Dell C1422H

User's Guide

Notes, Cautions and Warnings

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.

WARNING: A WARNING indicates a potential for property damage, personal injury, or death.

Contents

Troubleshooting

About your monitor

Package contents

Your monitor ships with the components indicated in the table. Ensure that you have received all the components and see **Contact Dell** if anything is missing.

📝 **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
	USB Type-C cable (C to C)
	Sleeve
	◆ Quick Start Guide ◆ Safety and Regulatory Information

Product features

The Dell C1422H monitor has an active matrix, Thin-Film Transistor (TFT), Liquid Crystal Display (LCD), anti-static, and LED backlight.

The monitor features include:

- 35.56 cm (14.0 in.) diagonal viewable area display (measured diagonally), 1920 x 1080 resolution, with full-screen support for lower resolutions
- Viewing angles of 178 degrees in horizontal and vertical directions
- Dynamic contrast ratio (700:1)
- Digital connectivity with USB Type-C
- Dual USB Type-C port supports DP Alternate Mode, power pass through and power delivery 65W
- Tilt adjustment capability
- Plug and play capable if supported by your computer
- On-Screen Display (OSD) adjustments for easy setup and screen optimization
- ≤ 0.3 W in Standby Mode
- Optimize eye comfort with ComfortView
- Arsenic-free glass and mercury-free panel
- BFR/PVC-Reduced (the circuit boards inside your monitor are made using BFR/PVC-free laminates)
- RoHS Compliant
- EPEAT registered where applicable. EPEAT registration varies by country See https://www.epeat.net for registration status by country
- Energy Star® Certified

⚠️ **WARNING: The possible long-term effects of blue light emission from the monitor may cause damage to the eyes, including eye fatigue, digital eye strain, and so on. ComfortView feature is designed to reduce the amount of blue light emitted from the monitor to optimize eye comfort.**

Identifying features and controls

Label	Description	Use
1	Power On/Off button (with LED indicator)	To turn the monitor On or Off. Solid white light indicates the monitor is turned on and functioning normally. Blinking white light indicates the monitor is in Standby Mode.
2	USB Type-C (support Alt mode DP 1.2 and PD function)	Connect to your portable computer/phone using the USB Type-C cable (C to C).
3		**Note: USB data not supported.**
4	Function buttons	To access the OSD menu and change the settings if required. For more information, see **Using the front panel control**.

Back view and label information
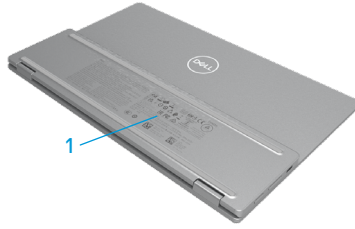
Label	Description	Use
1	Barcode, serial number, service tag, and regulatory information	Refer to this label if you need to contact Dell for technical support. List of regulatory approvals.

Monitor specifications

Model	C1422H
Screen type	Active matrix-TFT LCD
Panel type	In-Plane Switching
Viewable area	
Diagonal	355.60 mm (14.00 in.)

Active area:
  Horizontal
  Vertical
Area
	
	309.31 mm (12.18 in.)
	173.99 mm (6.85 in.)
	53816.85 mm^2 (83.42 in.^{2})

Pixel pitch	0.1611 mm
Pixel per inch (PPI)	158

Viewing angle:
  Horizontal
  Vertical
	
	178° (typical)
	178° (typical)

Brightness	300 cd/m^2 (typical)
Contrast ratio	700 to 1 (typical)
Faceplate coating	Hard coating (H), Anti-Glare
Backlight	LED light bar system
Response time (trise + tfall)	6 ms
Color depth	16.7 million colors
Color gamut	72% NTSC (CIE1931)
Dell display manager compatibility	No
Connectivity	2x USB Type-C (Alt Mode DP1.2, HBR, HDCP 1.4)
Bezel width (edge of monitor to active area)	- Top: 6.54 mm - Left/Right: 6.53 mm - Bottom: 22.16 mm
Tilt angle	10° to 90°

