

Vostro 14 3430

Owner's Manual

Views of Vostro 14 3430

Right



1. SD-card slot

Reads from and writes to the SD card. The computer supports the following card types:

- Secure Digital (SD)
- Secure Digital High Capacity (SDHC)
- Secure Digital Extended Capacity (SDXC)

2. USB 2.0 port

Connect devices such as external storage devices and printers. Provides data transfer speeds up to 480 Mbps.

3. Network port

Connect an Ethernet (RJ45) cable from a router or a broadband modem for network or Internet access, with a transfer rate of 10/100/1000 Mbps.

4. Universal audio port

Connect headphones or a headset (headphone and microphone combo).

5. Security-cable slot (wedge-shaped)

Connect a security cable to prevent unauthorized movement of your computer.

Left



Figure 1. For computers shipped with a plastic chassis

1. Power-adaptor port (primary power)

Connect a power adapter to provide power to your computer and charge the battery.

2. Power and battery-status light

Indicates the power state and battery state of the computer.

Solid white—Power adapter is connected and the battery is charging.

Solid amber—Battery charge is low or critical.

Off—Battery is fully charged.

NOTE: On certain computer models, the power and battery-status light are also used for diagnostics. For more information, see the *Troubleshooting* section in your computer's *Service Manual*.

3. HDMI 1.4 port

Connect to a TV, external display or another HDMI-in enabled device. Provides video and audio output.

4. USB 3.2 Gen 1 port

Connect devices such as external storage devices and printers. Provides data transfer speeds up to 5 Gbps.

5. USB 3.2 Gen 1 (Type-C) port

Connect devices such as external storage devices and printers. Provides data transfer speeds up to 5 Gbps.



Figure 2. For computers shipped with an aluminum chassis or a discrete graphics card installed

1. Power-adapter port (primary power)

Connect a power adapter to provide power to your computer and charge the battery.

2. Power and battery-status light

Indicates the power state and battery state of the computer.

Solid white—Power adapter is connected and the battery is charging.

Solid amber—Battery charge is low or critical.

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NOTE: On certain computer models, the power and battery-status light are also used for diagnostics. For more information, see the *Troubleshooting* section in your computer's *Service Manual*.

3. HDMI 1.4 port

Connect to a TV, external display or another HDMI-in enabled device. Provides video and audio output.

4. USB 3.2 Gen 1 port

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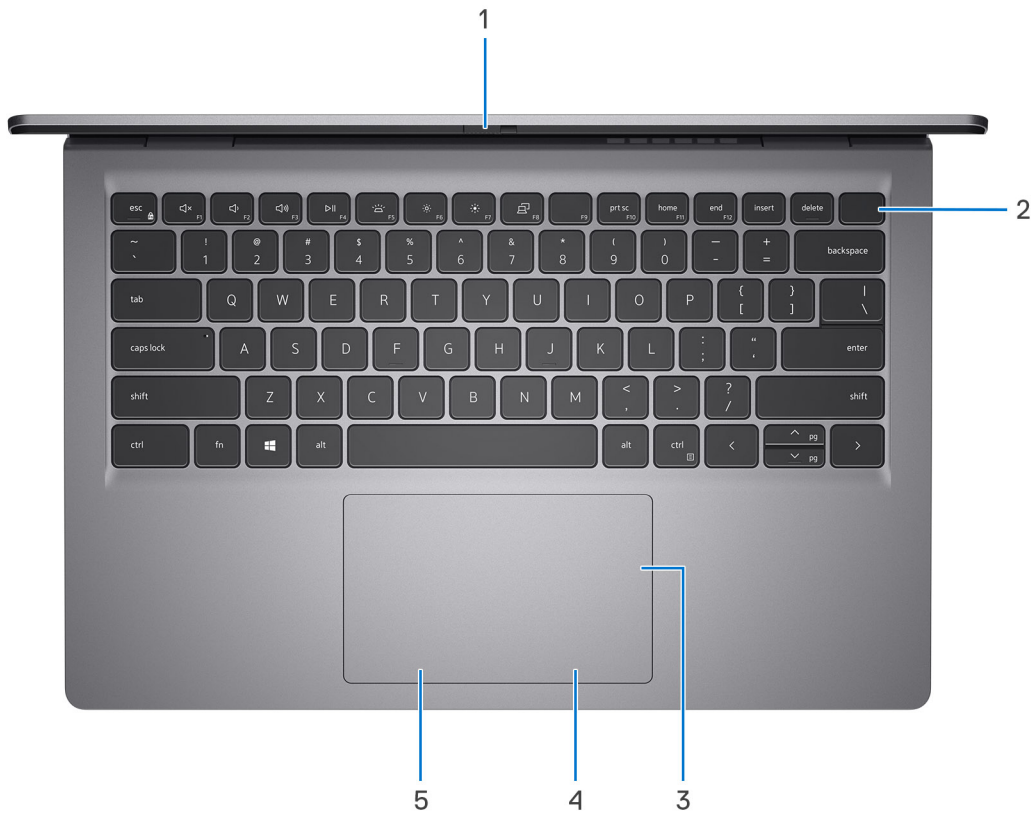
5. USB 3.2 Gen 1 (Type-C) port with Power Delivery/DisplayPort

Connect devices such as external storage devices, printers, and external displays.

