# Lenovo Legion R24s User Guide

# **Product numbers**

C25238FR0 68CBGAC2WW

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# Safety information

# **General Safety guidelines**

For tips to help you use your computer safely, go to: http://www.lenovo.com/safety

Before installing this product, read the Safety Information.



#### **DANGER**

#### To avoid shock hazard:

- Do not remove the covers.
- Do not operate this product unless the stand is attached.
- Do not connect or disconnect this product during an electrical storm.
- The power cord plug must be connected to a properly wired and grounded power outlet.
- Any equipment to which this product will be attached must also be connected to properly wired and grounded power outlets.
- To isolate the monitor from the electrical supply, you must remove the plug from the power outlet. The power outlet should be easily accessible.

To take special precautions to avoid the introduction of hazards when operating, installing, servicing, transporting or storing equipment, the necessary instructions shall be made available.

To reduce the risk of electric shock, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.

#### Handling

• If your monitor weighs more than 18 kg (39.68 lb), it is recommended that it be moved or lifted by two people.



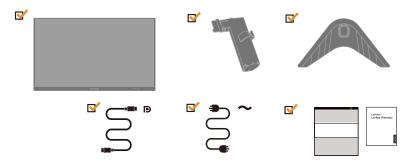
# **Chapter 1. Getting started**

This User's Guide contains detailed information on your Flat Panel Monitor. For a quick overview, please see the Setup Poster that was shipped with your monitor. R24s supports Lenovo Accessories and Display Manager - **Artery**.

# **Shipping contents**

The product package should include the following items:

- Flat Panel Monitor
- Information Flyer
- Lenovo Limited Warranty Booklet
- Stand
- Base
- Power Cord
- Display Port Cable



#### Notice for use

To set up your monitor, please see the illustrations below.

**Note:** Do not touch the monitor within the screen area. The screen area is glass and can be damaged by rough handling or excessive pressure.



- 1. Carefully lay the monitor on a flat surface.
- 2. Insert the tab on the upper part of the stand into the card slot on the back of the monitor.
- 3. Insert the base into the stand.
- 4. Stand up the monitor with both hands carefully.

Note: To attach a VESA mount, please see "Wall Mounting (Optional)" on page 2-9.

# **Product overview**

This section will provide information on adjusting monitor positions, setting user controls, and using the cable lock slot.

# Types of adjustments

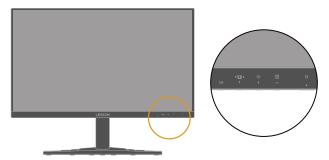
## Tilt

Please see the illustration below for an example of the tilt range.



# **Monitor controls**

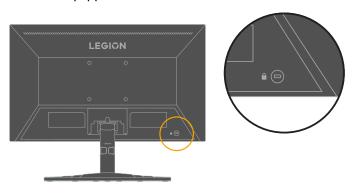
Your monitor has controls in flank which are used to adjust the display.



For information on how to use these controls, please see "Adjusting your monitor image" on page 2-3.

# **Cable lock slot**

Your monitor is equipped with a cable lock slot located on the rear of your monitor.



# Setting up your monitor

This section provides information on how to set up your monitor.

# Connecting and turning on your monitor

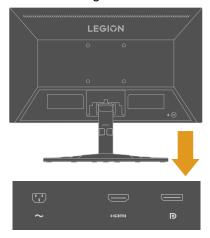
**Note:** Be sure to read the Safety information located on page iii before carrying out this procedure.

1. Power off your computer and all attached devices, and unplug the computer power cord.



Note: The type of plug & Socket shown here are for illustration only.

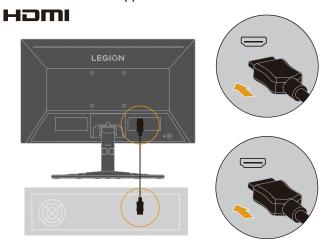
2. Connect the cables according to below icon indication.



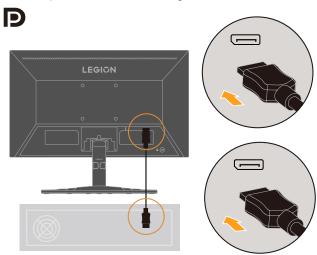
3. For computer in HDMI connecting.

**Note:** Lenovo recommends that customers who require to use the HDMI input on their

monitor purchase the "Lenovo HDMI to HDMI cable OB47070" www.lenovo.com/support/monitoraccessories.