Resolution specifications

Model	C1422H
Horizontal scan range	30 kHz to 80 kHz (automatic)
Vertical scan range	56 Hz to 61 Hz (automatic)
Maximum preset resolution	1920 x 1080 at 60 Hz

Preset display modes

Display mode	Horizontal frequency (kHz)	Vertical frequency (Hz)	Pixel clock (MHz)	Sync polarity (Horizontal/ Vertical)
VESA, 640 x 480	31.5	60.0	25.2	-/-
VESA, 800 x 600	37.9	60.3	40.0	+/+
VESA, 1024 x 768	48.4	60.0	65.0	-/-
VESA, 1280 x 768	47.8	59.9	79.5	-/+
VESA, 1280 x 800	49.7	59.8	83.5	-/+
VESA, 1280 x 1024	64.0	60.0	108.0	+/+
VESA, 1366 x 768	47.7	59.8	85.5	+/+
VESA, 1440 x 900	55.9	59.9	106.5	-/+
VESA, 1600 x 1200	75.0	60.0	162.0	+/+
VESA, 1680 x 1050	65.29	59.954	146.25	-/+
VESA, 1920 x1080	67.5	60.0	148.5	+/-

Electrical specifications

Model	C1422H
Video input signals	USB Type-C/DisplayPort, 600 mV for each differential line, 100 Ω input impedance per differential pair
Synchronization input signals	Separate horizontal and vertical synchronizations, polarity-free TTL level, SOG (Composite SYNC on green)
Power Consumption	0.3 W (Off Mode)[1] 0.3 W (Standby Mode)[1] 6 W (On Mode)[1] 7.5 W (Max)[2] 4.66 W (P_{on})[3] 22.86 kWh (TEC)[3]

[1] As defined in EU 2019/2021 and EU 2019/2013.

[2] Max brightness and contrast setting with maximum power loading on all USB ports.

[3] P_{on} : Power consumption of On Mode as defined in Energy Star 8.0 version.

TEC: Total energy consumption in kWh as defined in Energy Star 8.0 version.

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.

NOTE: This monitor is ENERGY STAR certified.

This product qualifies for ENERGY STAR in the factory default settings (ComfortView = OFF, Brightness = 75%).
Changing the factory default settings or enabling other features may increase power consumption that could exceed the ENERGY STAR specified limit.

Physical characteristics

Model	C1422H
Signal cable type	USB Type-C (C to C) 1.0 m cable
NOTE: Dell monitors are designed to work optimally with the video cables that are shipped with your monitor. As Dell does not have control over the different cable suppliers in the market, the type of material, connector and process used to manufacture these cables, Dell does not guarantee video performance on cables that are not shipped with your Dell monitor.	
Dimensions (with stand):	
Height	202.69 mm (7.98 in.)
Width	322.37 mm (12.69 in.)
Depth	14.30 mm (0.56 in.)
Dimensions (without stand):	
Height	202.69 mm (7.98 in.)
Width	322.37 mm (12.69 in.)
Depth	4.95 mm (0.19 in.)
Stand dimensions:	
Height	89.17 mm (3.51 in.)
Width	322.37 mm (12.69 in.)
Depth	8.85 mm (0.35 in.)
Weight:	
With packaging	1.12 kg (2.47 lb.)
With cable	0.64 kg (1.41 lb.)
Without cable	0.59 kg (1.30 lb.)

Environmental characteristics

Model	C1422H
Temperature	
Operating	0°C to 40°C (32°F to 104°F)
Non-operating Storage/Shipping	-20°C to 60°C (-4°F to 140°F)
Humidity	
Operating	10% to 80% (non-condensing)
Non-operating Storage/Shipping	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	25.59 BTU/hour (maximum) 20.47 BTU/hour (typical)