Supports Power Delivery that enables two-way power supply between devices. Provides up to 15 W power output that enables faster charging.

NOTE: A USB Type-C to DisplayPort adapter (sold separately) is required to connect a DisplayPort device.

Top



1. Privacy shutter (only for computers shipped with an aluminum chassis)

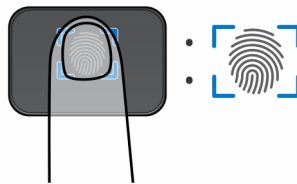
Slide the privacy shutter to cover the camera lens and protect your privacy when the camera is not in use.

2. Power button with optional fingerprint reader

Press to turn on the computer if it is turned off, in sleep state, or in hibernate state.

When the computer is turned on, press the power button to put the computer into sleep state; press and hold the power button for ten seconds to force shut-down the computer.

If the power button has a fingerprint reader, place your finger on the power button to log in.



NOTE: The highlighted area indicates the actual active fingerprint reader area and the image is for illustration purposes only.

NOTE: You can customize power-button behavior in Windows. For more information, see www.dell.com/support/manuals.

3. Precision touchpad

Move your finger on the touchpad to move the mouse pointer. Tap to left-click and two fingers tap to right-click.

4. Right-click area

Press to right-click.

5. Left-click area

Press to left-click.

Front

 **CAUTION:** The maximum operating angle for the display-panel hinge is 135 degrees.

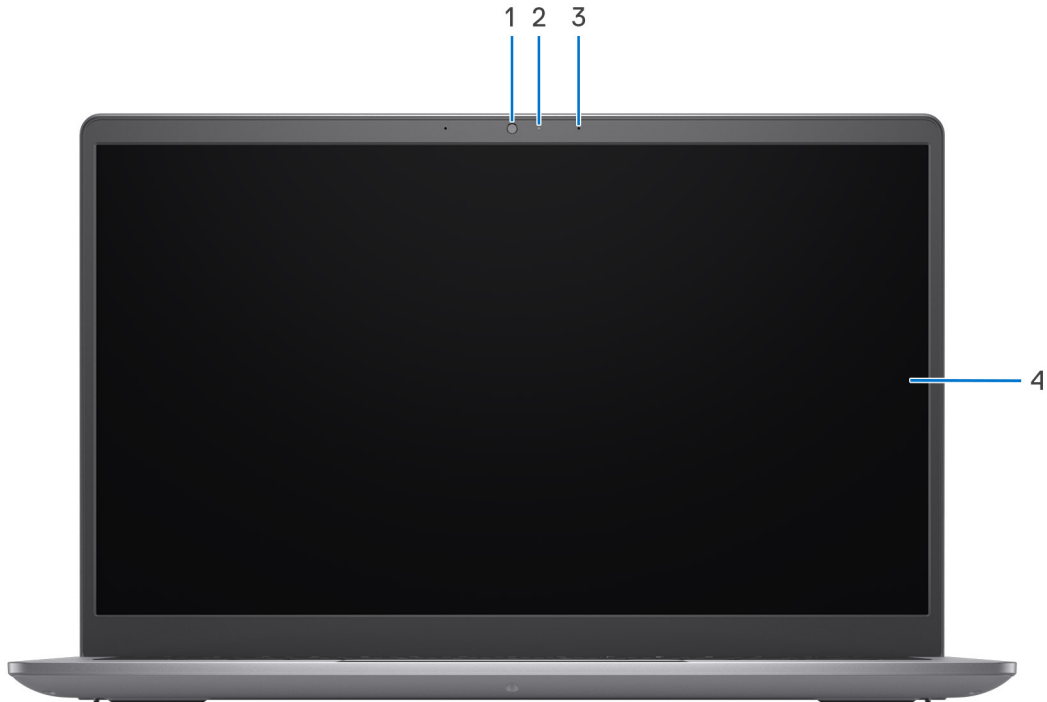


Figure 3. For computers shipped with a plastic chassis

- 1. Camera**
Enables you to video chat, capture photos, and record videos.
- 2. Camera-status light**
Turns on when the camera is in use.
- 3. Microphone**
Provides digital sound input for audio recording, voice calls, and so on.
- 4. Display**
Provides visual output.