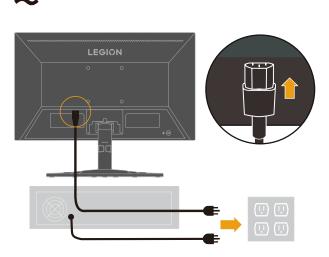


4. For computer in DP connecting.



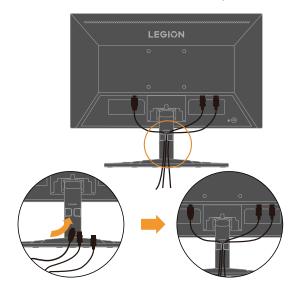
5. Insert the power cord into the monitor, then plug the monitor power cord and the computer cord into grounded electrical outlets.

**Note:** A certified power supply cord has to be used with this equipment. The relevant national installation and or equipment regulations shall be considered. A certified power supply cord not lighter than ordinary polyvinyl chloride flexible cord according to IEC 60227 (designation H05VV-F 3G 0.75mm² or H05VVH2-F2 3G 0.75mm²) shall be used. Alternative a flexible cord be of synthetic rubber according to IEC 60245 (designation H05RR-F 3G 0.75mm²) shall be used.

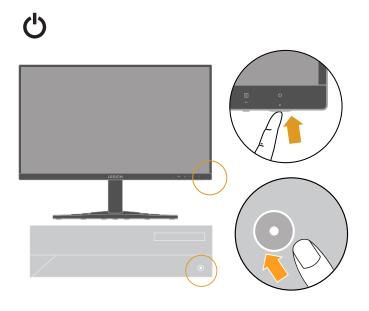


Note: The type of plug & Socket shown here are for illustration only.

6. Connect the cables with cable clip.



7. Power on the monitor and the computer.



8. When you install the monitor driver, download the driver that corresponds to your monitor model from the Lenovo website https://pcsupport.lenovo.com/solutions/r24s. Refer to the "Manually installing the monitor driver"on page 3-5" section to install the driver.



# **Registering your option**

Thank you for purchasing this Lenovo product. Please take a few moments to register your Product and provide us with information that will help Lenovo to better serve you in the future. Your feedback is valuable to us in developing product and services that are important to you, as well as in developing better ways to communicate with you. Register your option on the following Web site: http://www.lenovo.com/register

Lenovo will send you information and updates on your registered product unless you indicate on the Web site questionnaire that you do not want to receive further information.

# Chapter 2. Adjusting and using your monitor

This section will give you information on adjusting and using your monitor.

# **Comfort and accessibility**

Good ergonomic practice is important to get the most from your personal computer and to avoid discomfort. Arrange your workplace and the equipment you use to suit your individual needs and the kind of work that you perform. In addition, use healthy work habits to maximize your performance and comfort while using your computer. For more detailed information on any of these topics, visit the Healthy Computing Web site at: http://www.lenovo.com/healthycomputing/.

# Arranging your work area

Use a work surface of appropriate height and available working area to allow you to work in comfort.

Organize your work area to match the way you use materials and equipment. Keep your work area clean and clear for the materials that you typically use and place the items that you use most frequently, such as the computer mouse or telephone, within the easiest reach.

Equipment layout and setup play a large role in your working posture. The following topics describe how to optimize equipment setup to achieve and maintain good working posture.

# Positioning your monitor

Position and adjust your computer monitor for comfortable viewing by considering the following items:

- Recommended viewing distance between the eye and the monitor screen is I.5x
  the diagonal of the screen. Solutions in meeting this required distance in cramped
  office situations include pulling desk away from wall or divider to make room
  for monitor, using flat panel or compact displays placing the monitor in the desk
  corner, or placing the keyboard in an adjustable drawer to create a deeper working
  surface.
- Monitor height: Position the monitor so your head and neck are in a comfortable and neutral (vertical, or upright) position. If your monitor does not have height adjustments, you might have to place books or other sturdy objects under the base of the monitor to achieve the desired height. A general guideline is to position the monitor such that the top of the screen is at or slightly below your eye-height when you are comfortably seated. However, be sure to optimize your monitor height so the line of site between your eyes and the center the monitor suits your preferences for visual distance and comfortable viewing when your eye muscles are in a relaxed state.
- **Tilt:** Adjust the tilt of your monitor to optimize the appearance of the screen content and to accommodate your preferred head and neck posture.
- **General location:** Position your monitor to avoid glare or reflections on the screen from overhead lighting or nearby windows.

