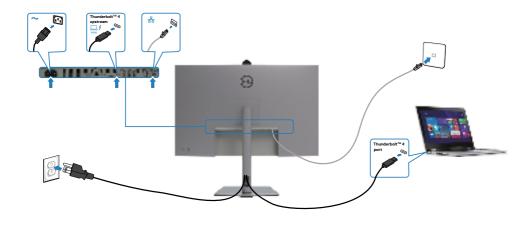


NOTE: The maximum number of supported via daisy chain is subjected to the bandwidth of the Thunderbolt<sup>™</sup> 4. Please refer to "product specific problems –No image when using Thunderbolt<sup>™</sup> 4 daisy chain".

#### Connecting the monitor for RJ45 Cable (Optional)

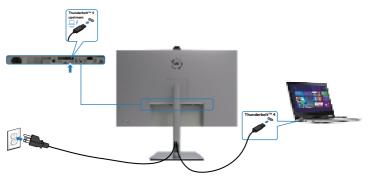


DELL



### Dell Power Button Sync (DPBS)

Your monitor is designed with Dell Power Button Sync (DPBS) feature to allow you to control PC system power state from the monitor power button. This feature is only supported with Dell platform which has built-in DPBS function, and is only supported over Thunderbolt<sup>™</sup> 4 interface.



To make sure the DPBS function works for the first time, perform the following steps on the DPBS supported platform in the **Control Panel** first.

 $\cancel{M}$  NOTE: DPBS only supports the Thunderbolt<sup>TM</sup> 4 port.

1. Go to **Control Panel**.

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2. Select Hardware and Sound, followed by Power Options.





#### 3. Go to System Settings

| <ul> <li>a. a. a. [get formulation interfaces in the last interfaces in the second secon</li></ul>  | Off means the two and two periods and twoperiods and two periods and twoperiods and two periods  | Contraction of the |   |       | - N - N |
|--|--|--------------------|---|-------|---------|
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| the particular control of the second se  | the periods of the second  |                    | We all one of a factors for a factor being such all all and<br>an average statements. |       |         |
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|  |  |                    | (Dec.   |       |         |
|  |  |                    |   |       |         |

4. In the drop-down menu of **When I press the power button**, there are a few options for selection namely **Do nothing/Sleep/Hibernate/Shut down**, and you can select **Sleep/Hibernate/Shut down**.

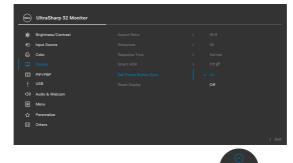
Surface Field

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|-----------------------------------|--|---|-----------------|---|
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|                                   | Image products the state of the state o                   |   |                 |   |
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|                                   | Concernence of the second seco |   |                 |   |
|                                   |  |   |                 |   |

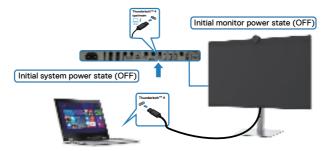
NOTE: Do not select Do nothing, otherwise monitor power button cannot sync with PC system power state.



5. Go to Monitor OSD Display, turn **On** from off in Dell Power Button Sync.



Connecting the monitor for DPBS for the first time



For the first time setting up the DPBS function, please follow below steps:

- 1. Make sure both the PC and monitor is OFF.
- 2. Connect the Thunderbolt<sup>™</sup> 4 cable from the PC to the monitor.
- **3.** Press the monitor power button to turn ON the monitor.
- **4.** Both the monitor and PC will turn ON normally. If not, press either the monitor power button or PC power button to boot up the system.
- 5. When you connect the Dell OptiPlex 7090/3090 Ultra platform, you may see both the monitor and PC will turn ON momentarily. Wait for a while (approximately 6 seconds) and both the PC and monitor will turn OFF. When you press either the monitor power button or PC power button, both the PC and monitor will turn ON.

The PC system power state is in sync with the monitor power button.

- NOTE: When the monitor and PC are both at power OFF state at first time, it is recommended that you turn ON the monitor first, then connect the Thunderbolt<sup>™</sup> 4 cable from the PC to the monitor.
- NOTE: You can power the Dell PC\* Ultra platform using its DC adaptor jack. Alternatively, you can power the Dell PC\* Ultra platform using the

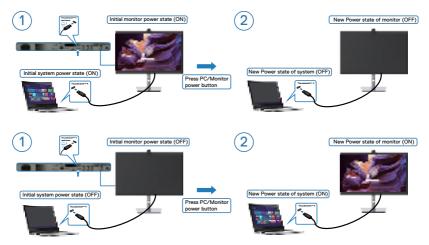


# monitor's Thunderbolt<sup>™</sup> 4 cable via Power Delivery (PD); please set Thunderbolt<sup>™</sup> 4 Charging to On in Off Mode.

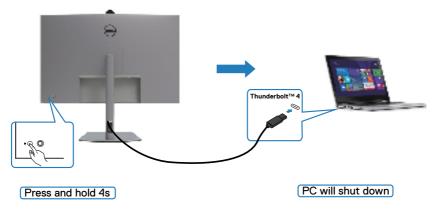
\* Ensure to check the Dell PC for DBPS supportability.

#### Using DPBS function

When you press the monitor power button or PC power button, the Monitor / PC state is as follows:



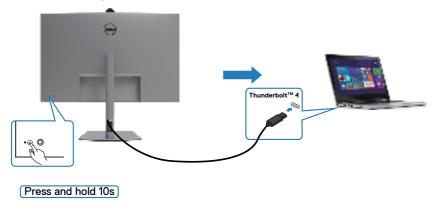
When the monitor and PC power state are both ON, while you **press and hold 4 seconds on monitor power button**, the screen prompt will ask if you would like to shut down the PC.



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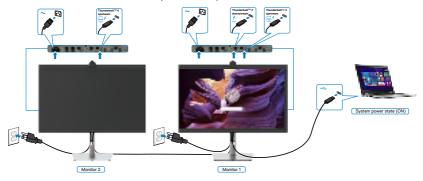
When the monitor and PC power state are both ON, while **you press and hold 10 seconds on monitor power button**, the PC will shut down.



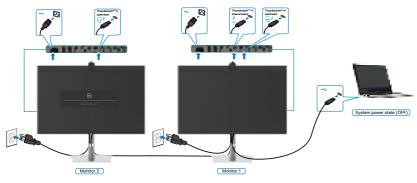


#### Connecting the monitor for Thunderbolt<sup>™</sup> daisy chain function

A PC is connected to two monitors in an initially OFF power state, and the PC system power state is in sync with Monitor 1 power button. When you press the Monitor 1 or PC power button, both the Monitor 1 and PC turns ON. Meanwhile the Monitor 2 will remain OFF. You need to manually press the power button on Monitor 2 to turn it ON.



Similarly, a PC is connected to two monitors in an initially ON power state, and the PC system power state is in sync with Monitor 1 power button. When you press the Monitor 1 or PC power button, both the Monitor 1 and PC turns OFF. Meanwhile the Monitor 2 will be in Standby mode. You need to manually press the power button on Monitor 2 to turn it OFF.



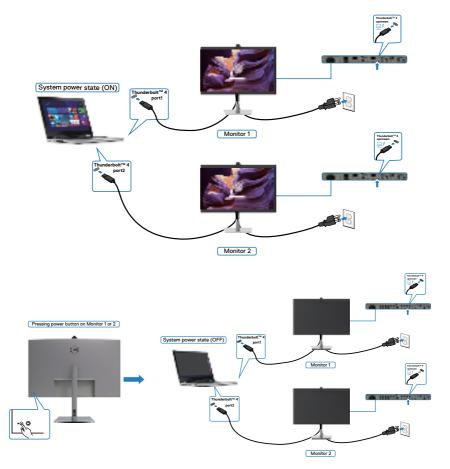
DEL

#### Connecting the monitor for Thunderbolt<sup>™</sup>4

The Dell PC\* Ultra platform has two Thunderbolt<sup>TM</sup> 4 ports, so both Monitor 1 and Monitor 2 power state can sync with the PC.

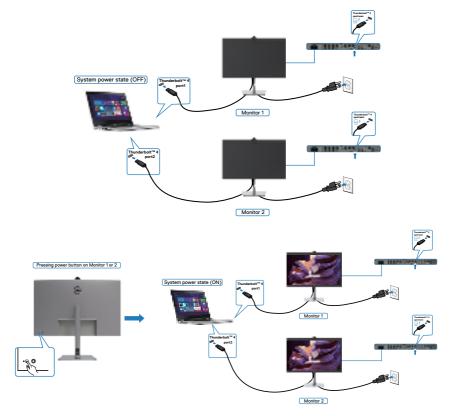
While the PC and two monitors are in an initially ON power state, by pressing the power button on Monitor 1 or Monitor 2 will turn OFF the PC, Monitor 1, and Monitor 2. \* Ensure to check the Dell PC for DBPS supportability.

#### **W** NOTE: DPBS only supports the Thunderbolt<sup>™</sup> 4 port.



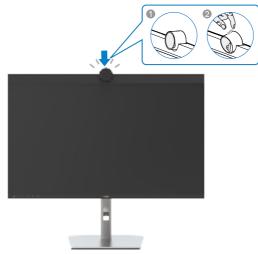
Dell

Make sure to set **Thunderbolt™ 4** to On in Off Mode. While the PC and two monitors are in an initially OFF power state, by pressing the power button on Monitor 1 or Monitor 2 will turn ON the PC, Monitor1, and Monitor 2.



DELL

### Operating the monitor webcam



#### The webcam offers the following:

- 0-20 degree tilt adjustability
- 4K video at 30 fps and Full HD video at 60 fps
- · Al Auto-framing
- 5x digital zoom
- · Adjustable field-of-view with autofocus
- · High Dynamic Range (HDR) and video noise reduction support
- Walk Away Lock and Wake on Approach support
- Windows Hello support
- · Additional customization using Dell Peripheral Manager

#### Auto-framing (Single user framing):

- If the user is within 2 meters of the webcam, the webcam will enable the Autoframing.
- Feature and adjust the frame to focus on the user. You can enable Auto-framing to ensure the camera always keeps you in the center of the frame.

#### HDR and Video Noise Reduction:

 The webcam's Digital Overlap HDR guarantees superior picture quality in extreme lighting environments, while video noise reduction automatically eliminates grainy images in low light.