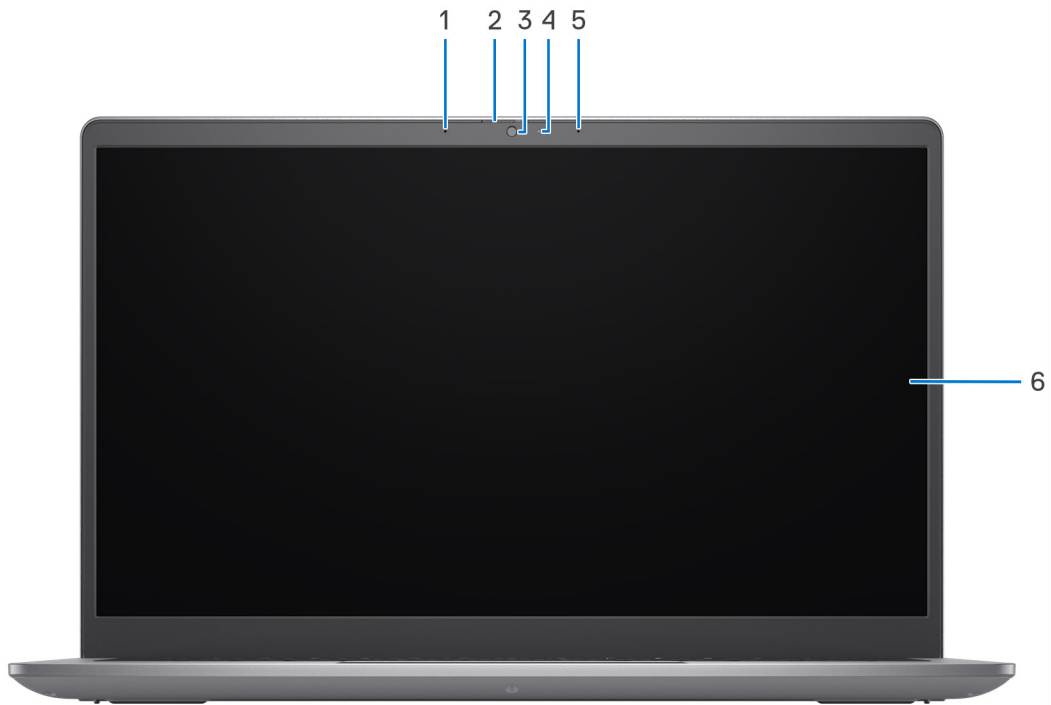


Figure 4. For computers shipped with an aluminum chassis

1. Left microphone

Provides digital sound input for audio recording and voice calls.

2. Privacy shutter

Slide the privacy shutter to cover the camera lens and protect your privacy when the camera is not in use.

3. Camera

Enables you to video chat, capture photos, and record videos.

4. Camera-status light

Turns on when the camera is in use.

5. Right microphone

Provides digital sound input for audio recording and voice calls.

6. Display

Provides visual output.

Bottom



1. Right speaker

Provides audio output.

2. Air vents

Air vents provide ventilation for your computer. Clogged air vents can cause overheating and can affect your computer's performance and potentially cause hardware issues. Keep the air vents clear of obstructions and clean them regularly to prevent build-up of dust and dirt. For more information about cleaning air vents, search for articles in Knowledge Base Resource at www.dell.com/support.

3. Service Tag label

The Service Tag is a unique alphanumeric identifier that enables Dell service technicians to identify the hardware components in your computer and access warranty information.

4. Left speaker

Provides audio output.

Service Tag

The service tag is a unique alphanumeric identifier that allows Dell service technicians to identify the hardware components in your computer and access warranty information.



Battery charge and status light

The following table lists the battery charge and status light behavior of your Vostro 14 3430.

Table 1. Battery charge and status light behavior

Power Source	LED Behavior	System Power State	Battery Charge Level
AC Adapter	Off	S0 - S5	Fully Charged
AC Adapter	Solid White	S0 - S5	< Fully Charged
Battery	Off	S0 - S5	11-100%
Battery	Solid Amber (590+/-3 nm)	S0 - S5	< 10%

- S0 (ON) - System is turned on.
- S4 (Hibernate) - The system consumes the least power compared to all other sleep states. The system is almost at an OFF state, expect for a trickle power. The context data is written to hard drive.
- S5 (OFF) - The system is in a shutdown state.

Set up your Vostro 14 3430

About this task

NOTE: The images in this document may differ from your computer depending on the configuration you ordered.

Steps

1. Connect the power adapter and press the power button.



NOTE: To conserve battery power, the battery might enter power saving mode. Connect the power adapter and press the power button to turn on the computer.

2. Finish operating system setup.

For Ubuntu:

Follow the on-screen instructions to complete the setup. For more information about installing and configuring Ubuntu, search in the Knowledge Base Resource at www.dell.com/support.







For Windows:

Follow the on-screen instructions to complete the setup. When setting up, Dell recommends that you:

- Connect to a network for Windows updates.
 - NOTE:** If connecting to a secured wireless network, enter the password for the wireless network access when prompted.
- If connected to the internet, sign-in with or create a Microsoft account. If not connected to the internet, create an offline account.
- On the **Support and Protection** screen, enter your contact details.