The following are some other tips for comfortable viewing of your monitor:

- Use adequate lighting for the type of work you are performing.
- Use the monitor brightness, contrast controls, if equipped to optimize the image on your screen to meet your visual preferences.
- Keep your monitor screen clean so you can focus on the screen's contents.

Any concentrated and sustained visual activity can be tiring for your eyes. Be sure to periodically look away from your monitor screen and focus on a far object to allow your eye muscles to relax. If you have questions on eye fatigue or visual discomfort, consult a vision care specialist for advice.

# Quick tips for healthy work habits

The following information is a summary of some important factors to consider to help you remain comfortable and productive while you use your computer.

- Good posture starts with equipment setup: The layout of your work area and the setup of your computer equipment have a large effect on your posture while using your computer. Be sure to optimize the position and orientation of your equipment by following the tips outlined in "Arranging your work area" on page 2-1 so you can maintain a comfortable and productive posture. Also, be sure to use the adjustment capabilities of your computer components and office furniture to best suit your preferences now and as your preferences change over time.
- Minor changes in posture can help avoid discomfort: The longer you sit and
  work with your computer, the more important it is to observe your working posture.
  Avoid assuming any one posture for an extended period of time. Periodically make
  minor modifications in your posture to help deter any discomforts that might arise.
  Make use of any adjustments that your office furniture or equipment provide to
  accommodate changes in posture.
- Short, periodic breaks help ensure healthy computing: Because computing is
  primarily a static activity, it is particularly important to take short breaks from your
  work. Periodically, stand up from your work area, stretch, walk for a drink of water,
  or otherwise take a short break from using your computer. A short break from work
  gives your body a welcome change in posture and helps to ensure you remain
  comfortable and productive while you do work.

# Adjusting your monitor image

This section describes the control features to adjust your monitor image.

# Using the direct access controls

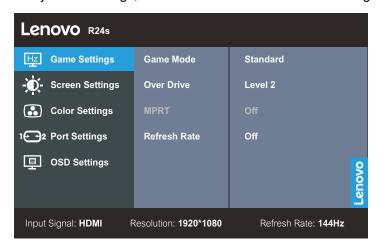
The direct access controls can be used when the On Screen Display (OSD) is not displayed.

Table 2-1. Direct access controls

|          | Icon   | Control  | Description  |
|----------|--|--|--|
|          |  | Exit   | Exit from menu and return before menu  |
| 1        | ◆  | DDC/CI   | Press and hold for 10 seconds to enable or disable the DDC/CI function   |
|          | ¹€2 Input Change   |  | It is a shortcut for directly opening the menu of source-selecting while there is no OSD on the screen.  |
| 2        |  | Increase   | Press to increase current values on adjustment bar.  |
| <b>†</b> | Up   | Press to move lighting-indicator on main menu up from active item to last one. Press to choose last OSD item When lighting-indicator is on the first OSD item. |  |
|          | <del>'</del> Ö-  | Brightness   | It is a shortcut for directly opening the adjustment<br>bar of brightness while there is no OSD on the<br>screen.  |
| 3        |  | Decrease   | Press to decrease current values on adjustment bar.  |
| +        |  | Down   | Press to move lighting-indicator on main menu down from active item to next one. Press to choose first OSD item When lighting-indicator is on the last OSD item. |
| 4        | on the screen . Press and hold for 10 seconds to Lock/un |  | Press and hold for 10 seconds to Lock/un-Lock  |
| 4        |  | Enter  | Press to enter next level on main menu or sub menu , or return back to previous level while on adjustment bar.   |

## Using the On-Screen Display (OSD) controls

To adjust the settings, the user controls can be viewed through the OSD.



#### To use the controls:

- 1. Press joystick center to open the main OSD menu.
- 2. Use ↑ or ↓ to move among the icons. Select an icon and press ← to access that function. If there is a sub-menu, you can move between options using ↑ or ↓ , then press ← to select that function. Use ↑ or ↓ to make adjustments. Press ← to save.
- 3. Press  $\bigcirc$  to move backwards through the sub-menus and exit from the OSD.
- 4. Press and hold ← for 10 seconds to lock the OSD. This will prevent accidental adjustments to the OSD. Press and hold ← for 10 seconds to unlock the OSD and allow adjustments to the OSD.

