


Precision 5490

Owner's Manual

LaptopVANG.com

Notes, cautions, and warnings

 **NOTE:** A NOTE indicates important information that helps you make better use of your product.

 **CAUTION:** A CAUTION indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.

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

LaptopVANG.com

Chapter 1: Views of Precision 5490	7
Right.....	7
Left.....	8
Top.....	9
Front.....	10
Bottom.....	11
Service Tag.....	11
Battery charge and status light	12
Chapter 2: Set up your Precision 5490	13
Chapter 3: Specifications of Precision 5490	16
Dimensions and weight.....	16
Processor.....	16
Chipset.....	17
Operating system.....	17
Memory.....	17
External ports.....	18
Internal slots.....	18
Wireless module.....	18
Audio.....	19
Storage.....	19
Media-card reader.....	20
Keyboard.....	20
Keyboard shortcuts of Precision 5490.....	20
Camera.....	22
Touchpad.....	23
Power adapter.....	23
Battery.....	24
Display.....	25
Fingerprint reader.....	26
Sensor	26
GPU—Integrated.....	27
GPU—Discrete.....	27
Multiple display support matrix.....	27
Hardware security.....	27

Views of Precision 5490

Right



Figure 1. Right view

1. microSD-card slot

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

- micro-Secure Digital (microSD)
- micro-Secure Digital High Capacity (micro-SDHC)
- micro-Secure Digital Extended Capacity (micro-SDXC)

2. ThunderBolt 4 (40 Gbps) ports with Power Delivery and DisplayPort

Supports USB4, DisplayPort 2.1, Thunderbolt 4 and also enables you to connect to an external display using a display adapter. Provides data transfer rates of up to 40 Gbps for USB4 and Thunderbolt 4.

NOTE: You can connect a Dell Docking Station to the Thunderbolt 4 ports. For more information, see the knowledge base article [000124295](https://www.dell.com/support/000124295) at www.dell.com/support.

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

NOTE: USB4 is backward compatible with USB 3.2, USB 2.0, and Thunderbolt 3.

NOTE: Thunderbolt 4 supports two 4K displays or one 8K display.

3. Security-cable slot (wedge-shaped)

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

Left



Figure 2. Left view

1. Universal audio jack

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

2. ThunderBolt 4 (40 Gbps) ports with Power Delivery and DisplayPort

Supports USB4, DisplayPort 2.1, Thunderbolt 4 and also enables you to connect to an external display using a display adapter. Provides data transfer rates of up to 40 Gbps for USB4 and Thunderbolt 4.

NOTE: You can connect a Dell Docking Station to the Thunderbolt 4 ports. For more information, see the knowledge base article [000124295](https://www.dell.com/support/000124295) at www.dell.com/support.

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

NOTE: USB4 is backward compatible with USB 3.2, USB 2.0, and Thunderbolt 3.

NOTE: Thunderbolt 4 supports two 4K displays or one 8K display.

3. Smart card reader slot

Provides physical electronic authorization for access control to the resources.

Supports both Contactless and Contacted Smart Cards.

Provides personal identification, authentication, data storage, and application processing.

Top



Figure 3. Top view

1. Microphone

Provides digital sound input for audio recording, voice calls, and so on.

2. Power button with optional fingerprint reader

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

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

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

NOTE: You can customize the power-button behavior in Windows.

3. Right speaker

Provides audio output.

4. Precision touchpad with optional NFC/contactless smart-card reader

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

5. Left speaker

Provides audio output.

Front



Figure 4. Front view

1. RGB camera

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

2. LCD panel

Provides visual output to the user.

Bottom



Figure 5. Bottom view

1. Speakers

Provide audio output.

2. Air vents

Air is pulled by the internal fans through the air vents.

i **NOTE:** To prevent the computer from overheating, ensure that the air vents are not blocked when the computer is running.

3. Service Tag and regulatory labels

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. The regulatory label contains regulatory information of your computer.

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.