3. Locate and use Dell apps from the Windows Start menu—Recommended.

Table 2. Locate Dell apps

Resources	Description
	<p>Dell Product Registration Register your computer with Dell.</p>
	<p>Dell Help & Support Access help and support for your computer.</p>
	<p>My Dell Centralized location for key Dell applications, help articles, and other important information about your computer. It also notifies you about the warranty status, recommended accessories, and software updates if available.</p>
	<p>SupportAssist SupportAssist is the smart technology that keeps your computer running at its best by optimizing settings, detecting issues, removing viruses and notifies when you need to make system updates. SupportAssist proactively checks the health of your system's hardware and software. When an issue is detected, the necessary system state information is sent to Dell to begin troubleshooting. SupportAssist is preinstalled on most of the Dell devices running Windows operating system. For more information, see SupportAssist for Home PCs User's Guide on www.dell.com/serviceabilitytools.</p> <p>NOTE: In SupportAssist, click the warranty expiry date to renew or upgrade your warranty.</p>
	<p>Dell Update Updates your computer with critical fixes and latest device drivers as they become available. For more information on using Dell Update, search in the Knowledge Base Resource at www.dell.com/support.</p>
	<p>Dell Digital Delivery Download software applications, which are purchased but not preinstalled on your computer. For more information on using Dell Digital Delivery, search in the Knowledge Base Resource at www.dell.com/support.</p>

Specifications of Vostro 14 3430

Dimensions and weight

The following table lists the height, width, depth, and weight of your Vostro 14 3430.

Table 3. Dimensions and weight

Description	Computer shipped with a plastic chassis	Computer shipped with an aluminum chassis
Height:		
Front height	18.62 mm (0.73 in.)	17.52 mm (0.69 in.)
Rear height	19.48 mm (0.77 in.)	18.48 mm (0.73 in.)
Width	323.67 mm (12.74 in.)	323.67 mm (12.74 in.)
Depth	220.26 mm (8.67 in.)	219.76 mm (8.65 in.)
Weight (minimum)	1.46 kg (3.22 lb) i NOTE: The weight of your computer depends on the configuration ordered and manufacturing variability.	1.44 kg (3.17 lb) i NOTE: The weight of your computer depends on the configuration ordered and manufacturing variability.

Processor

The following table lists the details of the processors supported by your Vostro 14 3430.

Table 4. Processor

Description	Option one	Option two	Option three	Option four
Processor type	13 th Generation Intel Core i3-1305U	13 th Generation Intel Core i5-1335U	13 th Generation Intel Core i7-1355U	Intel Processor U300
Processor wattage	15 W	15 W	15 W	15 W
Processor total core count	5	10	10	5
Performance-cores	1	2	2	1
Efficient-cores	4	8	8	4
Processor total thread counts	6	12	12	6
i NOTE: Intel Hyper-Threading Technology is only available on Performance-cores.				

Table 4. Processor (continued)

Description	Option one	Option two	Option three	Option four
Processor speed	1.20 GHz to 4.50 GHz	0.90 GHz to 4.60 GHz	1.20 GHz to 5.00 GHz	0.90 GHz to 4.40 GHz
Performance-cores frequency				
Processor base frequency	1.60 GHz	1.30 GHz	1.70 GHz	1.20 GHz
Maximum turbo frequency	4.50 GHz	4.60 GHz	5.00 GHz	4.40 GHz
Efficient-cores frequency				
Processor base frequency	1.20 GHz	0.90 GHz	1.20 GHz	0.90 GHz
Maximum turbo frequency	3.30 GHz	3.40 GHz	3.70 GHz	3.30 GHz
Processor cache	10 MB	12 MB	12 MB	8 MB
Integrated graphics	Intel UHD Graphics	Intel Iris X ^e Graphics	Intel Iris X ^e Graphics	Intel UHD Graphics

Chipset

The following table lists the details of the chipset supported by your Vostro 14 3430

Table 5. Chipset

Description	Option one	Option two
Processors	13 th Generation Intel Core i3/i5/i7 processors and Intel Processor U300	13 th Generation Intel Core i5/i7 processors
Chipset	Integrated with the processor	Integrated with the processor
DRAM bus width	64-bit	64-bit
Flash EPROM	32 MB	32 MB
PCIe bus	Up to Gen 3	Up to Gen 4

Operating system

Your Vostro 14 3430 supports the following operating systems:

- Windows 11 Pro
- Windows 11 Pro National Academic
- Windows 11 Home
- Windows 11 Pro Downgrade (Windows 10 image factory installed)
- Ubuntu 22.04 LTS, 64-bit

Memory

The following table lists the memory specifications of your Vostro 14 3430.

Table 6. Memory specifications

Description	Values
Memory slots	Two SODIMM slots
Memory type	DDR4
Memory speed	<ul style="list-style-type: none">• 2666 MHz (for computers shipped with USB 3.2 Gen 1 Type-C port)• 3200 MHz (for computers shipped with USB 3.2 Gen 1 Type-C port with DisplayPort Alt Mode 1.4/Power Delivery)
Maximum memory configuration	16 GB
Minimum memory configuration	4 GB
Memory size per slot	4 GB, 8 GB and 16 GB
Memory configurations supported	<p>For computers shipped with USB 3.2 Gen 1 Type-C port</p> <ul style="list-style-type: none">• 4 GB, 1 x 4 GB, DDR4, 2666 MHz• 8 GB, 2 x 4 GB, DDR4, 2666 MHz, dual-channel• 8 GB, 1 x 8 GB, DDR4, 2666 MHz• 12 GB, 1 x 4 GB + 1 x 8 GB, DDR4, 2666 MHz, dual-channel• 16 GB, 2 x 8 GB, DDR4, 2666 MHz, dual-channel• 16 GB, 1 x 16 GB, DDR4, 2666 MHz <p>For computers shipped with USB 3.2 Gen 1 Type-C port with DisplayPort Alt Mode 1.4/Power Delivery</p> <ul style="list-style-type: none">• 4 GB, 1 x 4 GB, DDR4, 3200 MHz• 8 GB, 2 x 4 GB, DDR4, 3200 MHz, dual-channel• 8 GB, 1 x 8 GB, DDR4, 3200 MHz• 12 GB, 1 x 4 GB + 1 x 8 GB, DDR4, 3200 MHz, dual-channel• 16 GB, 2 x 8 GB, DDR4, 3200 MHz, dual-channel• 16 GB, 1 x 16 GB, DDR4, 3200 MHz

External ports

The following table lists the external ports of your Vostro 14 3430.