Table 2-2. OSD functions

| OSD Icon on<br>Main Menu | Sub menu            |                                 | Description                  | Controls and Adjustments |
|--------------------------|---------------------|---------------------------------|------------------------------|--------------------------|
|                          |                     | Standard                        |                              | _                        |
|                          |                     | FPS1                            |                              |                          |
|                          |                     | FPS2                            |                              |                          |
|                          | Game Mode           | Racing                          |                              |                          |
|                          |                     | RTS                             |                              |                          |
|                          |                     | Game 1                          |                              |                          |
|                          |                     | Game 2                          |                              | All input signals        |
| Game Settings            |                     | Off                             |                              |                          |
| Gaine Settings           |                     | Level 1                         |                              |                          |
|                          | Over Drive          | Level 2                         |                              |                          |
|                          |                     | Level 3                         |                              |                          |
|                          |                     | Level 4                         |                              |                          |
|                          | MPRT                | On/Off                          |                              |                          |
|                          | MediaSync           | Auto/Off                        |                              | Only for DP port         |
|                          | Refresh Rate<br>Num | Off/Left Top/Right              | Top/Left Bottom/Right Bottom | All input signals        |
|                          | Brightness          | Adjust bar(0-100)               |                              |                          |
|                          | Contrast            | Adjust bar(0-100)               |                              |                          |
|                          | DCR                 | On/Off                          |                              | All input signals        |
|                          | HDR 10              | Auto/Off                        |                              |                          |
|                          | Dark Boost          | Level 1/Level 2/Level 3/Level 4 |                              |                          |
| Screen                   | Cooling Mode        | Original AR                     |                              |                          |
| Settings                 | Scaling Mode        | Full Screen                     |                              |                          |
|                          | Sharpness           | Adjust bar(0-100)               |                              |                          |
|                          | Relative Gamma      | -0.4/-0.2/Default/+             | 0.2/+0.4/Off                 |                          |
|                          |                     | Auto                            |                              | Only for UDM             |
|                          | Video range         | Full range 0-255                |                              | Only for HDMI<br>port    |
|                          |                     | Limited range 16-235            |                              | port                     |
|                          |                     | DCI-P3                          |                              |                          |
|                          |                     | sRGB                            |                              |                          |
|                          |                     | Warm                            |                              |                          |
|                          | Calan Tanan         | Neutral                         |                              |                          |
| Color Settings           | Color Temp          | Cool                            |                              | All input signals        |
|                          |                     |                                 | Red: Adjust bar(0-100)       |                          |
|                          |                     | User                            | Green: Adjust bar(0-100)     | 1                        |
|                          |                     | Blue: Adjust bar(0-100)         |                              | 1                        |
|                          | Saturation          | Adjust bar(0-100)               |                              |                          |
|                          |                     | Auto switch input               |                              | All input signals        |
|                          | Input Signal        | DP                              |                              |                          |
| Dort Cottings            |                     | HDMI                            |                              |                          |
| Port Settings            | DD Calaat           | DP 1.1                          |                              | Only for DP port         |
|                          | DP Select           | DP 1.2                          |                              |                          |

| OSD Icon on<br>Main Menu | Sub menu              | Description              | Controls and Adjustments |
|--------------------------|-----------------------|--------------------------|--------------------------|
|                          |                       | Model                    |                          |
|                          |                       | Firmware                 |                          |
|                          | Information           | Serial Number            |                          |
|                          | IIIIOIIIIalioii       | HDR                      |                          |
|                          |                       | Mode                     |                          |
|                          |                       | Format                   |                          |
|                          |                       | English                  |                          |
|                          |                       | French (Français)        |                          |
|                          |                       | Italian (Italiano)       |                          |
|                          |                       | 简体中文                     |                          |
|                          | Language              | Spanish (Español)        |                          |
|                          |                       | Japanese (日本语)           |                          |
|                          |                       | German (Deutsch)         |                          |
|                          |                       | Russian (Русский)        | All input signals        |
| Menu Settings            |                       | Ukraine (Українська)     | All input signals        |
|                          |                       | Thai (ไทย)               |                          |
|                          |                       | 繁體中文                     |                          |
|                          | Button Repeat<br>Rate | Off                      |                          |
|                          |                       | Default                  |                          |
|                          | Nato                  | Slow                     |                          |
|                          | LED Indicator         | On/Off                   |                          |
|                          | OSD Timeout           | Adjust bar(5-60)         |                          |
|                          | Menu Horizontal       | Adjust bar(0-100)        |                          |
|                          | Menu Vertical         | Adjust bar(0-100)        |                          |
|                          | Transparency          | Adjust bar(0-100)        |                          |
|                          | DDC/CI                | On/Off                   |                          |
|                          | Reset All Settings    | Cancel                   |                          |
| 1 Coct All Octilings     |                       | Factory Reset            |                          |
| Input: HDMI Re           |                       | Resolution:1920*1080 Ref | resh Rate: 144Hz         |

## Selecting a supported display mode

The display mode the monitor uses is controlled by the computer. Therefore, refer to your computer documentation for details on how to change display modes.