Pin assignments

USB Type-C port
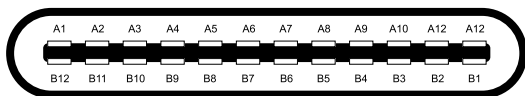
Pin	Signal	Pin	Signal
A1	GND	**B12**	GND
A2	SSTXp1	**B11**	SSTXp1
A3	SSTXn1	**B10**	SSTXn1
A4	VBUS	**B9**	VBUS
A5	CC1	**B8**	SSU2
A6	Dp1	**B7**	Dn1
A7	Dn1	**B6**	Dp1
A8	SBU1	**B5**	CC2
A9	VBUS	**B4**	VBUS
A10	SSRXn2	**B3**	SSRXn2
A11	SSRXp2	**B2**	SSRXp2
A12	GND	**B1**	GND

Plug and play capability

You can install the monitor in any Plug and Play-compatible system. The monitor automatically provides the computer with its Extended Display Identification Data (EDID) using Display Data Channel (DDC) protocols so 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 your monitor**.

LCD monitor quality and pixel policy

During the LCD Monitor manufacturing process, it is normal 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 about Dell Monitor Quality and Pixel Policy, see Dell Support site at https://www.dell.com/support/monitors.

Maintenance guidelines
Cleaning your monitor

⚠ **WARNING: Before cleaning the monitor, unplug the monitor power cable from the electrical outlet.**

⚠ **CAUTION: Read and follow the Safety instructions before cleaning the monitor.**

For best practices, follow these instructions while unpacking, cleaning, or handling your monitor:

- To clean your screen, lightly dampen a soft and clean cloth with water. If possible, use a special screen-cleaning tissue or solution suitable for the anti-static coating. Do not use benzene, thinner, ammonia, abrasive cleaners, or compressed air.
- Use a lightly-dampened cloth to clean the monitor. Avoid using detergent of any kind as some detergents leave a milky film on the monitor.
- If you notice white powder when you unpack your monitor, wipe it off with a cloth.
- Handle your monitor with care as the black-colored monitor may get scratched.
- To help maintain the best image quality on your monitor, use a dynamically changing screen saver and turn off your monitor when not in use.

Setting up the monitor

Sleeve

The protective sleeve shipped with the monitor can protect your monitor from damage when shipping or storage.
The following illustrations show how to use the protective sleeve.
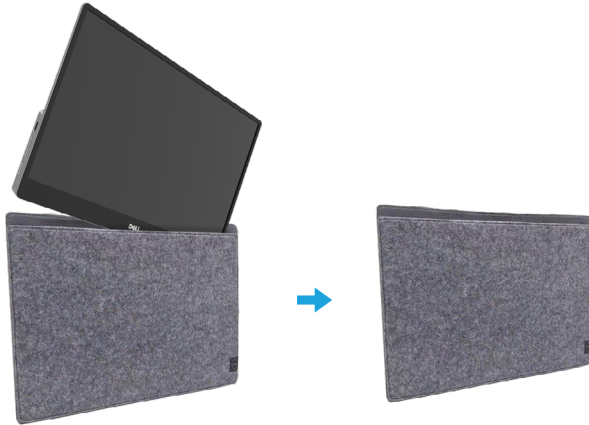
Tilt adjustment

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

80˚

Connecting your monitor

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

📝 **NOTE: Do not connect all cables to the computer at the same time.**

To connect your monitor to the computer:
1. Turn off your computer and disconnect the power cable.
2. There are 2 kinds of usage for the C1422H: normal usage and charging usage.
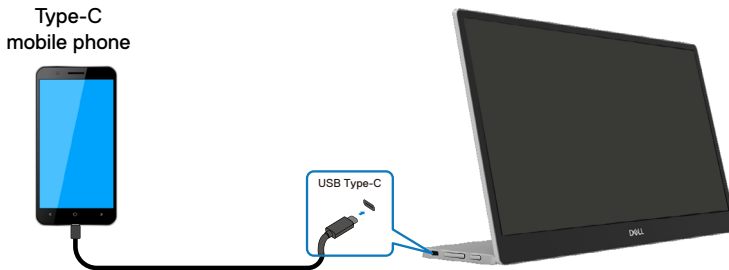
Normal usage