Table 7. External ports

Description	Values
Network port	One Flip-Down RJ45 Ethernet port
USB ports	<ul style="list-style-type: none">• One USB 3.2 Gen 1 port• One USB 2.0 port• One USB 3.2 Gen 1 Type-C port (for computers shipped with a plastic chassis)• One USB 3.2 Gen 1 Type-C port with DisplayPort Alt Mode 1.4/Power Delivery (for computers shipped with an aluminum chassis or a discrete graphics card installed)

Table 7. External ports (continued)

Description	Values
Audio port	One universal audio port
Video port	<ul style="list-style-type: none"> One HDMI 1.4 port One USB 3.2 Gen 1 Type-C port with DisplayPort Alt Mode 1.4/Power Delivery (for computers shipped with an aluminum chassis or a discrete graphics card installed)
Media-card reader	One SD-card slot
Power-adaptor port	One DC-in port (4.50 mm standard plug)
Security-cable slot	One wedge-shaped lock slot

Internal slots

The following table lists the internal slots of your Vostro 14 3430.

Table 8. Internal slots

Description	Values
M.2	<ul style="list-style-type: none"> One M.2 2230/2280 slot for solid-state drive One M.2 2230 slot for WLAN, Wi-Fi/Bluetooth <p>NOTE: To learn more about the features of different types of M.2 cards, search in the Knowledge Base Resource at www.dell.com/support.</p>

Ethernet

The following table lists the wired Ethernet Local Area Network (LAN) specifications of your Vostro 14 3430.

Table 9. Ethernet specifications

Description	Values
Model number	Integrated Realtek RTL8111H
Transfer rate	10/100/1000 Mbps

Wireless module

The following table lists the Wireless Local Area Network (WLAN) modules that are supported on your Vostro 14 3430.

Table 10. Wireless module specifications

Description	Option one	Option two
Model number	Realtek RTL8821CE	Realtek RTL8852BE
Transfer rate	Up to 433 Mbps	Up to 1201 Mbps
Frequency bands supported	2.40 GHz/5 GHz	2.40 GHz/5 GHz

Table 10. Wireless module specifications (continued)

Description	Option one	Option two
Wireless standards	<ul style="list-style-type: none"> • WiFi 802.11a/b/g • Wi-Fi 4 (WiFi 802.11n) • Wi-Fi 5 (WiFi 802.11ac) 	<ul style="list-style-type: none"> • WiFi 802.11a/b/g • Wi-Fi 4 (WiFi 802.11n) • Wi-Fi 5 (WiFi 802.11ac) • Wi-Fi 6 (WiFi 802.11ax)
Encryption	<ul style="list-style-type: none"> • 64-bit/128-bit WEP • AES-CCMP • TKIP 	<ul style="list-style-type: none"> • 64-bit/128-bit WEP • AES-CCMP • TKIP
Bluetooth wireless card	Bluetooth 5.0 wireless card	Bluetooth 5.3 wireless card <i>i</i> NOTE: Particular versions of Microsoft Windows may not support the full Bluetooth 5.3 wireless card functionality.
	<i>i</i> NOTE: The version of the Bluetooth wireless card may vary depending on the operating system that is installed on your computer.	

Audio

The following table lists the audio specifications of your Vostro 14 3430.

Table 11. Audio specifications

Description	Values	
Audio controller	There are two audio controller options: <ul style="list-style-type: none"> • Realtek ALC3204 • Realtek ALC3254 	
Stereo conversion	Supported	
Internal audio interface	High definition audio interface	
External audio interface	One universal audio port	
Number of speakers	Two	
Internal-speaker amplifier	Supported	
External volume controls	Keyboard shortcut controls	
Speaker output:		
	Average speaker output	2 W
	Peak speaker output	2.5 W
Subwoofer output	Not supported	
Microphone	<ul style="list-style-type: none"> • Single integrated microphone (for computers shipped with a plastic chassis) • Dual-array microphones (for computers shipped with an aluminum chassis) 	

Storage

This section lists the storage options on your Vostro 14 3430.

Your Vostro 14 3430 supports the following storage configurations:

- One M.2 2230/2280 solid-state drive

The M.2 2230/2280 solid-state drive is the primary drive of your computer.