The image size, position and shape might change when the display mode changes. This is normal and the image can be readjusted using automatic image setup and the image controls.

Unlike CRT monitors, which require a high refresh rate to minimize flicker, LCD or Curved Panel technology is inherently flicker-free.

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.

**Note:** If your system has previously been used with a CRT monitor and is currently configured to a display mode outside the range of this monitor, you may need to reattach the CRT monitor temporarily until you have re-configured the system; preferably to 1920 x 1080 at 144 Hz, which is the Native Resolution Display mode.

The display modes shown below have been optimized at the factory.

Table 2-3. Factory set display modes

| Timing      | Refresh rate(Hz)              |
|-------------|-------------------------------|
| 640 x 480   | 60 Hz, 67 Hz,72 Hz, 75 Hz     |
| 720 x 400   | 70 Hz                         |
| 800 x 600   | 60 Hz, 72 Hz, 75 Hz           |
| 832 x 624   | 75 Hz                         |
| 1024 x 768  | 60 Hz, 70 Hz, 75 Hz           |
| 1280 x 1024 | 60 Hz, 75 Hz                  |
| 1366 x 768  | 60 Hz                         |
| 1440 x 900  | 60 Hz, 75 Hz                  |
| 1600 x 900  | 60 Hz, 75 Hz                  |
| 1680 x 1050 | 60 Hz, 75 Hz                  |
| 1920 x 1080 | 60 Hz                         |
| 1920 x 1080 | 75 Hz, 100 Hz, 120 Hz, 144 Hz |
| 480p        | 60 Hz                         |
| 576p        | 50 Hz                         |
| 720p        | 50 Hz, 60 Hz                  |
| 1080p       | 50 Hz, 60 Hz, 100 Hz, 120 Hz  |

Note: 1440 x 900 75 Hz will be removed when R24s selects HDR Auto at HDMI.

# **Understanding power management**

Power management is invoked when the computer recognizes that you have not used your mouse or keyboard for a user-definable period. There are several states as described in the table below.

For optimal performance, switch off your monitor at the end of each working day, or whenever you expect to leave it unused for long periods during the day.

Table 2-4. Power indicator

| State           | Power Indicator | Screen | Restoring Operation  |  |
|-----------------|-----------------|--------|--|--|
| On              | White           | Normal |  |  |
| Standby/Suspend | Amber           | Blank  | Press a key or move the mouse  |  |
|                 |                 |        | There may be a slight delay before the image reappears.                      |  |
|                 |                 |        | <b>Note:</b> Standby also occurs if there is no image output to the monitor. |  |
| Off             | Off             | Blank  | Press the power button   |  |
|                 |                 |        | There may be a slight delay before the image reappears.                      |  |

# Caring for your monitor

Be sure to turn off the power before you perform any maintenance on the monitor.

#### Do not:

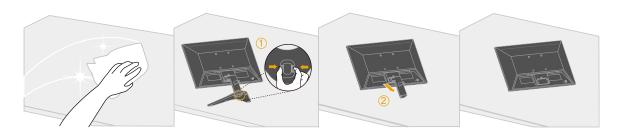
- · Apply water or liquid directly to your monitor.
- · Use solvents or abrasives.
- Use flammable cleaning materials to clean your monitor or any other electrical equipment.
- Touch the screen area of your monitor with sharp or abrasive items. This type of contact may cause permanent damage to your screen.
- Use any cleaner which contains an anti-static solution or similar additives. This may harm the coating of the screen area.

#### Do:

- Lightly dampen a soft cloth with water and use this to gently wipe the covers and the screen.
- Remove grease or finger marks with a damp cloth and a little mild detergent.

## Detaching the monitor base and stand

- Step 1: Place the monitor on a soft and flat surface.
- Step 2: Remove the base and stand from the monitor.



# **Wall Mounting (Optional)**

Refer to the instructions that come with the base mounting kit. To convert your LCD display from a desk-mounted to a wall-mounted display, do the following:

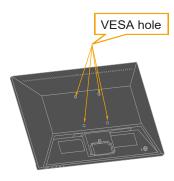
- Step 1: Verify that the Power button is turned Off, then disconnect the power cord.
- Step 2: Lay the LCD display face down on a towel or blanket.



Step 3: Remove the base from the monitor, refer to "Detaching the monitor base and stand".