There are 2 kinds of normal usage for C1422H: notebook and mobile phone.
1. Connect the USB Type-C port of notebook and C1422H with a USB Type-C cable.
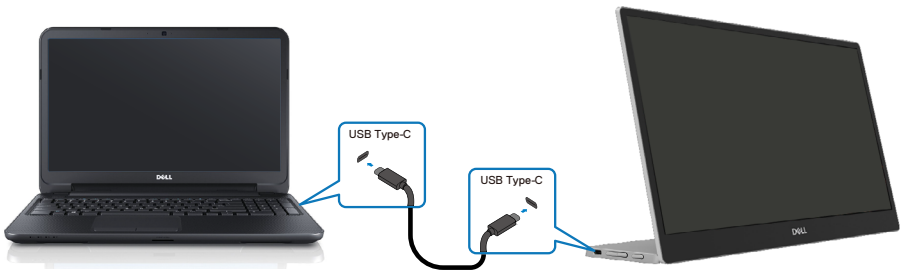
2. Connect the USB Type-C port of mobile phone and C1422H with a USB Type-C cable.

📝 **NOTE: For normal usage, devices of notebook and mobile phone that connect to C1422H need to support video signal and power output of 7.5W(5V/1.5A). When you encounter abnormal display condition, please check your devices to see if they support USB Type-C Alt-mode display and PD2.0 or above. After checking, please re-connect and try again.**

📝 **NOTE: It is suggested to connect to power adapter when connecting to mobile phone.**

Plug in usage

There are 2 kinds of plug in usage for C1422H: notebook and mobile phone with power adapter.

1. Connect Type-C power adapter to C1422H and connect C1422H to the notebook with a USB Type-C cable. (Electronically marked cable, current rating: 5A)
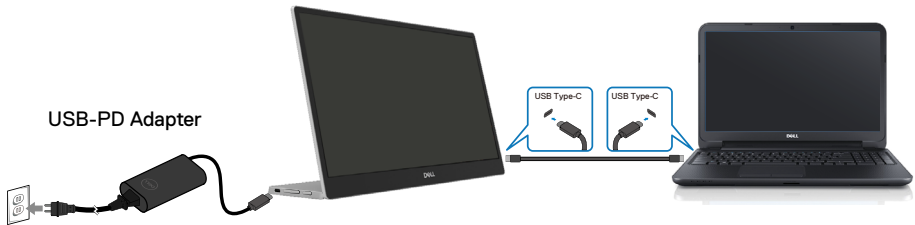
2. Connect Type-C power adapter to C1422H and connect C1422H to the mobile phone with a USB Type-C cable.

📝 **NOTE: When you encounter abnormal charging condition, please check your power capacity of power adapter connected with C1422H and make sure it is enough for C1422H and other devices. In order to use the monitor smoothly, please refer to the Preset display modes and Power management.**

📝 **NOTE: When disconnecting the power adapter from the C1422H, a blank screen will appear.**

NOTE:When connecting 90W or above adapter, Maximum power delivery output from the monitor is 65W.

When connecting 65W adapter, Maximum power delivery output from the monitor is 45W.

When connecting 45W adapter, Maximum power delivery output from the monitor is 30W.

When connecting <30W adapter, Maximum power delivery output from the monitor is 7.5W.

The Dell monitor C1422H can only output a maximum of 65W to the system. If the system requires 90W or above, it will need 90W or above adapters connected to the system or the battery will drain during usage.

Connecting with Docking device

Not supported configuration

USB-PD Adapter

USB Type-C

USB Type-C

Supported Configuration
Normal usage

USB Type-C

USB Type-C   USB Type-C

Plug in usage

USB Type-C

USB Type-C   USB Type-C

USB-PD Adapter

USB-PD Adapter

USB Type-C

USB Type-C   USB Type-C

Operating your monitor

Turning on the monitor

Press the button to turn on the monitor.