Table 12. Storage specifications

Storage type	Interface type	Capacity
M.2 2230, Solid-state drive	PCIe NVMe Gen4 x4 QLC	Up to 1 TB
M.2 2230, Solid-state drive	PCIe NVMe Gen4 x4	Up to 1 TB
M.2 2280, Solid-state drive	PCIe NVMe Gen4 x4	Up to 2 TB

Media-card reader

The following table lists the media cards supported by your Vostro 14 3430.

Table 13. Media-card reader specifications

Description	Values
Media-card type	One SD-card slot
Media-cards supported	<ul style="list-style-type: none">• Secure Digital (SD)• Secure Digital High Capacity (SDHC)• Secure Digital Extended Capacity (SDXC)
 NOTE: The maximum capacity supported by the media-card reader varies depending on the standard of the media card installed in your computer.	

Keyboard

The following table lists the keyboard specifications of your Vostro 14 3430.

Table 14. Keyboard specifications

Description	Values
Keyboard type	<ul style="list-style-type: none">• Standard backlit keyboard• Standard non-backlit keyboard
Keyboard layout	QWERTY
Number of keys	<ul style="list-style-type: none">• United States and Canada: 79 keys• United Kingdom: 80 keys• Japan: 83 keys
Keyboard size	X = 19.05 mm key pitch Y = 18.05 mm key pitch
Keyboard shortcuts	Some keys on your keyboard have two symbols on them. These keys can be used to type alternate characters or to perform secondary functions. To type the alternate character,

Table 14. Keyboard specifications (continued)

Description	Values
	press Shift and the desired key. To perform secondary functions, press Fn and the desired key. ⓘ NOTE: You can define the primary behavior of the function keys (F1–F12) by changing Function Key Behavior in BIOS setup program.

Keyboard shortcuts of Vostro 14 3430

ⓘ **NOTE:** Keyboard characters may differ depending on the keyboard language configuration. Keys used for shortcuts remain the same across all language configurations.

Some keys on your keyboard have two symbols on them. These keys can be used to type alternate characters or to perform secondary functions. The symbol shown on the lower part of the key refers to the character that is typed out when the key is pressed. If you press shift and the key, the symbol shown on the upper part of the key is typed out. For example, if you press **2**, **2** is typed out; if you press **Shift + 2**, **@** is typed out.

The keys F1-F12 at the top row of the keyboard are function keys for multi-media control, as indicated by the icon at the bottom of the key. Press the function key to invoke the task represented by the icon. For example, pressing F1 mutes the audio (refer to the table below).

However, if the function keys F1-F12 are needed for specific software applications, multi-media functionality can be disabled by pressing **fn + Esc**. Subsequently, multi-media control can be invoked by pressing **fn** and the respective function key. For example, mute audio by pressing **fn + f1**.

ⓘ **NOTE:** You can also define the primary behavior of the function keys (F1–F12) by changing **Function Key Behavior** in BIOS setup program.

Table 15. List of keyboard shortcuts

Function key	Primary behavior
F1	Mute audio
F2	Decrease volume
F3	Increase volume
F4	Play/Pause
F5	Click keyboard backlight (optional). ⓘ NOTE: Non-backlight keyboards have F5 function key without the backlight icon and do not support toggle keyboard backlight function. ⓘ NOTE: Toggle to cycle the keyboard backlight status through off, low-backlight, and high-backlight.
F6	Decrease brightness
F7	Increase brightness
F8	Switch to external display
F10	Print screen
F11	Home
F12	End

The **fn** key is also used with selected keys on the keyboard to invoke other secondary functions.

Table 16. Secondary behavior

Function key	Secondary behavior
fn + Esc	Toggle fn-key lock
fn + S	Toggle scroll lock
fn + B	Pause/Break
fn + R	System request
fn + Right ctrl	Open application menu
fn + / ⓘ NOTE: This option is available only in Brazilian keyboard.	Open application menu
fn + Space bar	Open emoji menu
fn + T	Toggle ultra performance mode
fn + Left arrow	Home
fn + Right arrow	End

Camera

The following table lists the camera specifications of your Vostro 14 3430.

Table 17. Camera specifications

Description	Computer shipped with plastic chassis	Computer shipped with aluminum chassis
Number of cameras	One	One
Camera type	There is one camera option: <ul style="list-style-type: none"> • HD RGB camera 	There is one camera option: <ul style="list-style-type: none"> • FHD RGB camera
Camera location	Front camera	Front camera
Camera sensor type	CMOS sensor technology	CMOS sensor technology
Camera resolution:		
Still image	0.92 megapixel	2.00 megapixel
Video	1280 x 720 (HD) at 30 fps	1920 x 1080 (FHD) at 30 fps
Diagonal viewing angle	78.60 degrees	82.00 degrees

Touchpad

The following table lists the touchpad specifications of your Vostro 14 3430.

Table 18. Touchpad specifications

Description	Values
Touchpad resolution:	
Horizontal	> 300 dpi
Vertical	> 300 dpi


Table 18. Touchpad specifications (continued)

Description		Values
Touchpad dimensions:		
	Horizontal	115.00 mm (4.53 in.)
	Vertical	70.00 mm (2.76 in.)
Touchpad gestures		For more information about touchpad gestures available on Windows, see the Microsoft knowledge base article at support.microsoft.com .