Step 4: Attach the mounting bracket from the VESA compatible wall mounting kit (100mm x100mm distance), VESA Mounting Screw M4 x 10 mm.



Step 5: Attach the LCD display to the wall, following the instructions in the wallmounting kit.

Note: For use only with UL or CSA or GS-listed wall mount bracket with minimum weight/load bearing capacity of 9.0kg (19.84 lbs).

# **Chapter 3. Reference information**

This section contains monitor specifications, instructions to manually install the monitor driver, troubleshooting information, and service information.

# **Monitor specifications**

Table 3-1. Monitor specifications for type-model 68CBGAC2WW

|  | Γ  | т                      |
|--|--|------------------------|
| Dimensions   | Depth  | 184.7 mm (7.27 in.)    |
|  | Height   | 432.3 mm (17.02 in.)   |
|  | Width  | 539.1 mm (21.22 in.)   |
| Panel  | Size   | 23.8 in.               |
|  | Backlight  | LED                    |
|  | Aspect ratio   | 16:9                   |
| Stand  | Tilt   | -5° to 22°             |
| Weight   | Weight with stand assembly   | 3.5 kg (7.7 lbs)       |
|  | Weight without stand<br>assembly (For wall<br>mount or VESA mount<br>considerations - no cables) | 3.0 kg (6.6 lbs)       |
| VESA mount   | Supported 100 mm x 100 mm (3.94 in. x 3.94)  |                        |
| Image  | Viewable image size  | 604.8 mm (23.8 inch)   |
|  | Maximum height   | 296.5 mm (11.67 inch)  |
|  | Maximum width  | 527.0 mm (20.75 inch)  |
|  | Pixel pitch  | 0.2745 mm(0.01 inch)   |
| Power input  | Supply voltage   | 100-240V AC<br>50-60Hz |
|  | Max supply current   | 1.2 A                  |
| Power consumption  | Normal operation   | <28.5 W (max)          |
|  |  | <12.0 W (typical)      |
| Note: Power  | Standby/Suspend  | <0.5 W                 |
| consumption figures<br>are for the monitor<br>and the power supply<br>combined | Off  | <0.3 W                 |

Table 3-1. Monitor specifications for type-model 68CBGAC2WW

| Video input (HDMI)         | Interface                  | НДМІ   |  |
|----------------------------|----------------------------|--|--|
| , , ,                      | Input signal               | VESA TMDS (Panel Link™)                                |  |
|                            | Horizontal addressability  | 1920 pixels (max)                                      |  |
|                            | Vertical addressability    | 1080 lines (max)                                       |  |
|                            | Clock frequency            | 340 MHz  |  |
| Video input (DP)           | Interface                  | DP   |  |
|                            | Input signal               | VESA TMDS (Panel Link™)                                |  |
|                            | Horizontal addressability  | 1920 pixels (max)                                      |  |
|                            | Vertical addressability    | 1080 lines (max)                                       |  |
|                            | Clock frequency            | 340 MHz  |  |
| Communications             | VESA DDC CI                |  |  |
| Supported Display<br>Modes | Horizontal frequency(HDMI) | 28 kHz - 163 kHz                                       |  |
|                            | Vertical frequency(HDMI)   | 48 Hz - 144 Hz   |  |
|                            | Horizontal frequency(DP)   | 163 kHz - 163 kHz                                      |  |
|                            | Vertical frequency(DP)     | 48 Hz - 144 Hz   |  |
|                            | Native Resolution          | 1920 x 1080 @ 144 Hz(DP)<br>1920 x 1080 @ 144 Hz(HDMI) |  |
| Temperature                | Operating                  | 0° to 40° C (32° to 104° F)                            |  |
|                            | Storage                    | -20° to 60° C (-4° to 140° F)                          |  |
|                            | Shipping                   | -20° to 60° C (-4° to 140° F)                          |  |
| Humidity                   | Operating                  | 8% to 80% non-condensing                               |  |
|                            | Storage                    | 5% to 95% non-condensing                               |  |
|                            | Shipping                   | 5% to 95% non-condensing                               |  |

# Troubleshooting

If you have a problem setting up or using your monitor, you might be able to solve it yourself. Before calling your dealer or Lenovo, try the suggested actions that are appropriate to your problem.