#### **Dell Peripheral Manager**

#### What is Dell Peripheral Manager?

The Dell Peripheral Manager application helps you manage and set up various Dell Peripherals connected to your computer. It allows the user to make changes to webcam settings of the device and provides additional customization.

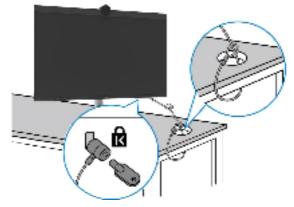
For more details on the application and the customizations available for the Dell U3224KBA, find the User's Guide for Dell Peripheral Manager at

www.dell.com/support.

# Securing your monitor using Kensington lock (optional)

The security lock slot is located at the bottom of the monitor. (See **Security lock slot**). Secure your monitor to a table using the Kensington security lock.

For more information on using the Kensington lock (purchased separately), see the documentation that is shipped with the lock.



**NOTE:** The image is for the purpose of illustration only. Appearance of the lock may vary.



### Removing the monitor stand

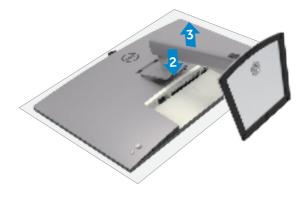
NOTE: To prevent scratches on the LCD screen when removing the stand, ensure that the monitor is placed on a soft surface and handle it carefully.

NOTE: The following steps are specifically for removing the stand that is shipped with your monitor. If you are removing a stand that you purchased from any other source, follow the setup instructions that are included with the stand.

#### To remove the stand:

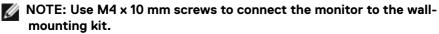
**CAUTION:** Place the monitor screen on the desktop. Take note that the webcam is slightly protruded out of the monitor screen, please protect the webcam surface to prevent wear by the desktop.

- **1.** Place the monitor on a soft cloth or cushion.
- 2. Press and hold the stand-release button.
- 3. Lift the stand up and away from the monitor.



## Wall mounting (Optional)





Refer to the instructions that come with the VESA-compatible wall mounting kit.

- **1.** Place the monitor on a soft cloth or cushion on a stable flat table.
- 2. Remove the stand.
- **3.** Use a Phillips crosshead screwdriver to remove the four screws securing the plastic cover.
- 4. Attach the mounting bracket from the wall mounting kit to the monitor.
- **5.** Mount the monitor on the wall as instructed in the documentation that shipped with the wall-mounting kit.
- NOTE: For use only with UL or CSA or GS-listed wall mount bracket with minimum weight/load bearing capacity of 34.4 kg (75.92 lb).



# Operating the monitor

### Power on the monitor

Press the monitor.



## Using the joystick control



To modify the OSD adjustments using the joystick control on the rear end of the monitor, do the following:

- 1. Press the joystick to open the OSD Menu Launcher.
- 2. Move the joystick up/down/left/right to toggle between the OSD menu options.

#### **Joystick Functions**

#### Joystick Description



Press joystick to open the OSD Menu Launcher.



For right and left navigation.



For up and down navigation.



# Using the rear-panel controls

Press the Joystick to open the OSD Menu Launcher.



Menu Launcher

- Toggle the Joystick **Up** to open the **Main Menu**.
- Toggle the Joystick Left or Right to select the desired Shortcut Keys.
- Toggle the Joystick **Down** to **Exit**.

#### Menu Launcher Details

The following table describes the Menu Launcher icons:

| Options                              | Description  |
|--------------------------------------|--|
|                                      | Use this <b>Menu</b> button to launch the on-screen display (OSD) and select the OSD menu. |
| Shortcut key:<br>Menu                |  |
| ۲                                    | Use this button to choose from a list of <b>preset</b> color modes.                        |
| Shortcut key:<br>Preset Modes        |  |
| *                                    | To directly access the <b>Brightness/Contrast</b> adjustment sliders.                      |
| Shortcut key:<br>Brightness/Contrast |  |
|                                      | Use this button to choose from a list of <b>Display</b> Info.                              |
| Shortcut key:<br>Display Info        |  |
| (L)                                  | Use this button to adjust the volume of the built-in speakers.                             |
| Shortcut key:<br>Volume              |  |



| Options                       | Description   |
|-------------------------------|---|
| ۲                             | Use this button to choose from a list of <b>Input</b><br><b>Source</b> .      |
| Shortcut key: Input<br>Source |   |
|                               | Use this button to choose from a list of <b>Aspect Ratio</b> .                |
| Shortcut key:<br>Aspect Ratio |   |
| Exit                          | Use this button to go back to the main menu or <b>exit</b> the OSD main menu. |

#### Front-panel button

Use the buttons on the front of the monitor to adjust the image settings.



| Fron | it Panel         | Description  |
|------|------------------|--|
| 1    | $\odot$          | Use the <b>Up</b> (increase) and <b>Down</b> (decrease) buttons to adjust items in the OSD menu. |
|      | Up Down          |  |
| 2    | $\odot$          | Use the <b>Previous</b> button to go back to the previous menu.                                  |
|      | Previous         |  |
| 3    | Next             | Use the <b>Next</b> button to confirm your selection.  |
| 4    | <b>V</b><br>Tick | Use the <b>Tick</b> button to confirm your selection.  |
| DELL | )                |  |

68 | Operating the monitor

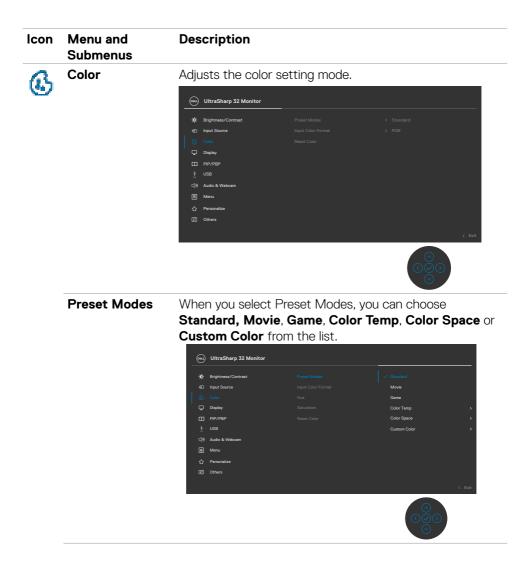
# Using the Main Menu

| lcon | Menu and<br>Submenus    | Description   |
|------|-------------------------|---|
| Ø.   | Brightness/<br>Contrast | Use this menu to activate Brightness/Contrast adjustment.   |
|      |                         | . (nu) UltraSharp 32 Monitor  |
|      |                         | Implement Contract       Implement Contract         Implement Con |
|      | Brightness              | Adjusts the luminance of the backlight (Range: 0 - 100).  |
|      | -                       | Move the Joystick <b>Up</b> to increase brightness.   |
|      |                         | Move the Joystick <b>Down</b> to decrease brightness.   |
|      | Contrast                | Adjust the <b>Brightness</b> first, and then adjust <b>Contrast</b> only if further adjustment is necessary.  |
|      |                         | Move the Joystick <b>Up</b> to increase contrast and Move the Joystick <b>Down</b> to decrease contrast (Range: 0 - 100).   |
|      |                         | The <b>Contrast</b> function adjusts the degree of difference between darkness and lightness on the monitor screen.   |

| lcon | Menu and<br>Submenus | Description  |                       |  |
|------|----------------------|--|-----------------------|--|
| Ð    | Input Source         | Use the <b>Input So</b><br>video inputs that a   |                       | elect between differen<br>o your monitor.                |
|      |                      | WW UltraSharp 32 Monitor   |                       |  |
|      |                      | <ul> <li>Brightness/Contrast</li> <li>Brgut Source</li> <li>Color</li> <li>Display</li> <li>Pis/PBP</li> <li>USB</li> <li>Audio &amp; Webcam</li> <li>Menu</li> <li>Area</li> <li>Personalize</li> </ul> |                       | On     Prompt for Multiple inputs     Thunderbolt (140W) |
|      |                      | Chers  |                       | < Ext  |
|      | Thunderbolt          | Select Thunderbo   | <b>olt (140W)</b> inp | ut when you are using                                    |

| Thunderbolt<br>(140W) | Select <b>Thunderbolt (140W)</b> input when you are using<br>the <b>Thunderbolt (140W)</b> connector. Press the joystick<br>button to confirm the selection. |
|-----------------------|--|
| mDP                   | Select <b>mDP</b> input when you are using the <b>mDP (Mini</b><br><b>DisplayPort)</b> connector. Press the joystick button to<br>confirm the selection.     |
| HDMI                  | Select the <b>HDMI</b> input when you are using the HDMI connector. Press the joystick button to confirm the selection.                                      |
| Auto Select           | Allows you to scan for available input sources.<br>Press 🗭 to select this function.  |
| Auto Select for       | Press 🗭 to select these functions:   |
| Thunderbolt           | • <b>Prompt for Multiple Inputs:</b> always show Switch to Thunderbolt Video Input message for user to choose whether to switch or not.                      |
|                       | • Yes: The monitor always switches to Thunderbolt video by default while Thunderbolt is connected.   |
|                       | • No: The monitor will NOT auto switch to Thunderbolt video from another available input.  |
| Rename Inputs         | Allows you to <b>Rename Inputs</b> .   |
| Reset Input<br>Source | Resets all settings under the <b>Input Source</b> menu to the factory defaults. Press 🗭 to select this function.   |

Dell



Operating the monitor | 71

DELL

| I | Menu and<br>Submenus | Description   |  |
|---|----------------------|---|--|
|   |                      | <ul> <li>Standard: Default Color setting. This monitor uses a low blue light panel, and is certified by TUV to reduce blue light output and create a more relaxing and less stimulating image while reading content on the screen.</li> <li>Movie: Ideal for movies.</li> <li>Game: Ideal for most gaming applications.</li> <li>Color Temp: The screen appears warmer with a red/yellow tint with slider set at 5,000K or cooler with blue tint with slider set at 10,000K.</li> <li>Color Space: Allows users to select the color space: sRGB, Rec. 709, DCI-P3, Display P3.</li> <li>Custom Color: Allows you to manually adjust the color settings. Press the joystick left and right buttons to adjust the Red, Green, and Blue values and create your own preset color mode.</li> </ul>   |  |
|   | Input Color          | Allows you to set the video input mode to:  |  |
|   | Format               | • <b>RGB:</b> Select this option if your monitor is connected to a computer or a media player that supports RGB output.   |  |
|   |                      | •YCbCr: Select this option if your media player supports only YCbCr output.          Image: Contrast       Image: Con |  |
|   | Hue                  | Use Joystick <b>Up</b> or <b>Down</b> to adjust the <b>Hue</b> from 0 to 100.   |  |
|   |                      | <b>NOTE:</b> Hue adjustment is available only for <b>Movie</b> and <b>Game</b> mode.  |  |