Power adapter

The following table lists the power adapter specifications of your Vostro 14 3430.

Table 19. Power adapter specifications

Description		Values
Type		65 W
Connector dimensions:		
	External diameter	4.50 mm (0.18 in.)
	Internal diameter	2.90 mm (0.11 in.)
Power-adapter dimensions:		
	Height	28.00 mm (1.10 in.)
	Width	108.00 mm (4.30 in.)
	Depth	47.00 mm (1.90 in.)
Power-adapter weight (maximum)		0.29 kg (0.64 lb)
Input voltage		100 VAC - 240 VAC
Input frequency		50 Hz - 60 Hz
Input current (maximum)		1.60 A/1.70 A
Output current (continuous)		3.34 A
Rated output voltage		19.50 VDC
Temperature range:		
	Operating	0°C to 40°C (32°F to 104°F)
	Storage	-40°C to 70°C (-40°F to 158°F)
 CAUTION: Operating and storage temperature ranges may differ among components, so operating or storing the device outside these ranges may impact the performance of specific components.		

Battery

The following table lists the battery specifications of your Vostro 14 3430.

Table 20. Battery specifications

Description		Option one	Option two
Battery type		3-cell, 41 Wh, lithium-polymer, ExpressCharge	4-cell, 54 Wh, lithium-polymer, ExpressCharge
Battery voltage		11.25 VDC	15.00 VDC
Battery weight (maximum)		0.19 kg (0.41 lb)	0.24 kg (0.55 lb)
Battery dimensions:			
	Height	206.40 mm (8.12 in.)	271.90 mm (10.70 in.)
	Width	82.00 mm (3.22 in.)	82.00 mm (3.22 in.)
	Depth	5.75 mm (0.22 in.)	5.75 mm (0.22 in.)
Temperature range:			
	Operating	<p>When charging battery:</p> <ul style="list-style-type: none"> Initiating charging: 0°C to 45°C (32°F to 113°F) Upper limit for charging (maximum): 50°C (122°F) <p>When discharging battery:</p> <ul style="list-style-type: none"> Normal discharging: 0°C to 60°C (32°F to 140°F) Over temperature protection (maximum): 70°C (158°F) <p>i NOTE: The battery does not allow discharge past this temperature.</p>	<p>When charging battery:</p> <ul style="list-style-type: none"> Initiating charging: 0°C to 45°C (32°F to 113°F) Upper limit for charging (maximum): 50°C (122°F) <p>When discharging battery:</p> <ul style="list-style-type: none"> Normal discharging: 0°C to 60°C (32°F to 140°F) Over temperature protection (maximum): 70°C (158°F) <p>i NOTE: The battery does not allow discharge past this temperature.</p>
	Storage	-20°C to 60°C (-4°F to 140°F)	-20°C to 60°C (-4°F to 140°F)
Battery operating time		Varies depending on operating conditions and can significantly reduce under certain power-intensive conditions.	Varies depending on operating conditions and can significantly reduce under certain power-intensive conditions.
Battery charging time (approximate) i NOTE: Control the charging time, duration, start and end time, and so on using the Dell Power Manager application. For more information about Dell Power Manager, search in the Knowledge Base Resource at www.dell.com/support .		<p>Standard Charge/Predominately AC User Charge Method:</p> <ul style="list-style-type: none"> 0 - 15°C maximum allowable charge time from 0 to 100% RSOC is 4 hours 16 - 50°C maximum allowable charge time from 0 to 100% RSOC is 3 hours <p>Express Charge Method:</p> <ul style="list-style-type: none"> 0 - 15°C maximum allowable charge time from 0 to 100% RSOC is 4 hours 16 - 45°C normal express charge 46 - 50°C maximum allowable charge time from 0 to 80% RSOC 	<p>Standard Charge/Predominately AC User Charge Method:</p> <ul style="list-style-type: none"> 0 - 15°C maximum allowable charge time from 0 to 100% RSOC is 4 hours 16 - 50°C maximum allowable charge time from 0 to 100% RSOC is 3 hours <p>Express Charge Method:</p> <ul style="list-style-type: none"> 0 - 15°C maximum allowable charge time from 0 to 100% RSOC is 4 hours 16 - 45°C normal express charge 46 - 50°C maximum allowable charge time from 0 to 80% RSOC is 1 hours charge time from 0 to 100% RSOC is 2 hours

Table 20. Battery specifications (continued)

Description	Option one	Option two
	is 1 hours charge time from 0 to 100% RSOC is 2 hours Express Charge Boost Charge Method (Fast Charge for Initial 35%): <ul style="list-style-type: none"> 16 - 45°C target charge time from 0 to 35% RSOC is 20 mins 	Express Charge Boost Charge Method (Fast Charge for Initial 35%): <ul style="list-style-type: none"> 16 - 45°C target charge time from 0 to 35% RSOC is 20 mins
Coin-cell battery	Not supported	Not supported
<p>CAUTION: Operating and storage temperature ranges may differ among components, so operating or storing the device outside these ranges may impact the performance of specific components.</p> <p>CAUTION: Dell recommends that you charge the battery regularly for optimal power consumption. If your battery charge is completely depleted, connect the power adapter, turn on your computer, and then restart your computer to reduce the power consumption.</p>		

Display

The following table lists the display specifications of your Vostro 14 3430.