Using the front panel control

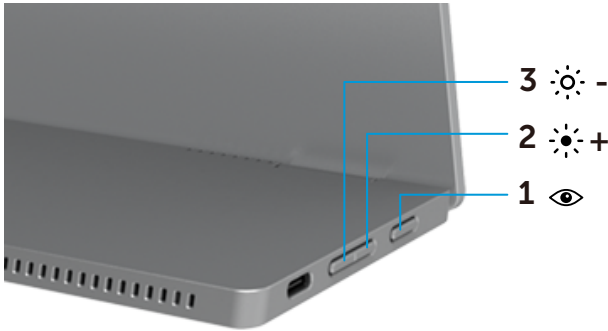Use the control button on the edge of the monitor to adjust the image being displayed.

The following table describes the control button:

	Control button	Description
1	⏻ Power button (with power-status light)	To turn the monitor On or Off. Solid white light indicates that the monitor is turned on and functioning normally. Blinking white light indicates that the monitor is in Standby Mode.

OSD controls

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

	Control buttons	Description
1	👁 ComfortView	To launch the On-Screen Display (OSD) menu, or to access the list of items/options of a menu item. For more information, see **Accessing the OSD menu**. • Press key to call out ComfortView OSD menu. • Press key to switch ComfortView ON/OFF.
2	☀ + Brightness/ Up/[+]	Use the Up button to increase values or move up in a menu. • Press key to call out Brightness OSD menu. • Press [+] to increase current value of bar.
3	☀ – Brightness/ Down/[—]	Use the Down button to decrease values or move down in a menu. • Press key to call out Brightness OSD menu. • Press [-] to decrease current value of bar.

Using the On-Screen Display (OSD) menu

ComfortView 👁

Decrease the level of blue light emitted from the screen to make viewing more comfortable for your eyes.

The possible long-term effects of blue light emission from the monitor may cause damage to the eyes such as eye fatigue and eye strain.

Press to enable/disable ComfortView.

Accessing the OSD menu

📝 **NOTE: Any changes you make are automatically saved when you move to another menu, exit the OSD menu, or wait for the OSD menu to close automatically.**

1. Press key to call out ComfortView OSD menu.

   • Press 👁 key to switch ComfortView ON/OFF.

   ComfortView = ON

   ComfortView = OFF
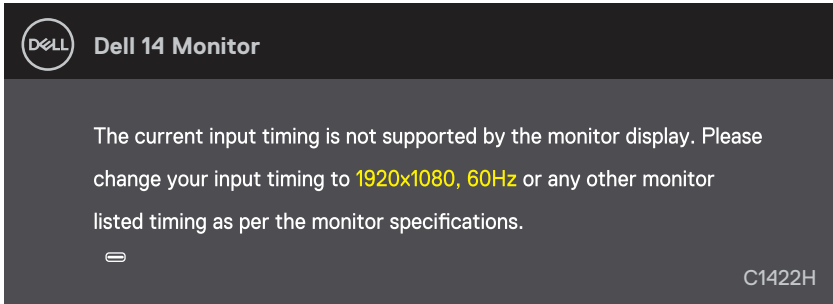

2. Press key to call out Brightness OSD menu.

   • Press the 🔺 button to increase the brightness and press the 🔻 button decrease brightness (min. 0; max. 100).
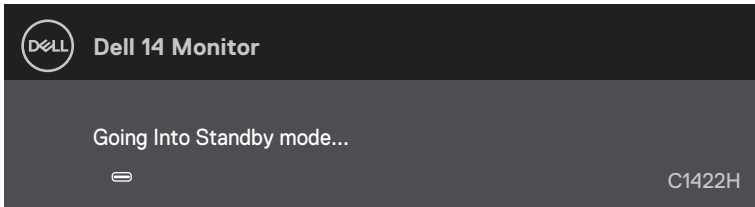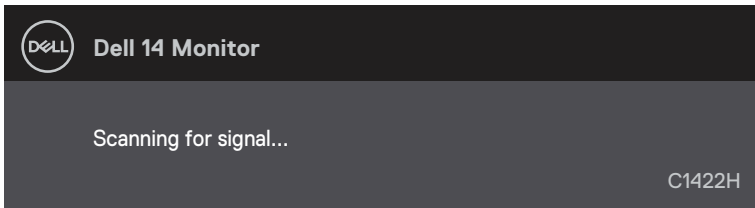