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| lcon | Menu and<br>Submenus | Description  |
|------|----------------------|--|
|      | Saturation           | Use Joystick <b>Up</b> or <b>Down</b> to adjust the <b>Saturation</b> from 0 to 100.   |
|      |                      | <b>NOTE:</b> Saturation adjustment is available only for <b>Movie</b> and <b>Game</b> mode.  |
|      | Reset Color          | Resets your monitor's color settings to the factory defaults.  |
|      |                      | Press ਓ to select this function.   |
|      | Display              | Use the <b>Display</b> menu to adjust image.   |
| Ŧ    |                      | WitraSharp 32 Monitor         **       Brightness/Contrast       Agent Ratio       >       16.9         **       Input Source       Divergress       >       50         **       Input Source       Divergress       >       50         **       Depring       Divergress       >       50         **       Depring       Divergress       >       000 ml         **       Depring       Divergress       >       000 ml         **       USB       React Depring       000 ml         **       Audo & Wobcam            **       Personalize         Others |
|      | Aspect Ratio         | Adjust the image ratio to 16:9, Auto Resize, 4:3, 1:1.   |
|      |                      | - · · · · · · · · · · · · · · · · · · ·  |

|                      | Fast.  |
|----------------------|--|
| <b>Response Time</b> | Allows you to set the <b>Response Time</b> to <b>Normal</b> or           |
|                      | Move the joystick up and down to adjust the sharpness from 'O' to '100'. |
| Sharpness            | Makes the image look sharper or softer.                                  |
| Aspect Natio         |  |

| lcon | Menu and<br>Submenus      | Description   |
|------|---------------------------|---|
|      | Smart HDR                 | Press 🖓 to select these functions.  |
|      |                           | <b>Smart HDR (High Dynamic Range)</b> automatically<br>enhances the display output by adjusting the settings<br>optimally to resemble life-like visuals.  |
|      |                           | <b>Desktop:</b> This is the default mode. This mode is more suitable for general usage of the monitor with a desktop computer.  |
|      |                           | <b>Movie HDR:</b> Use this mode during playback of HDR video content to expand the contrast ratio, brightness, and color palette. It matches the video quality with real life visuals.                    |
|      |                           | <b>Game HDR:</b> Use this mode when playing games that support HDR to expand the contrast ratio, brightness, and color palette. It makes gaming experience more realistic as intended by game developers. |
|      |                           | <b>DisplayHDR:</b> Best used with content that complies with DisplayHDR standards.  |
|      |                           | Off: Disables Smart HDR function.   |
|      |                           | <b>NOTE:</b> The possible peak luminance during HDR mode<br>is 600-nits (typical). The actual value and duration<br>during HDR playback might vary accordingly to the video<br>content.                   |
|      | Dell Power<br>Button Sync | To allow you to control PC system power state from the monitor power button.  |
|      |                           | Allows you to On or Off <b>Dell Power Button Sync</b> function.   |
|      |                           | <b>NOTE:</b> This feature is only supported with Dell platform which has built-in DPBS function, and is only supported over Thunderbolt interface.  |
|      | Reset Display             | Resets all settings under the <b>Display</b> menu to the factory defaults.  |
|      |                           | Press ਓ to select this function.  |
|      |                           |   |

| lcon | Menu and<br>Submenus | Description           |   |  |    |  |  |
|------|----------------------|-----------------------|---|--|----|--|--|
|      | PIP/PBP              |                       | his function brings up a window displaying nother input source. |  |    |  |  |
|      |                      | UltraSharp 32 Monitor |   |  |    |  |  |
|      |                      | : Brightness/Contrast |   |  |    |  |  |
|      |                      | Input Source          |   |  |    |  |  |
|      |                      | 🚯 Color               |   |  |    |  |  |
|      |                      | Display               |   |  |    |  |  |
|      |                      | П РІР/РВР             |   |  |    |  |  |
|      |                      | Э usв                 |   |  |    |  |  |
|      |                      | <]≬ Audio & Webcam    |   |  |    |  |  |
|      |                      | E Menu                |   |  |    |  |  |
|      |                      | රු Personalize        |   |  |    |  |  |
|      |                      | 11 Others             |   |  |    |  |  |
|      |                      |                       |   |  | at |  |  |
|      |                      |                       |   |  |    |  |  |
|      |                      |                       |   |  |    |  |  |
|      |                      | Main Window           | Sub-Window  |  |    |  |  |

**NOTE:** The images under PBP will be displayed at the center of the screen, not full screen.

Thunderbolt mDP

V

V

(140W)

V

V

Thunderbolt

(140W) mDP

HDMI

HDMI

V

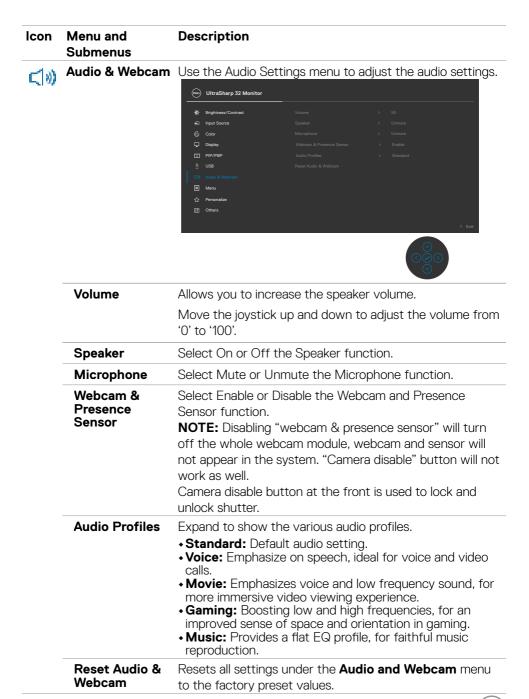
V

Deli

| lcon | Menu and<br>Submenus | Description                              | Description |  |  |
|------|----------------------|--|-------------|--|--|
|      | PIP/PBP Mode         | Adjusts the PIP or<br>You can disable th |             | cture by Picture) mode.<br>by selecting Off. |  |
|      |                      | 🔍 UltraSharp 32 Monitor                  |             |  |  |
|      |                      | :0: Brightness/Contrast                  |             |  |  |
|      |                      | Input Source                             |             |  |  |
|      |                      | 🚯 Color 🖵 Display                        |             |  |  |
|      |                      |  |             |  |  |
|      |                      | )<br>) USB                               |             |  |  |
|      |                      | 디아 Audio & Webcam                        |             |  |  |
|      |                      | ■ Menu<br>公 Personalize                  |             |  |  |
|      |                      | ☆ Personalize<br>頭 Others                |             |  |  |
|      |                      |  |             | Exit   |  |
|      |                      |  |             |  |  |
|      |                      |  | PE          | 3P   |  |
|      |                      |  | 1           |  |  |
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|      |                      |  |             |  |  |
|      |                      |  |             |  |  |
|      |                      | h  |             |  |  |

| lcon                                 | Menu and<br>Submenus | Description  |
|--------------------------------------|----------------------|--|
| connected to your monitor for the PE |                      | Select between the different video signals that may be<br>connected to your monitor for the PBP sub-window.<br>Press the 🗭 button to select the PBP sub-window source<br>signal. |
|                                      |                      | (m) UltraSharp 32 Monitor  |
|                                      |                      |  |
|                                      | USB Switch           | Select to switch between the USB upstream sources<br>in PBP mode. Move the joystick to switch among USB<br>upstream sources in PBP mode.   |
|                                      | Video Swap           | Select to swap videos between main window and sub-<br>window in PBP mode. Move the joystick to swap main<br>window and sub-window.   |
|                                      | Audio                | Allows you to set the audio source from the main window or the sub-window.   |
|                                      | Contrast (Sub)       | Adjust the <b>Contrast</b> level of the picture in PBP Mode.   |
|                                      |                      | Move the Joystick to increase or decrease the contrast.  |

| lcon | Menu and<br>Submenus    | Description   |  |  |  |  |
|------|-------------------------|---|--|--|--|--|
| ٥    | USB                     | Allows you to set the USB upstream port for the mDP input signals, thus the monitor's USB downstream port (For example, keyboard and mouse) can be used by the current input signals when you connect a computer to either one of the upstream ports. When you use only one upstream port, the connected upstream port is active. |  |  |  |  |
|      |                         | NOTE: To prevent data damage or loss, before changing USB upstream ports, make sure that NO USB storage devices are in use by the computer connected to the monitor's USB upstream port.  |  |  |  |  |
|      | Ethernet<br>Switch Mode | devices are in use by the computer connected to the   |  |  |  |  |
|      |                         | <ul> <li>switch Ethernet together.</li> <li>Switch Manually: When KVM USB switches, Ethernet does not switch.</li> </ul>  |  |  |  |  |
|      | Ethernet<br>Switch      | Manually switch Ethernet.   |  |  |  |  |
|      | Show KVM<br>Setup Guide | Select this option and follow steps if you want to connect<br>multiple computers to the monitor and use one setup of<br>keyboard and mouse.   |  |  |  |  |
|      | Reset USB               | Resets all settings under the <b>USB</b> menu to the factory defaults.  |  |  |  |  |
| Dell |                         |   |  |  |  |  |