Table 21. Display specifications

Description	Option one	Option two
Display type	14-inch High Definition (HD)	14-inch Full High Definition (FHD)
Touch options	No	No
Display-panel technology	Twisted Nematic (TN)	In-Plane Switching (IPS)
Display-panel dimensions (active area):		
	Height	174.02 mm (6.85 in.)
	Width	309.37 mm (12.18 in.)
	Diagonal	355.60 mm (14.00 in.)
Display-panel native resolution	1366 x 768	1920 x 1080
Luminance (typical)	220 nits	250 nits
Megapixels	1.05	2.07
Color gamut	45% NTSC	45% NTSC
Pixels Per Inch (PPI)	112	158
Contrast ratio (min.)	300:1	500:1
Response time (max.)	21 ms	35 ms
Refresh rate	60 Hz	60 Hz
Horizontal view angle	40 +/- degrees (min.)	80 +/- degrees (min.)

Table 21. Display specifications (continued)

Description	Option one	Option two
Vertical view angle	10 (Top)/30 (Bottom) degrees (min.)	80 +/- degrees (min.)
Pixel pitch	0.2265 mm x 0.2265 mm	0.161 mm x 0.161 mm
Power consumption (maximum)	2.50 W	3.90 W
Anti-glare vs glossy finish	Anti-glare	Anti-glare

Fingerprint reader (optional)

The following table lists the specifications of the optional fingerprint reader of your Vostro 14 3430.

NOTE: The fingerprint reader is located on the power button.

Table 22. Fingerprint reader specifications

Description	Values
Fingerprint-reader sensor technology	Capacitive sensing
Fingerprint-reader sensor resolution	500 dpi
Fingerprint-reader sensor pixel size	108 x 88 pixel

Sensor

The following table lists the sensor of your Vostro 14 3430.

Table 23. Sensor

Sensor support
Adaptive Thermal Performance Accelerometer

GPU—Integrated

The following table lists the specifications of the integrated Graphics Processing Unit (GPU) supported by your Vostro 14 3430.

Table 24. GPU—Integrated

Controller	Memory size	Processor
Intel UHD Graphics	Shared system memory	13 th Generation Intel Core i3 processors and Intel Processor U300
Intel Iris X ^e Graphics	Shared system memory (dual-channel)	13 th Generation Intel Core i5/i7 processors

GPU—Discrete

The following table lists the specifications of the discrete Graphics Processing Unit (GPU) supported by your Vostro 14 3430.

Table 25. GPU—Discrete

Controller	Memory size	Memory type
NVIDIA GeForce MX550	2 GB	GDDR6

Hardware security

The following table lists the hardware security of your Vostro 14 3430.

Table 26. Hardware security


Hardware security
Windows 10 Hello - Fingerprint Reader (optional)
Trusted Platform Module TPM 2.0
Wedge-shaped lock
Mechanical camera shutter (only for computers shipped with an aluminum chassis)

Operating and storage environment

This table lists the operating and storage specifications of your Vostro 14 3430.

Airborne contaminant level: G1 as defined by ISA-S71.04-1985

Table 27. Computer environment

Description	Operating	Storage
Temperature range	0°C to 35°C (32°F to 95°F)	-40°C to 65°C (-40°F to 149°F)
Relative humidity (maximum)	10% to 90% (non-condensing)	0% to 95% (non-condensing)
Vibration (maximum)*	0.66 GRMS	1.30 GRMS
Shock (maximum)	110 G†	160 G†
Altitude range	0 m to 3048 m (0 ft to 10000 ft)	0 m to 10668 m (0 ft to 35000 ft)
 CAUTION: Operating and storage temperature ranges may differ among components, so operating or storing the device outside these ranges may impact the performance of specific components.		


* Measured using a random vibration spectrum that simulates user environment.

† Measured using a 2 ms half-sine pulse.

Dell Support policy

For information on Dell support policy, search in the Knowledge Base Resource at www.dell.com/support.

ComfortView

 **WARNING: Prolonged exposure to blue light from the display may lead to long-term effects such as eye strain, eye fatigue, or damage to the eyes.**

Blue light is a color in the light spectrum which has a short wavelength and high energy. Chronic exposure to blue light, particularly from digital sources, may disrupt sleep patterns and cause long-term effects such as eye strain, eye fatigue, or damage to the eyes.

ComfortView mode can be enabled and configured using the Dell CinemaColor application.

ComfortView mode complies with TÜV Rheinland's requirement for low blue light software solution displays.

Low blue light: Dell ComfortView software technology reduces harmful blue light emissions to make extended screen time easy on your eyes.

To reduce the risk of eye strain, it is also recommended that you:

- Position the display at a comfortable viewing distance between 20 and 28 inches (50 and 70 cm) from your eyes.
- Blink frequently to moisten your eyes, wet your eyes with water, or apply suitable eye drops.
- Look away from your display, and gaze at a distant object at 20 ft (609.60 cm) away for at least 20 seconds during each break.
- Take an extended break for 20 minutes every two hours.