Table 3-2. Troubleshooting

| Problem   | Possible cause   | Suggested action  | Reference   |
|---|--|---|---|
| The words "Input not supported" are shown on the screen, and the power indicator is flashing green. | The system is set to a display mode which is not supported by the monitor.   | If you are replacing an old monitor, reconnect it and adjust the display mode to within the specified range for your new monitor.  If using a Windows system, restart the system in safe mode, then select a supported display mode for your computer.  If these options do not work, contact the Support Center. | "Selecting a supported display mode" on page 2-7          |
| The image quality is unacceptable.  | The video signal cable is not connected with the monitor or system completely.   | Be sure the signal cable is firmly plugged into the system and monitor.   | "Connecting and<br>turning on your<br>monitor"on page 1-4 |
|   | The color settings may be incorrect.   | Select another color setting from the OSD menu.   | "Adjusting your<br>monitor image"on<br>page 2-3           |
| The power indicator is not lit and there is no image.   | The monitor's power switch is not switched on. The power cord is loose or disconnected. There is no power at the outlet. | <ul> <li>Be sure the power cord is connected properly.</li> <li>Be sure the outlet has power.</li> <li>Power on the monitor.</li> <li>Try using another power cord.</li> <li>Try using another electrical outlet.</li> </ul>  | "Connecting and<br>turning on your<br>monitor"on page 1-4 |
| Screen is blank<br>and power<br>indicator is<br>amber.  | The monitor is in Standby / Suspend mode.  | <ul> <li>Press any key on the keyboard or move the mouse to restore operation.</li> <li>Check the Power Options settings on your computer.</li> </ul>   | "Understanding<br>power<br>management"on<br>page 2-8      |

Table 3-2. Troubleshooting

| Problem  | Possible cause  | Suggested action   | Reference   |
|--|---|--|---|
| The power indicator is orange, but there is no image.                                      | The video signal cable is loose or disconnected from the system or monitor.   | Be sure the video cable is connected with the system properly.   | "Connecting and<br>turning on your<br>monitor"on page 1-4     |
|  | The monitor brightness and contrast are at the lowest setting.  | Adjust the brightness and contrast setting on the OSD menu.  | "Adjusting your<br>monitor image"on<br>page 2-3               |
| One or more of the pixels appear discolored.   | This is a characteristic of the LCD technology and is not an LCD defect.  | If there are more than five pixels missing, contact the Support Center.  | Appendix A."Service<br>and Support"on<br>page A-1             |
| Fuzzy lines in text or a blurry image.     Horizontal or vertical lines through the image. | Image setup     has not been     optimized.     Your system     Display Properties     setting have not     been optimized. | Adjust the resolution settings on your system to match the native resolution for this monitor: 1920 x 1080 at 144 Hz.                    | "Adjusting your<br>monitor image"on<br>page 2-3               |
|  |   | Perform automatic image setup. If automatic image setup does not help, perform manual image setup.                                       | "Selecting a<br>supported display<br>mode"on page 2-7         |
|  |   | When working in the native resolution, you may find additional improvements by adjusting the Dots Per Inch (DPI) setting on your system. | See the Advanced section of your system's display properties. |

## Manually installing the monitor driver

Below are steps for manually installing the monitor driver in Microsoft Windows 10, Microsoft Windows 11.

- 1. Turn off the computer, all attached devices.
- 2. Ensure that the monitor is connected correctly.
- 3. Turn on the monitor and then the system unit. Allow your computer to start the Windows operating system.
- 4. From the Lenovo website https://pcsupport.lenovo.com/solutions/r24s, find the corresponding monitor driver and download it to a PC to which this monitor is connected (such as a desktop).
- 5. Right-click the Windows **Start** button on the desktop, then click **Device Manager**, and double click **Monitor**.
- 6. Double-click Generic Monitor.
- 7. Click the **Driver** tab.
- 8. Click **Update Driver**, and then click **Browse Computer to find the driver**.
- 9. Click Let me pick from a list of available divers on my computer.
- 10.Click the **Have Disk...** button. By clicking the **Browse** button, browse and point to the following path: **X:\Monitor Drivers\Windows** (where X indicates "the folder in which the downloaded driver is located" (such as a desktop)).
- 11. Select **R24s.inf** file, Click **Open** button. Click **OK** button.
- 12.In the new window, select R24s and click Next.
- 13. After the installation is complete, delete all downloaded files and close all Windows.
- 14.Restart the system. The system will automatically select the refresh rate and the corresponding color matching profile.

**Note:** On LCD monitors, unlike CRTs, a faster refresh rate does not improve display quality. Lenovo recommends using either  $1920 \times 1080$  at a refresh rate of 60 Hz, or  $640 \times 480$  at a refresh rate of 60 Hz.