Dell

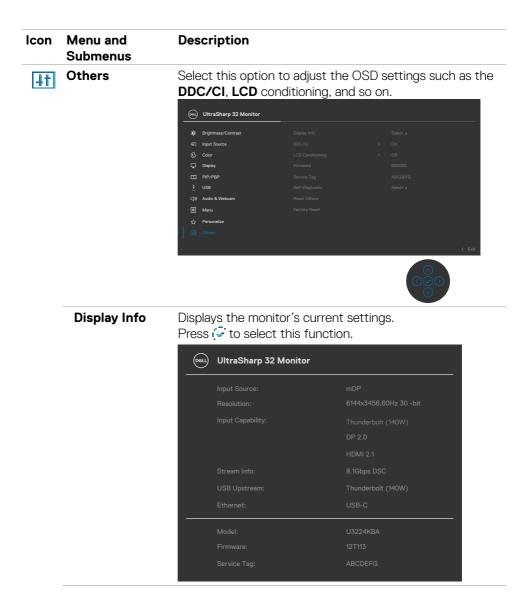
| lcon | Menu and<br>Submenus | Description  |  |
|------|----------------------|--|--|
| Ξ    | Menu                 | Select this option to adjust the settings of the OSD, such<br>as the languages of the OSD, the amount of time the<br>menu remains on screen, and so on.  |  |
|      |                      | 📖 UltraSharp 32 Monitor  |  |
|      |                      | **       Brightmess/Contrast       Language       > English         •       Mput Source       Transparancy       > 20         ©       Color       Time       > 20s         □       Pipolys       Lock       > Disable         □       Pip/Pspr       Rest: Monu         •       Usa       Usa         •       Usa & Webcam         □       Monu         •       Personalize         •       Others |  |
|      | Language             | Set the OSD display to one of eight languages.   |  |
|      |                      | (English, Spanish, French, German, Brazilian Portuguese,<br>Russian, Simplified Chinese, or Japanese).   |  |
|      | Transparency         | Select this option to change the menu transparency by moving the Joystick up or down (Range: 0 - 100).   |  |
|      | Timer                | <b>OSD Hold Time:</b> Sets the length of time the OSD remains active after you press a button.   |  |
|      |                      | Move the joystick to adjust the slider in 1-second increments, from 5 to 60 seconds.   |  |

| lcon         | Menu and<br>Submenus | Description   |                               |  |
|--------------|----------------------|---|-------------------------------|--|
|              | Lock                 | With the control butto<br>you can prevent peop<br>controls. It also preven<br>in multiple monitors si   | le from acce<br>nts accidenta | ssing the<br>al activation   |
|              |                      | (ww) UltraSharp 32 Monitor  |                               |  |
|              |                      | Brightness/Contrast La  |                               | Menu Buttons   |
|              |                      | CD PIP/PEP ™<br>Č USB<br>C)0 Audio & Webcam<br>C Monu<br>Č Personalize<br>C Otiers  |                               | Power Button<br>Manu + Power Buttons<br>& Distable   |
|              |                      |   |                               |  |
|              |                      | • Menu + Power But<br>and Power buttons.  | t <b>tons:</b> Throu          | lock the Power buttor<br>gh OSD to lock all Mer<br>and hold for 4 seconds  |
|              | Reset Menu           |   | -                             | <b>t Menu</b> to the factory   |
|              |                      | Press 礂 to select this  | s function.                   |  |
| ~            | Personalize          | () UltraSharp 32 Monitor  |                               |  |
| $\mathbf{M}$ |                      | Brightness/Contrast SH  |                               | > USB Switch   |
| น            |                      | E Input Source Si<br>Co Color Si<br>C Display Si  |                               | USB Switch     Input Source     Preset Modes     Brightness/Contrast     PropP Mode  |
| ਮ            |                      |   |                               | Input Source     Preaet Modes     Brightness/Contrast  |
| ы            |                      | Color Source So |                               | Input Source     Preset Modes     Brightness/Continuit     Phy/PBP Mode     On in On Mode     Of in of Mode g?     Of in Standby Mode g? |

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| lcon                              | Menu and<br>Submenus         | Description  |
|-----------------------------------|------------------------------|--|
|                                   | Shortcut key 1               | Select from Preset Modes, Brightness/Contrast,   |
|                                   | Shortcut key 2               |  |
|                                   | Shortcut key 3               | Switch, Ethernet Switch, Video Swap, Volume,   |
|                                   | Shortcut key 4               | Smart HDR, Display Info, Webcam & Presence Sensor, Speaker, Microphone, Audio Profiles set as  |
|                                   | Shortcut key 5 shortcut key. |  |
|                                   | Power Button<br>LED          | Allows you to set the state of the power light to save energy.   |
| Thunderbolt<br>Charging<br>(140W) |                              | Allows you to enable or disable <b>Thunderbolt Charging</b> (140W) charging function during monitor power off mode.  |
|                                   |                              | <b>NOTE:</b> When this function is enabled, you will be able to charge your notebook or mobile devices through the USB-C cable even when the monitor is powered Off. |
|                                   | Other USB<br>Charging        | Allows you to enable or disable <b>Other USB Charging</b> function during monitor Standby mode.  |
|                                   |                              | <b>NOTE:</b> When this function is enabled, you will be able to charge your mobile phone through the USB-A cable even when the monitor is in standby mode.           |
|                                   | Fast Wakeup                  | Speed up recovery time from sleep mode.  |
|                                   | Reset<br>Persona-            | Resets all settings under the <b>Personalize</b> to the factory defaults.  |
|                                   | lization                     | Press 🗭 to select this function.   |

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| lcon | Menu and<br>Submenus | Description   |   |   |   |
|------|----------------------|---|---|---|---|
|      | DDC/CI               | <b>DDC/CI</b> (Displate allows your more balance, etc.) to computer. You computer this feature performance of | itor parameters<br>be adjustable v<br>an disable this t<br>ure for best use | (brightness, co<br>via the software<br>feature by selec | olor<br>e on your<br>cting <b>Off</b> . |
|      |                      | (ભ્રે.) UltraSharp 32 Monitor   |   |   |   |
|      |                      |   |   |   |   |
|      |                      | 😥 Brightness/Contrast   |   |   |   |
|      |                      | Input Source  |   |   |   |
|      |                      | Color   |   |   |   |
|      |                      |   |   |   |   |
|      |                      | 🖵 Display   |   |   |   |
|      |                      | П РІР/РВР   |   |   |   |
|      |                      | ш Рірирар<br>ў USB  |   |   |   |
|      |                      | ඩ PIP/PBP<br>ලි USB<br>දෝ≬ Audio & Webcam   |   |   |   |
|      |                      | CII PR/PBP<br>j USB<br>C(0) Audio & Webcam<br>E Menu  |   |   |   |
|      |                      | CT pip/pgp<br>j USB<br><usb<br><u &="" audio="" webcam<br="">I Menu<br/>↓ Personalize</u></usb<br>            |   |   |   |
|      |                      | CII PR/PBP<br>j USB<br>C(0) Audio & Webcam<br>E Menu  |   |   |   |



| lcon | Menu and<br>Submenus | Description   |
|------|----------------------|---|
|      | LCD<br>Conditioning  | Helps reduce minor cases of image retention. Depending<br>on the degree of image retention, the program may take<br>some time to run. You can enable this feature by selecting<br><b>On</b> .   |
|      |                      | 🗠 UltraSharp 32 Monitor   |
|      |                      | Implementation     Display Info       Imput Source     DOC/CI       Imput Source     DOC/CI       Imput Source     DOC/CI       Implementation     Implementation       I |
|      | Firmware             | Displays the <b>Firmware</b> version of your monitor.   |
|      | Service Tag          | Displays the <b>Service Tag</b> . The Service Tag is a unique alphanumeric identifier that allows Dell to identify the product specifications and access warranty information.  |
|      |                      | <b>NOTE:</b> The Service Tag is also printed on a label located at the back of the cover.   |
|      | Self-Diagnostic      | Use this option to run the built-in diagnostics, see <b>Built-in Diagnostics</b> .  |
|      | Reset Others         | Resets all settings under the <b>Others</b> menu to the factory defaults.   |
|      |                      | Press 🔄 to select this function.  |
|      | Factory Reset        | Restores all preset values to the factory default settings.   |

### Using the OSD lock function

You can lock the front-panel control buttons to prevent access to the OSD menu and/ or power button.

### Use the Lock menu to lock the button(s).

**1.** Select one of the following options.

|     | UltraSharp 32 Monitor |  |  |
|-----|-----------------------|--|--|
| ÷ó÷ | Brightness/Contrast   |  |  |
| -   |                       |  |  |
| €   |                       |  |  |
| 6   |                       |  |  |
| Ģ   | Display               |  |  |
|     |                       |  |  |
| Ċ   |                       |  |  |
| ⊲0  | Audio & Webcam        |  |  |
|     |                       |  |  |
| 습   | Personalize           |  |  |
| EÐ  |                       |  |  |
|     |                       |  |  |

2. The following message appears.

| i sure you want to lock the Menu Buttons?<br>ock the Button, refer to the User's Guide. |
|---|
|   |
|   |

**3.** Select **Yes** to lock buttons. Once locked, pressing any control button will display the lock icon .



#### Use the Joystick to lock the button(s).

Press the left directional navigation of Joystick for four seconds, a menu appears on the screen.



Select one of the following options:

| Options             | Description  |
|---------------------|--|
| 1                   | Select this option to lock OSD menu function.  |
| Menu Button loc     | :k   |
| 2                   | Use this option to lock power button. This will prevent the user to turn off the monitor using the power button. |
| Power Button loo    | ck i i i i i i i i i i i i i i i i i i i   |
| 3                   | Use this option to lock OSD menu and power button to turn off the monitor.                                       |
| Menu and Power Butt | on lock  |

DELL

### To unlock the button(s).

Press the left directional navigation of Joystick for four seconds until a menu appears on the screen. The following table describes the options to unlock the front-panel control buttons.



| Options |                                 | Description  |  |
|---------|---------------------------------|--|--|
| 1       | Ē                               | Use this option to unlock OSD menu function.                                 |  |
|         | Menu Button unlock              |  |  |
| 2       | Ē                               | Use this option to unlock power button to turn off the monitor.              |  |
|         | Power Button unlock             |  |  |
| 3       | Ē                               | Use this option to unlock OSD menu and power button to turn off the monitor. |  |
|         | Menu and Power Button<br>unlock |  |  |



### **Initial Setup**

When you select OSD items of **Factory Reset** in Other feature, the following message will appear:



When you select **Yes** to reset to default settings, the following message will appear:

| OEL 32 Monitor |
|----------------|
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|                |
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#### **OSD** warning messages

When the monitor does not support a particular resolution mode, you can see the following message:



This means that the monitor cannot synchronize with the signal that it is receiving from the computer. See **Monitor Specifications** for the Horizontal and Vertical frequency ranges addressable by this monitor. Recommended mode is **6144 × 3456**. You can see the following message before the DDC/CI function is disabled:



When the monitor enters the Standby Mode, the following message will appear:



Activate the computer and wake up the monitor to gain access to the OSD.