📝 **Note: No Contrast adjustment.**
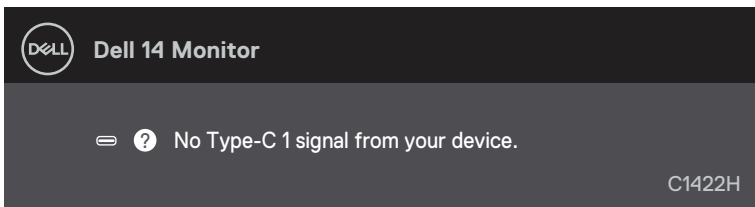
OSD warning messages

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

When the monitor enters Standby mode, the following message appears.

If USB Type-C cable is connected but without video signal, a floating dialog box as shown below appears.

See **Troubleshooting** for more information.

Setting up display resolution on your monitor

Setting display resolution to 1920 x 1080

For best performance, set the display resolution to 1920 x 1080 pixels by performing the following steps:

In Windows 7:
1. Right-click on the desktop and click **Screen Resolution.**
2. Click the drop-down menu of the **Screen Resolution** and select 1920 x 1080.
3. Click **OK**.

In Windows 8 or Windows 8.1:
1. Select the Desktop tile to switch to classic desktop.
2. Right-click on the desktop and click **Screen Resolution**.
3. Click the drop-down menu of the **Screen Resolution** and select 1920 x 1080.
4. Click **OK**.

In Windows 10:
1. Right-click on the desktop and click **Display Settings**.
2. Click **Advanced Display Settings**.
3. Click the drop-down menu under **Resolution** and select 1920 x 1080.
4. Click **Apply**.

If you do not see the recommended resolution as an option, you may need to update your graphics driver. Use one of the following methods to update the graphics driver:

Dell computer
1. Go to https://www.dell.com/support, enter your service tag, and download the latest driver for your graphics card.
2. After installing the drivers for your graphics adapter, attempt to set the resolution to 1920 x 1080 again.

📝 **NOTE: If you are unable to set the resolution to 1920 x 1080, please contact Dell to enquire about a graphics adapter that supports these resolutions.**

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 if 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 your computer.
2. Disconnect Type-C power adapter cable, computer USB Type-C cable from the monitor.
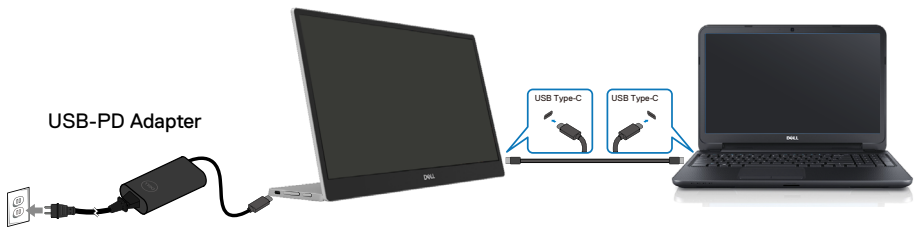
3. Connect Type-C power adapter cable to the monitor. This way, the computer does not have to be involved.
4. If the monitor is working correctly, it scans for signal and detects that there is no signal and the following message appears. While in self-test mode, the power LED remains white.
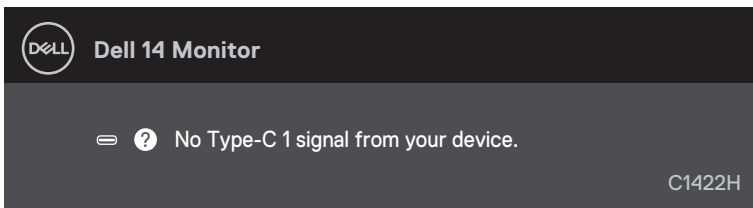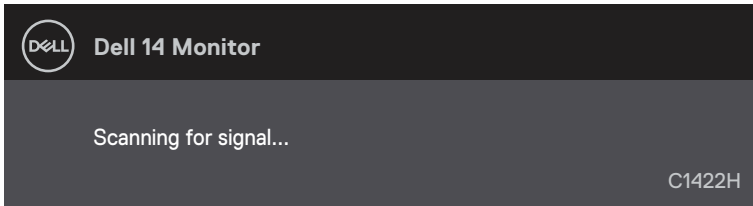
📝 **NOTE: These messages also appears during normal operation, when the computer USB Type-C cable is disconnected or damaged.**