## Getting further help

If you still can't solve your problem, please contact the Lenovo Support Center. For more information on contacting the Support Center, please see Appendix A."Service and Support"on page A-1

# **Appendix A. Service and Support**

The following information describes the technical support that is available for your product, during the warranty period or throughout the life of your product. Refer to the Lenovo Limited Warranty for a full explanation of Lenovo warranty terms.

## Registering your option

Register to receive product service and support updates, as well as free and discounted computer accessories and content. Go to: <a href="http://www.lenovo.com/register">http://www.lenovo.com/register</a>

# Online technical support

Online technical support is available during the lifetime of a product at: http://www.lenovo.com/support

Product replacement assistance or exchange of defective components also is available during the warranty period. In addition, if your option is installed in a Lenovo computer, you might be entitled to service at your location. A Lenovo technical support representative can help you determine the best alternative.

# Telephone technical support

Installation and configuration support through the Customer Support Center will be available until 90 days after the option has been withdrawn from marketing. After that time, the support is cancelled, or made available for a fee, at Lenovo's discretion. Additional support is also available for a nominal fee.

Before contacting a Lenovo technical support representative, please have the following information available: option name and number, proof of purchase, computer manufacturer, model, serial number and manual, the exact wording of any error message, description of the problem, and the hardware and software configuration information for your system.

Your technical support representative might want to walk you through the problem while you are at your computer during the call.

Telephone numbers are subject to change without notice. The most up-to-date telephone list for Lenovo Support is always available at: http://consumersupport.lenovo.com

| Country or Region | Telephone Number   |  |
|-------------------|--|--|
| Argentina         | 0800-666-0011<br>(Spanish, English)                        |  |
| Australia         | 1-800-041-267<br>(English)                                 |  |
| Austria           | 0810-100-654 (For local rate)<br>(German)                  |  |
| Belgium           | Warranty service and support: 02-339-36-11 (Dutch, French) |  |
| Bolivia           | 0800-10-0189<br>(Spanish)                                  |  |

# **Appendix B. Notices**

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systems. Furthermore, some measurements may have been estimated through extrapolation. Actual results may vary. Users of this document should verify the applicable data for their specific environment.

## **Recycling information**

Lenovo encourages owners of information technology (IT) equipment to responsibly recycle their equipment when it is no longer needed. Lenovo offers a variety of programs and services to assist equipment owners in recycling their IT products. For information on recycling Lenovo products, go to:

http://www.lenovo.com/recycling

環境配慮に関して

本機器またはモニターの回収リサイクルについて

企業のお客様が、本機器が使用済みとなり廃棄される場合は、資源有効利用促進法の規定により、産業廃棄物として、地域を管轄する県知事あるいは、政令市長の許可を持った産業廃棄物処理業者に適正処理を委託する必要があります。また、弊社では資源有効利用促進法に基づき使用済みパソコンの回収および再利用・再資源化を行う「PC 回収リサイクル・サービス」を提供しています。詳細は、

https://www.lenovo.com/jp/ja/services\_warranty/recycle/pcrecycle/をご参照ください。

また、同法により、家庭で使用済みとなったパソコンのメーカー等による回収再資源化が 2003 年 10 月 1 日よりスタートしました。詳細は、https://www.lenovo.com/jp/ja/services\_warranty/recycle/pcrecycle/をご参照ください。

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本機器のプリント基板等には微量の重金属(鉛など)が使用されています。使用後は適切な処理を行うため、上記「本機器またはモニターの回収リサイクルについて」に従って廃棄してください。

#### Collecting and recycling a disused Lenovo computer or monitor

If you are a company employee and need to dispose of a Lenovo computer or monitor that is the property of the company, you must do so in accordance with the Law for Promotion of Effective Utilization of Resources. Computers and monitors are categorized as industrial waste and should be properly disposed of by an industrial waste disposal contractor certified by a local government. In accordance with the Law for Promotion of Effective Utilization of Resources, Lenovo Japan provides, through its PC Collecting and Recycling Services, for the collecting, reuse, and recycling of disused computers and monitors. For details, visit the Lenovo Web site at https://www.lenovo.com/jp/ja/services\_warranty/recycle/pcrecycle/ . Pursuant to the Law for Promotion of Effective Utilization of Resources, the collecting and recycling of home-used computers and monitors by the manufacturer was begun on October 1, 2003. This service is provided free of charge for home-used computers sold after October 1, 2003. For details, visit the Lenovo Web site at https://www.lenovo.com/jp/ja/services\_warranty/recycle/personal/ .

#### Disposing of Lenovo computer components

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Use only the power cords and power adapters supplied by the product manufacture Do not use the ac power cord for other devices.