If you press any button other than the power button, the following messages will appear depending on the selected input:





A message is displayed while the cable supporting DP alternate mode is connected to the monitor under the following conditions:

- When Auto Select for Thunderbolt(140W) is set to Prompt for Multiple Inputs.
- When the Thunderbolt<sup>™</sup> cable is connected to the monitor.



If two or more ports are connected, when the **Auto** of Input Source is selected, it will turn to the next port with signal.



Select OSD items of **On in Standby Mode** in Personalize feature, the following message will appear:



If adjust the Brightness level above the default level over 75%, the following message will appear:

- When user selects "Yes", the power message is displayed only once.
- When user select 'No', the power warning message will pop-up again.
- The power warning message will appear again only when the user does a Factory Reset from the OSD menu.

DEL

If either Thunderbolt (140W) / mDP / HDMI input is selected and the corresponding cable is not connected, a floating dialog box as shown below appears.



When the USB upstream cable is not connected, and you press the **Hookswitch/Mute** button, the following message will appear:



NOTE: For the Hookswitch/ Volume down/ Volume up/ Mute buttons to work, you need to connect the USB upstream cable (Type-A to Type-C or Thunderbolt<sup>™</sup> 4) from the PC to the monitor.

See **Troubleshooting** for more information.



### Setting the maximum resolution

**NOTE:** The steps may vary slightly depending on the version of Windows you have.

To set the maximum resolution for the monitor:

In Windows 8.1:

- 1. For Windows 8.1, select the Desktop tile to switch to classic desktop.
- 2. Right-click on the desktop and click Screen Resolution.

3. If you have more than one monitor connected, ensure that you select U3224KBA.

- 4. Click the Screen Resolution dropdown list and select 6144 x 3456.
- 5. Click OK.

In Windows 10 and Windows 11:

- 1. Right-click on the desktop and click **Display Settings**.
- 2. If you have more than one monitor connected, ensure that you select U3224KBA.
- 3. Click the Display Resolution dropdown list and select 6144 x 3456.
- 4. Click Keep changes.

If you do not see **6144 x 3456** as an option, you must update your graphics driver to the latest version. Depending on your computer, complete one of the following procedures:

If you have a Dell desktop or laptop:

 Go to https://www.dell.com/support, enter your service tag, and download the latest driver for your graphics card.

If you are using a non-Dell computer (laptop or desktop):

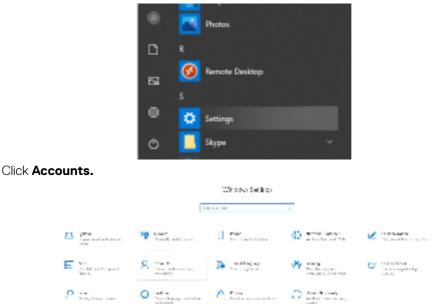
- · Go to the support site for your computer and download the latest graphic drivers.
- · Go to your graphics card website and download the latest graphic drivers.

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### Setting up Windows Hello

In Windows® 10 / Windows® 11:

Click Windows start menu, click Settings.



Click Sign-in options. You must set up a PIN before you can enroll in Windows Hello.





Click **Add** under **PIN** enter to **Set up a PIN**. Enter New PIN and Confirm PIN, and then click **OK**.

| Create a pa   | sword |            |
|---------------|-------|------------|
| Namprova a 1  | I     |            |
| ( e expressed |       |            |
| Provide Lot   |       |            |
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|               |       |            |
|               |       |            |
|               |       |            |
|               |       |            |
|               |       |            |
|               |       | Hall David |

Once you've done that, the options to set up Windows Hello will unlock. Click **Set up** under **Windows Hello**, enter to **Windows Hello** setup.

| * 18-           |  |                               |
|-----------------|--|-------------------------------|
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|                 | PLANE I MARY PRO   |                               |



The following message is displayed, click **Get started**.

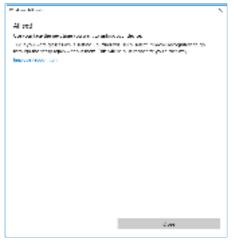


Keep looking directly at your screen and position yourself so that your face is in the center of the frame that appears on screen. The webcam will then register your face.





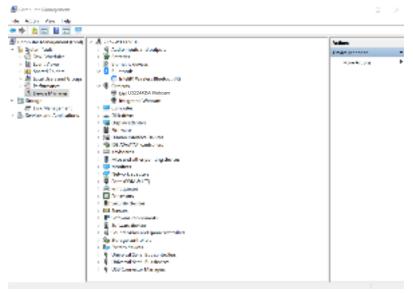
When the following message is displayed, click **Close** to exit **Windows Hello setup**.



Once you have set up, you have another option to improve the recognition. Click **Improve recognition** if necessary.

### Setting up the monitor webcam as default setting

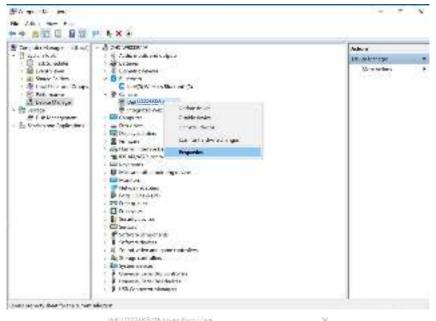
When using a notebook with built-in webcam to connect this monitor, in the device manager interface, you can find the notebook built-in webcam and the monitor webcam. Normally, they are in enable status, and the default setting is using notebook built-in webcam.





If you want to set up the monitor webcam as default setting, you need disable the notebook built-in webcam. To identify the notebook built-in webcam and disable it, please follow below instructions:

Right-click **Dell Monitor IR Webcam**, and click **Properties** to open the **Dell Monitor IR Webcam Properties**.



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|-------|----------------|----------|---------------|-----------------|---------------|
| õ     | II U3224       | IKBA W   | ebcam         |                 |               |
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|       | Location       |          | 3053.00%      | 0000 510 604.00 | 2.053.063.000 |
|       |                |          |               |                 |               |
| 24    | device is ivor | king pro | andy.         |                 |               |
| Dis . | device is wor  | king pro | жķ.           |                 |               |

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#### Click **Details > Property** and select **Hardware Ids**.





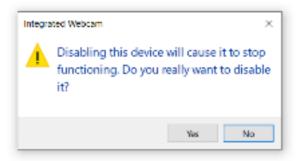
The **Value** will show the detail hardware ids of this Dell Monitor IR Webcam. The hardware ids of the notebook built-in webcam and the monitor webcam are different. For U3224KBA, the monitor webcam hardware ids will show as below:



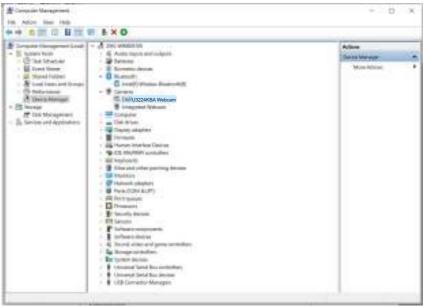
Right click the **PC/Notebook** webcam which has different hardware ids, and then click **Disable**.

| Antipe and stop available in  |  | Value .             |
|---|--|---------------------|
| <ul> <li>If you had<br/>(B) Tableade         <ul> <li>If You had be             </li> <li>If You had be             </li> <li>If You had be             </li> <li>If You had be             <li>If You had be             </li> <liif <="" be="" had="" li="" you=""></liif></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></ul></li></ul> | <ul> <li>A dec a qui intel deci al</li> <li>B concerne transit</li> <li>B concerne tra</li></ul> | Production (system) |

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Click **Yes**. The notebook webcam is now disabled, and the monitor webcam will be used as the default setting. Restart the notebook.



### Setting up the monitor speaker as default setting

When your computer connects multiple speakers, if you want to set up the monitor speaker as default setting, please follow below instructions:

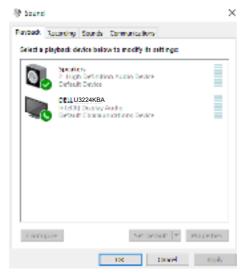
Right-click Volume in the Windows task bar notification area.



Click Playback devices enter to Sound setting interface.



If only the HDMI or mDP cable is connected from your monitor to the computer, only one speaker named **DELL U3224KBA** from the monitor will show in the **Sound** setting interface.





Click **DELL U3224KBA**, and then click **Set Default**, the monitor speaker will be used as the default setting.



Click OK to exit the Sound setting.

| S-Hah Dolation Alter Dovis<br>anny                    | 1 |
|---|---|
| <br>Cono Cancol no Sacabotanona<br>UNI U3224KBA Audio | 1 |
| • U3224KBA  |   |
|   |   |
|   |   |

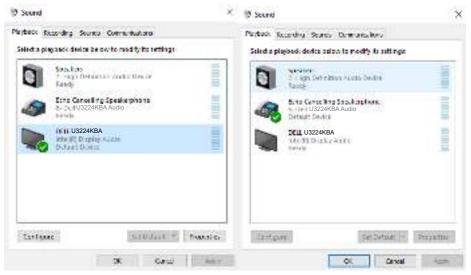
If the USB cable and the HDMI or mDP cable are connected from monitor to the computer, two audio paths named **DELL U3224KBA** and **Echo Cancelling Speakerphone U3224KBA** from the monitor will show in the **Sound** setting interface. The **U3224KBA** monitor would show options for two audio paths supported in the monitor.



- Echo Cancelling Speakerphone audio path is where audio streams through USB. This is either through USB-C to USB-C cable or USB-A to USB-C cable. As the microphone path streams from monitor back to PC through USB, this selection is required for VoIP/UC conference applications. Audio Recording and Playback will work under this selection.
- **DELL U3224KBA** audio path is where audio streams through HDMI/mDP alternate mode. Under this selection, there will not be microphone support. This selection is suitable for Audio Playback only.

Audio Playback performance would be the same for either audio path selection. Under normal Playback with USB-C to USB-C/USB-A to USB-C and/or for UC conference applications, default selecting the **Echo Cancelling Speakerphone** audio path is recommended.