5. Reconnect the computer USB Type-C cable, then turn on your computer wait for computer boot up is complete.

If your monitor remains dark after step 5, check your video controller and computer.

Built-in diagnostics

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 button 👁 for about 3 seconds and wait for a pop up diagnostic pattern.
3. Use button Up/[+] to switch pattern.
   A gray test pattern appears at the beginning of the diagnostic program.
4. Carefully inspect the screen for abnormalities.
5. Press button Up/[+] to change the test patterns.
6. Repeat steps 4 and 5 to inspect the display in red, green, blue, black, white and text screens.
7. When in White color test screen, check for white color uniformity and if there white color appears greenish/reddish, etc.
8. Press button Up/[+] to end the diagnostic program.

Common problems

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

Common symptoms	Possible solutions
No video/Power LED off	• Ensure that the video cable connecting the monitor and the computer is properly connected and secure. • Verify that the power outlet is functioning properly using any other electrical equipment. • Verify if the device required more than 65W power charging. • Ensure that the power button is pressed. • Ensure that the USB Type-C cable is not damage.
No video/Power LED on	• Increase brightness controls using the OSD. • Perform monitor self-test feature check. • Check for bent or broken pins in the video cable connector. • Verify if the USB Type-C interface of the device can support DP alternate mode. • Set Windows to Projection mode.
Poor focus	• Eliminate video extension cables. • Change the video resolution to the correct aspect ratio.
Missing pixels	• Cycle power On-off. • Pixel that is permanently off is a natural defect that can occur in LCD technology. • For more information about Dell Monitor Quality and Pixel Policy, see Dell Support site at **https://www.dell.com/support/monitors.**
Stuck-on pixels	• Cycle power On-off. • Pixel that is permanently off is a natural defect that can occur in LCD technology. • For more information about Dell Monitor Quality and Pixel Policy, see Dell Support site at: **https://www.dell.com/support/monitors.**
Brightness problems	• Adjust brightness controls using OSD.
Synchronization problems	• Perform monitor self-test feature check to determine if the scrambled screen appears in self-test mode. • Check for bent or broken pins in the video cable connector. • Restart the computer in safe mode.
Safety related issues	• Do not perform any troubleshooting step. • Contact Dell immediately.
Intermittent problems	• Ensure that the video cable connecting the monitor to the computer is connected properly and is secure. • Perform monitor self-test feature check to determine if the intermittent problem occurs in self-test mode.

Common symptoms	Possible solutions
Missing color	• Perform monitor self-test feature check. • Ensure that the video cable connecting the monitor to the computer is connected properly and is secure. • Check for bent or broken pins in the video cable connector.
Intermittent charging when using USB Type-C connection to computer, lapttop, and so on	• Check if the maximum power consumption device is over 65 W. • Ensure that you use only Dell approved adapter or the adapter that comes with the product. • Ensure that you use Dell-approved USB Type-C cable provided with the monitor. • Ensure that the USB Type-C cable is not damaged.

Appendix

Safety instructions

⚠ **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.**

For information on safety instructions, see Safety, Environmental, and Regulatory Information (SERI).

FCC Notices (U.S. Only) and Other Regulatory Information

For FCC notices and other regulatory information, see the regulatory compliance website located at https://www.dell.com/regulatory_compliance.

Contact 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.

- Online technical assistance — https://www.dell.com/support/monitors
- Contacting Dell — https://www.dell.com/contactdell

EU product database for energy label and product information sheet

https://eprel.ec.europa.eu/qr/731543