NOTE: If you select DELL U3224KBA audio path, please ensure that the Echo Cancelling Speakerphone volume is set to medium or high. Else, the DELL U3224KBA maximum volume may sound soft because it is limited by the Echo Cancelling Speakerphone volume. For example, when the Echo Cancelling Speakerphone volume is at 50%, and the DELL U3224KBA volume is set to 100% will have the same sound level as the former.



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# Troubleshooting

WARNING: Before you begin any of the procedures in this section, follow the Safety Instructions.

### Self-test

Your monitor provides a self-test feature that allows you to check whether your monitor is functioning properly. If your monitor and computer are properly connected but the monitor screen remains dark, run the monitor self-test by performing the following steps:

- 1. Turn off both your computer and the monitor.
- **2.** Unplug the video cable from the back of the computer. To ensure proper Self-Test operation, remove all digital and the analog cables from the back of computer.
- **3.** Turn on the monitor.

The floating dialog box should appear on-screen (against a black background), if the monitor cannot sense a video signal and is working correctly. While in self-test mode, the power LED remains white. Also, depending upon the selected input, one of the dialogs shown below will continuously scroll through the screen.

| Deal |
|------|
|      |
|      |
|      |
|      |
| Or   |
| Deal |
|      |
|      |
|      |

- **4.** This message also appears during normal system operation if the video cable is disconnected or damaged.
- **5.** Turn off your monitor and reconnect the video cable; then turn on both your computer and the monitor.

If your monitor screen remains blank after you use the previous procedure, check your video controller and computer, because your monitor is functioning properly.



### **Built-in diagnostics**

Your monitor has a built-in diagnostic tool that helps you determine if the screen abnormality you are experiencing is an inherent problem with your monitor, or with your computer and video card.

| ÷ | Brightness/Contrast |  |  |
|---|---------------------|--|--|
|   | Input Source        |  |  |
|   |                     |  |  |
|   | Color               |  |  |
|   | Display             |  |  |
|   | PIP/PBP             |  |  |
|   |                     |  |  |
|   | Audio & Webcam      |  |  |
|   | Menu                |  |  |
|   | Personalize         |  |  |
|   |                     |  |  |
|   |                     |  |  |
|   |                     |  |  |

#### To run the built-in diagnostics:

- 1. Ensure that the screen is clean (no dust particles on the surface of the screen).
- **2.** Press and hold Up or Down or Left or Right direction for four seconds until a menu appears on the screen.
- **3.** Using the joystick control, highlight the Diagnostics  $\bigsqcup_{\mathbf{c}}$  option and press the joystick button to start the diagnostics. A gray screen is displayed.
- 4. Observe if the screen has any defects or abnormalities.
- 5. Toggle the joystick once again until a red screen is displayed.
- 6. Observe if the screen has any defects or abnormalities.
- **7.** Repeat steps 5 and 6 until the screen displays green, blue, black, and white colors. Note any abnormalities or defects.

The test is complete when a text screen is displayed. To exit, toggle the joystick control again.

If you do not detect any screen abnormalities upon using the built-in diagnostic tool, the monitor is functioning properly. Check the video card and computer.

## **Common Problems**

The following table contains general information about common monitor problems you might encounter and the possible solutions:

| Common<br>Symptoms         | What you<br>experience         | Possible solutions  |
|----------------------------|--------------------------------|---|
| No Video/<br>Power LED off | No picture                     | <ul> <li>Ensure that the video cable connecting<br/>the monitor and the computer is properly<br/>connected and secure.</li> <li>Verify that the power outlet is functioning<br/>properly using any other electrical<br/>equipment.</li> <li>Ensure that the power button is depressed<br/>fully.</li> <li>Ensure that the correct input source is<br/>selected in the Input Source menu.</li> </ul> |
| No Video/<br>Power LED on  | No picture or no<br>brightness | <ul> <li>Increase brightness and contrast controls via OSD.</li> <li>Perform monitor self-test feature check.</li> <li>Check for bent or broken pins in the video cable connector.</li> <li>Run the built-in diagnostics.</li> <li>Ensure that the correct input source is selected in the Input Source menu.</li> </ul>  |
| Missing Pixels             | LCD screen has spots           | <ul> <li>Cycle power on-off.</li> <li>Pixel that is permanently off is a natural defect that can occur in LCD technology.</li> <li>For more information on Dell Monitor Quality and Pixel Policy, see Dell Support site at: https://www.dell.com/pixelguidelines.</li> </ul>  |
| Stuck-on Pixels            | LCD screen has<br>bright spots | <ul> <li>Cycle power on-off.</li> <li>Pixel that is permanently off is a natural defect that can occur in LCD technology.</li> <li>For more information on Dell Monitor Quality and Pixel Policy, see Dell Support site at: https://www.dell.com/pixelguidelines.</li> </ul>  |

| Common<br>Symptoms   | What you<br>experience  | Possible solutions  |
|--|---|---|
| Brightness<br>Problems   | Picture too dim or<br>too bright  | <ul> <li>Reset the monitor to factory settings.</li> <li>Adjust brightness and contrast controls via<br/>OSD.</li> </ul>  |
| Safety Related<br>Issues   | Visible signs of smoke or sparks  | <ul> <li>Do not perform any troubleshooting steps.</li> <li>Contact Dell immediately.</li> </ul>  |
| Intermittent<br>Problems   | Monitor<br>malfunctions on &<br>off   | <ul> <li>Ensure that the video cable connecting<br/>the monitor to the computer is connected<br/>properly and is secure.</li> <li>Reset the monitor to factory settings.</li> <li>Perform monitor self-test feature check<br/>to determine if the intermittent problem<br/>occurs in self-test mode.</li> </ul>           |
| Missing Color  | Picture missing color   | <ul> <li>Perform monitor self-test.</li> <li>Ensure that the video cable connecting<br/>the monitor to the computer is connected<br/>properly and is secure.</li> <li>Check for bent or broken pins in the video<br/>cable connector.</li> </ul>  |
| Wrong Color  | Picture color not<br>good   | <ul> <li>Change the settings of the Preset Modes<br/>in the Color menu OSD depending on the<br/>application.</li> <li>Adjust R/G/B value under Custom Color in<br/>Color menu OSD.</li> <li>Change the Input Color Format to PC RGB<br/>or YPbPr in the Color menu OSD.</li> <li>Run the built-in diagnostics.</li> </ul> |
| Image retention<br>from a static<br>image left on<br>the monitor for<br>a long period of<br>time | Faint shadow from<br>the static image<br>displayed appears on<br>the screen | <ul> <li>Set the screen to turn off after a few minutes of screen idle time. These can be adjusted in Windows Power Options or Mac Energy Saver setting.</li> <li>Alternatively, use a dynamically changing screensaver.</li> </ul>   |

| Common<br>Symptoms  | What you<br>experience  | Possible solutions   |
|---|---|--|
| Mic/Webcam<br>does not work                                   | <ul> <li>USB cable not<br/>plugged in or<br/>correct USB source<br/>not selected</li> <li>Monitor Mic/<br/>webcam is not<br/>set as the default<br/>device</li> </ul> | <ul> <li>Plug in the USB Cable (Type-A to Type-C or Thunderbolt<sup>™</sup> 4), and if you connect both USB-C port, please switch the USB source in the OSD menu.</li> <li>Select the monitor Mic/webcam as the default in the PC side.</li> <li>Touch the Mic button and make sure the Mic mute LED is dark.</li> </ul>   |
| TBT cannot<br>display   | TBT out port<br>connect the 2nd<br>Monitor cannot<br>display but the<br>display setting can<br>recognize 2 monitor  | <ul> <li>Open the display setting in NB/PC, if you can see both monitor, then you can reduce the 2nd Monitor resolution.</li> <li>Open OSD in Monitor, Go to OSD menu, under Input Source selection, press and hold TBT select joystick key for 8 seconds to change the monitor setting from HBR3 to HBR2.</li> </ul>  |
| Webcam Video<br>flickering                                    | Experience a visible<br>webcam video<br>flickering  | <ul> <li>In some situations, you may experience<br/>a visible webcam video flickering that<br/>is caused by interference from some<br/>conventional fluorescent lamps.</li> <li>If you experience this issue, please<br/>download Dell Peripheral Manager (for<br/>PC) / Dell Display &amp; Peripheral Manager<br/>(for Mac) software. In Dell Display &amp;<br/>Peripheral Manager / Dell Peripheral<br/>Manager, go to "Color and Image &gt; Anti<br/>Flicker" and select the frequency option,<br/>50Hz or 60Hz, that presents no flickering.</li> <li>You can also adjust the tilt or placement<br/>of the webcam away from any fluorescent<br/>lamp.</li> </ul> |
| Power DVD<br>can't play<br>normally when<br>using mDP<br>port | Connect mDP cable<br>with source and<br>monitor, play power<br>DVD, and power<br>DVD can't play and<br>display error  | • Go to OSD menu under input source<br>selection, press and hold mDP joystick<br>middle key for 8 seconds to switch DP1.4.   |



| Common<br>Symptoms  | What you<br>experience  | Possible solutions  |
|---|---|---|
| The monitor<br>cannot detect<br>signal connect<br>with dock after<br>AC/DC Off/On,<br>cable uplug/<br>Plug                              | Connect the Dock<br>USB-C cable to<br>platform. Connect<br>DUT with TBT4<br>cable to the Dock<br>USB-C port. The<br>monitor cannot<br>detect the signal<br>after AC Off/On<br>TBT4 cable Unplug/<br>Plug  | <ul> <li>Connect the monitor directly with platform.</li> <li>Change the TBT4 cable to USB-C cable.</li> </ul>  |
| The two<br>monitor<br>maximum<br>resolution<br>can't reach<br>6144*3456<br>@60hz when<br>TBT Daisy<br>Chain                             | Connect 1st DUT<br>with TBT4 cable<br>to the platform.<br>Connect 2nd DUT<br>to the 1st DUT<br>Thunderbolt <sup>™</sup> out<br>port with TBT4<br>cable. The 2nd<br>monitor or 1st<br>monitor can't reach<br>6144*3456@60hz  | <ul> <li>Open OSD in Monitor,Go to OSD menu,<br/>under Input Source selection, press and<br/>hold TBT select joystick key for 8 seconds<br/>to change the monitor setting from HBR3<br/>to HBR2. The two monitor need do this<br/>setting.</li> </ul> |
| 2nd monitor<br>shows black<br>screen when<br>TBT daisy chain<br>and enable<br>SmartHDR<br>on both OSD<br>and Windows<br>display setting | Connect 1st DUT<br>with TBT4 cable<br>to the platform.<br>Connect 2nd DUT<br>to the 1st DUT<br>Thunderbolt <sup>™</sup><br>out port with<br>TBT4 cable. Set<br>both DUT to the<br>maximum resolution<br>(6144x3456). Enable<br>SmartHDR on both<br>OSD and Windows<br>display setting. 2nd<br>monitor shows black<br>screen | <ul> <li>Intel UHD graphic limitation, suggest use<br/>Intel Iris graphic.</li> <li>Disable SmartHDR on both OSD and<br/>Windows display setting.</li> </ul>  |

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| Common<br>Symptoms  | What you<br>experience   | Possible solutions   |
|---|--|--|
| The monitor<br>cannot detect<br>signal on<br>mDP after<br>video cable<br>unplug/plug,<br>sleep/wake,<br>hibernate/wake        | Connect mDP cable<br>with source and<br>monitor, the monitor<br>can't detect signal  | <ul> <li>Go to OSD menu under input source<br/>selection, press and hold mDP joystick<br/>middle key for 8 seconds to switch DP1.4.</li> </ul>   |
| Platform hangs<br>on mDP when<br>wake up the<br>platform from<br>sleep  | Connect DUT with<br>mDP cable to the<br>platform. Do a<br>Platform Sleep/<br>Wake. Platform will<br>hang   | • If your platform is DP1.4 graphic card and<br>suggest to go to OSD menu under input<br>source selection, press and hold mDP<br>joystick middle key for 8 seconds to switch<br>DP1.4. |
| Auto source<br>can't<br>automatically<br>switch to mDP<br>input source<br>when you<br>connect the<br>mDP cable to<br>platform | When you connect<br>the HDMI cable<br>and mDP cable to<br>monitor, connect<br>HDMI cable to<br>platform and<br>display normally,<br>then connect mDP<br>cable to platform.<br>The signal can't<br>automatically to<br>mDP signal | <ul> <li>Unplug and plug the mDP cable from<br/>monitor side.</li> <li>Go to OSD menu and enter input source<br/>select mDP manually.</li> </ul>                                       |

| Problem   | What you<br>experience   | Possible solutions  |
|---|--|---|
| Screen image is<br>too small  | Image is<br>centered on<br>screen, but does<br>not fill entire<br>viewing area | <ul> <li>Check the Aspect Ratio setting in the Display<br/>menu OSD.</li> <li>Reset the monitor to factory settings.</li> </ul>   |
| Cannot adjust<br>the monitor<br>with the<br>joystick control<br>on the rear of<br>the monitor | OSD does not<br>appear on the<br>screen  | <ul> <li>Turn off the monitor, unplug the monitor<br/>power cable, plug it back, and then turn on the<br/>monitor.</li> </ul>   |
| No Input Signal<br>when user<br>controls are<br>pressed                                       | No picture, the<br>LED light is<br>white                                       | <ul> <li>Check the signal source. Ensure the computer<br/>is not in the power saving mode by moving the<br/>mouse or pressing any key on the keyboard.</li> <li>Check whether the signal cable is plugged<br/>in properly. Connect the signal cable again, if<br/>necessary.</li> <li>Reset the computer or video player.</li> </ul>                              |
| The picture<br>does not fill the<br>entire screen   | The picture<br>cannot fill the<br>height or width<br>of the screen             | <ul> <li>Due to different video formats (aspect ratio) of DVDs, the monitor may display in full screen.</li> <li>Run the built-in diagnostics.</li> </ul>   |
| No image<br>when using DP<br>connection to<br>the PC  | Blank screen   | <ul> <li>Verify which DP standard is your Graphics Card certified to. Download and install the latest graphics card driver.</li> <li>Some DP 1.4 graphics card cannot support DP 2.0 monitors. Go to OSD menu, under Input Source selection, press and hold mDP select joystick key for 8 seconds to change the monitor setting from DP 2.0 to DP 1.4.</li> </ul> |

### Product specific problems

Troubleshooting | 113

| Problem  | What you<br>experience                          | Possible solutions   |
|--|---|--|
| No image<br>when using<br>Thunderbolt™<br>4 connection<br>to computer,<br>laptop, and so<br>on                             | Blank screen                                    | <ul> <li>Verify if the Thunderbolt<sup>™</sup> 4 interface of the device can support DP alternate mode.</li> <li>Verify if the device required more than EPR 140W power charging.</li> <li>Thunderbolt<sup>™</sup> 4 interface of device cannot support DP alternate mode.</li> <li>Set Windows to Projection mode.</li> <li>Ensure that the Thunderbolt<sup>™</sup> 4 cable is not damaged.</li> </ul>  |
| No charging<br>when using<br>Thunderbolt <sup>™</sup><br>4 connection<br>to computer,<br>laptop, and so<br>on              | No charging                                     | <ul> <li>Verify if the device can support one of 5 V/9 V/15 V/20 V/28 V charging profiles.</li> <li>Verify if the Notebook requires a &gt;EPR 140W power adaptor.</li> <li>If the Notebook requires a &gt;EPR 140W power adaptor, it may not charge with the Thunderbolt<sup>™</sup> 4 connection.</li> <li>Ensure that you use only Dell approved adapter or the adapter that comes with the product.</li> <li>Ensure that the Thunderbolt<sup>™</sup> 4 cable is not damaged.</li> </ul> |
| Intermittent<br>charging<br>when using<br>Thunderbolt <sup>™</sup><br>4 connection to<br>computer,<br>laptop, and so<br>on | Intermittent<br>charging                        | <ul> <li>Check if the maximum power consumption of device is over EPR 140W.</li> <li>Ensure that you use only Dell approved adapter or the adapter that comes with the product.</li> <li>Ensure that the Thunderbolt<sup>™</sup> 4 cable is not damaged.</li> </ul>  |
| No image when<br>using TBT   | Blank screen or<br>2nd DUT is not<br>Prime mode | <ul> <li>Thunderbolt<sup>™</sup> 4 input, Go to OSD menu,<br/>under Input Source selection, press and hold<br/>Thunderbolt(140W) select joystick key for 8<br/>seconds to change the monitor setting from<br/>HBR3 to HBR2. The two monitor need do this<br/>setting.</li> </ul>   |
| No network<br>connection   | Network<br>dropped or<br>Intermittent           | • Do not toggle Off/On the power button when network is connected, keeps the power button On.  |

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| Problem  | What you<br>experience   | Possible solutions   |
|--|--|--|
| The LAN port is not functioning  | OS setting or<br>cable connection<br>issue   | <ul> <li>Ensure that the latest BIOS and drivers for your computer are installed on your computer.</li> <li>Ensure that the RealTek 2.5G Ethernet Controller is installed in the Windows Device Manager.</li> <li>If your BIOS Setup has a LAN/GBE Enabled/ Disabled option, make sure it is set to Enabled.</li> <li>Ensure that the Ethernet cable is connected securely on the monitor and the hub/router/ firewall.</li> <li>Check the status LED of the Ethernet cable to confirm connectivity. Re-connect both ends of the Ethernet cable if the LED is not lit.</li> <li>First power off the Computer and unplug the Thunderbolt<sup>™</sup> 4 cable and power cord of the monitor. Then, power on the computer, plug in the monitor power cord and Thunderbolt<sup>™</sup> 4 cable.</li> </ul> |
| Monitor<br>buttons (Mute<br>/ Volume down<br>/ Volume up /<br>Hookswitch)<br>not working<br>with Microsoft<br>Teams® App | Monitor<br>buttons (Mute<br>/ Volume down<br>/ Volume up /<br>Hookswitch)<br>not working<br>on Microsoft<br>Teams® App<br>with Chrome OS<br>/ Ubuntu | Use Microsoft Teams® App to perform the below<br>tasks:<br>• Call Icon to accept / hang up call<br>• Volume down / Volume up adjustment<br>• Mic mute / unmute<br>• Video on / off   |
| Video recording<br>not working   | Video recording<br>App not working<br>with Win 7   | <ul> <li>Windows 7 not support</li> <li>Switch to Windows 10 / Windows 11</li> </ul>   |

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| Problem   | What you<br>experience   | Possible solutions  |
|---|--|---|
| When press<br>either Volume<br>down / Volume<br>up or Mute<br>button, LED<br>does not blink | When press<br>either Volume<br>down / Volume<br>up or Mute<br>button, LED<br>not blink when<br>connected to<br>HDMI or DP only | Connect USB-A to USB-C cable  |
| Webcam or Mic<br>not working  | Webcam or Mic<br>not working<br>when connected<br>to HDMI or DP<br>only  | Connect USB-A to USB-C cable  |
| Ethernet port<br>(RJ45) cannot<br>connect to<br>internet                                    | Ethernet port<br>(RJ45) cannot<br>connect to<br>internet on Win<br>10 / Win 11   | Change the LAN Controller Power Saving from Enable to Disable   |
| No sound<br>coming from<br>the speakers   | No sound<br>coming from the<br>speakers when<br>play audio/video<br>on your system   | <ul> <li>Ensure that you have set the default playback device as Echo Cancelling Speakerphone U3224KBA or DELL U3224KBA on your system.</li> <li>Turn Off the monitor, unplug the monitor power cord, replug it, and then turn on the monitor.</li> <li>Reset the monitor to Factory Settings.</li> </ul> |



| Problem  | What you<br>experience  | Possible solutions  |
|--|---|---|
| Speaker volume<br>is low / sounds<br>soft            | Speaker volume<br>is low / sounds<br>soft when<br>speaker option is<br>DELL U3224KBA<br>in Sound setting<br>interface | <ul> <li>Increase the speaker volume of DELL<br/>U3224KBA to maximum in the Sound setting<br/>interface</li> <li>Press the Volume Up button to increase the<br/>speaker volume of DELL U3224KBA</li> <li>If you select DELL U3224KBA audio path,<br/>please ensure that the Echo Cancelling<br/>Speakerphone volume is set to medium or<br/>high. Else, the DELL U3224KBA maximum<br/>volume may sound soft because it is limited<br/>by the Echo Cancelling Speakerphone<br/>volume. For example, when the Echo Cancelling<br/>Speakerphone volume is at 50%, and the DELL<br/>U3224KBA volume is set to 100% will have the<br/>same sound level as the former.</li> </ul> |
| Webcam is not<br>detected                            | Webcam is not<br>detected in the<br>Windows Device<br>Manager   | <ul> <li>Ensure that the USB upstream cable is connected between the monitor and the computer or notebook.</li> <li>Ensure that the USB is assigned to the port to which the USB cable is plugged in to.</li> <li>Reconnect the USB upstream cable to the computer or notebook.</li> </ul>  |
| Webcam<br>cannot connect<br>/ Webcam<br>disconnected | Could not detect<br>Monitor camera<br>/ Could not<br>switch back to<br>the PC camera                                  | <ul> <li>Reset the monitor to Factory Settings.</li> <li>Turn Off the monitor, unplug the monitor power cord, replug it, and then turn On the monitor.</li> <li>Select the Monitor camera again in the Camera / Video setting of your UC conference application.</li> </ul>   |

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| Problem                                      | What you<br>experience   | Possible solutions   |
|--|--|--|
| Microphone is<br>muted                       | Microphone is<br>muted in the<br>Windows Device<br>Manager   | <ul> <li>Ensure that the USB upstream cable is connected between the monitor and the computer or notebook.</li> <li>Ensure that the USB is assigned to the port to which the USB cable is plugged in to.</li> <li>Reconnect the USB upstream cable to the computer or notebook.</li> <li>Ensure that the microphone is enabled/ unmuted on the monitor. If the microphone mute LED is lighting up in static red (indicates microphone muted), press the microphone is selected and enabled/unmuted on the setting in the UC application.</li> </ul>                            |
| Microphone<br>volume is low /<br>sounds soft | Microphone<br>volume is low<br>/ sounds soft<br>to the other<br>participant when<br>in audio/video<br>call | <ul> <li>Ensure the Mute button's LED will go dark<br/>(indicates microphone unmuted).</li> <li>Adjust the distance between the user and<br/>the microphone. The user should avoid sitting<br/>too far away from the microphone. The most<br/>optimum distance between the user and the<br/>microphone is 70 cm.</li> <li>Ensure that the monitor's microphone is<br/>selected and enabled/unmuted on the setting in<br/>the UC application.</li> <li>Increase the microphone volume in the Sound<br/>setting interface at the PC side / in the UC<br/>application.</li> </ul> |
| Front buttons<br>don't work                  | No response<br>on the UC<br>application when<br>press on the<br>buttons located<br>on the speaker          | <ul> <li>Ensure that the USB upstream cable (Type-A to Type-C or Thunderbolt<sup>™</sup> 4) is connected from the PC to the monitor.</li> <li>Ensure that the USB is assigned to the port to which the USB cable is plugged in to.</li> <li>For some UC platforms / applications, the Mute function works by pressing the Mute button, but the Mute lcon on the UC platform is not sync (lcon shows unmute).</li> </ul>  |

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| Problem                                 | What you<br>experience                                | Possible solutions   |
|---|---|--|
| Webcam image<br>looks over-<br>exposed  | Webcam<br>image shows<br>over-exposed<br>background   | <ul> <li>Adjust the environment lighting condition.</li> <li>Ensure the monitor is setup at a well-lighted<br/>environment, preferably under ceiling lights. The<br/>user should avoid a dim / dark background. The<br/>user should avoid direct facing a window with<br/>bright sunlight.</li> <li>Alternatively, you may use Dell Peripheral<br/>Manager to adjust the webcam setting of color.</li> </ul> |
| Webcam image<br>looks grainy /<br>dark  | Webcam image<br>appears grainy /<br>dark              | <ul> <li>Adjust the environment lighting condition.</li> <li>Ensure the monitor is setup at a well lighted<br/>environment, preferably under ceiling lights. The<br/>user should avoid a dim environment.</li> </ul>   |
| Webcam image<br>looks blurry            | Webcam image<br>appears blurry /<br>not clear.        | <ul> <li>Use a clean and slightly damp cloth to wipe the surface of the front webcam.</li> <li>Adjust the distance between the user and the camera. The user should avoid sitting too far away from the camera. The most optimum distance between the user and the camera is 70 cm.</li> </ul>   |
| Teams<br>Microphone<br>volume           | Teams<br>Microphone<br>volume is smaller<br>than Zoom | <ul> <li>This is normal behavior as the volume<br/>specifications are different between Teams and<br/>Zoom.</li> </ul>   |
| Teams/Zoom<br>small window<br>distorted | Teams/Zoom<br>small window<br>image distorted         | • This is normal behavior. The resolution of the small images are compressed when the main image is in high resolution (4K). If a lower resolution (720P & 1080P) is selected, there will not be any difference between the images.  |
| Image quality                           | The image   | Always poor:   |
| poor                                    | quality of the<br>monitor was<br>poor                 | <ul> <li>Check that your computer is USB 3.0-capable.</li> <li>Some computers have USB 3.0, USB 2.0, and<br/>USB 1.1 ports. Ensure that the correct USB port<br/>is used.</li> <li>Sometime poor:</li> </ul>   |
|   |   | <ul> <li>Network will affect the image quality, ensure<br/>your network is fine.</li> </ul>  |

| Problem         | What you<br>experience                        | Possible solutions   |
|-----------------|---|--|
| Tof no function | Presence<br>detection/wake-<br>up not working | <ul> <li>When using Teams/Zoom call, the wake up function not working is normal.</li> <li>It works when a user is not using Teams/Zoom.</li> </ul> |



# Microsoft<sup>®</sup> Teams<sup>®</sup> / Skype for Business<sup>®</sup> specific problems

| Problem  | What you<br>experience  | Possible solutions   |
|--|---|--|
| The<br><b>Hookswitch</b><br>button is not<br>working | Short press on<br>the <b>Hookswitch</b><br>button does not<br>answer call | <ul> <li>Ensure that the USB upstream cable (Type-A to Type-C or Thunderbolt<sup>TM</sup> 4) is connected from the PC to the monitor.</li> <li>Ensure that the Teams account is provisioned / setup as 'Teams Only' mode. The tenant administrator should enable the account to 'Teams Only' mode.</li> </ul>  |
| The <b>Mute</b><br>button is not<br>working          | Press on the <b>Mute</b> button does not mute and unmute microphone       | <ul> <li>Ensure that the USB upstream cable (Type-A to Type-C or Thunderbolt<sup>™</sup> 4) is connected from the PC to the monitor.</li> <li>Ensure that the Mute button's LED will go dark (indicates microphone unmuted).</li> <li>Ensure that the Teams account is provisioned / setup as 'Teams Only' mode. The tenant administrator should enable the account to 'Teams Only' mode.</li> </ul> |
| Webcam no<br>image                                   | Webcam no<br>image when<br>using Skype for<br>Business (SfB)              | <ul> <li>Ensure that the USB upstream cable (Type-A to Type-C or Thunderbolt<sup>™</sup> 4) is connected from the PC to the monitor.</li> <li>Select 'DELL Monitor RGB Webcam' as the camera in Skype Video Device setting.</li> </ul>   |
| Webcam being<br>occupied                             | Webcam being<br>occupied and<br>can't be used                             | <ul> <li>Avoid running multiple conference applications<br/>at the same time. While you are using<br/>'conference software A', close the other<br/>'conference software B'.</li> </ul>   |

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| Specific<br>Symptoms  | What you<br>experience   | Possible solutions  |
|---|--|---|
| USB interface is<br>not working   | USB peripherals<br>are not working   | <ul> <li>Check that your display is turned ON.</li> <li>Reconnect the upstream cable to your computer.</li> <li>Reconnect the USB peripherals (downstream connector).</li> <li>Turn off the monitor and turn it on again.</li> <li>Reboot the computer.</li> <li>Certain USB devices such as portable hard drives require higher power source; connect the drive to the computer directly.</li> </ul> |
| super speed<br>USB 3.2 Gen<br>2 interface is<br>slow.                                 | super speed<br>USB 3.2 Gen<br>2 peripherals<br>working slowly or<br>not working at all   | <ul> <li>Check that your computer is USB 3.0-capable.</li> <li>Some computers have USB 3.0, USB 2.0, and<br/>USB 1.1 ports. Ensure that the correct USB port<br/>is used.</li> <li>Reconnect the upstream cable to your<br/>computer.</li> <li>Reconnect the USB peripherals (downstream<br/>connector).</li> <li>Reboot the computer.</li> </ul>   |
| Wireless USB<br>peripherals stop<br>working when a<br>USB 3.0 device<br>is plugged in | Wireless USB<br>peripherals<br>responding<br>slowly or only<br>working as<br>the distance<br>between itself<br>and its receiver<br>decreases | <ul> <li>Increase the distance between the USB 3.0 peripherals and the wireless USB receiver.</li> <li>Position your wireless USB receiver as close as possible to the wireless USB peripherals.</li> <li>Use a USB-extender cable to position the wireless USB receiver as far away as possible from the USB 3.0 port.</li> </ul>  |

### Universal Serial Bus (USB) specific problems



### Appendix

## FCC notices (U.S. only) and other regulatory information

For FCC notices and other regulatory information, see the regulatory compliance website located at <a href="https://www.dell.com/regulatory\_compliance">https://www.dell.com/regulatory\_compliance</a>.

#### **Contacting Dell**

For customers in the United States, call 800-WWW-DELL (800-999-3355).

# NOTE: If you do not have an active Internet connection, you can find contact information on your purchase invoice, packing slip, bill, or Dell product catalog.

Dell provides several online and telephone-based support and service options. Availability varies by country and product, and some services may not be available in your area.

#### To get online Monitor support content:

See https://www.dell.com/support/monitors.

#### To contact Dell for sales, technical support, or customer service issues:

- 1. Go to https://www.dell.com/support.
- **2.** Verify your country or region in the Choose A Country/Region drop-down menu at the bottom-right corner of the page.
- 3. Click Contact Us next to the country dropdown.
- 4. Select the appropriate service or support link based on your need.
- 5. Choose the method of contacting Dell that is convenient for you.

## EU product database for energy label and product information sheet

U3224KBA: https://eprel.ec.europa.eu/qr/1470654