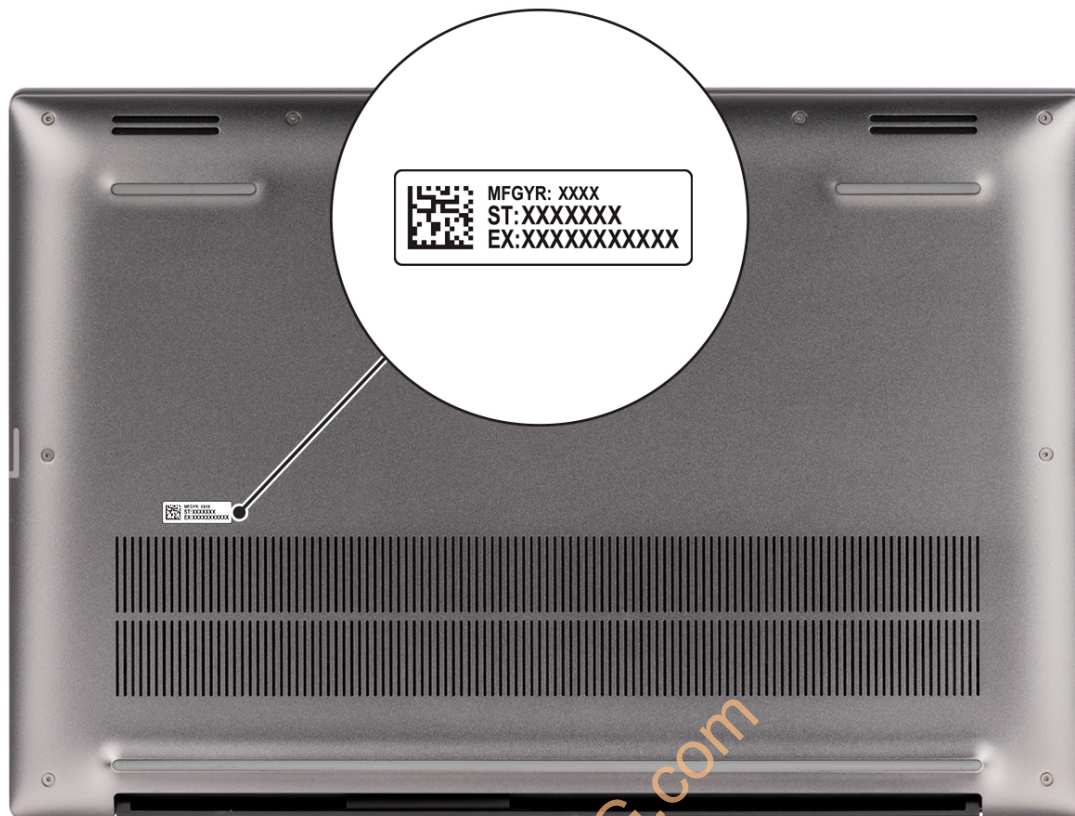


Figure 6. Service tag location

Battery charge and status light

The following table lists the battery charge and status light behavior of your Precision 5490.

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, except for a trickle power. The context data is written to a hard drive.
- S5 (OFF) - The system is in a shutdown state.

Set up your Precision 5490

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.



Figure 7. Connect the power adapter and press the power button.

NOTE: The battery may go into power-saving mode during shipment to conserve charge on the battery. Ensure that the power adapter is connected to your computer when it is turned on for the first time.

2. Finish the 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 Technologies recommends that you:

- Connect to a network for Windows updates.
 - ① **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 in Windows in S-mode




Resources	Description
	<p>Dell Product Registration</p> <p>Register your computer with Dell.</p>
	<p>Dell Help & Support</p> <p>Access help and support for your computer.</p>
	<p>SupportAssist</p> <p>SupportAssist proactively and predictively identifies hardware and software issues on your computer and automates the engagement process with Dell Technical support. It addresses performance and stabilization issues, prevents security threats, monitors, and detects hardware failures. For more information, see <i>SupportAssist for Home PCs User's Guide</i> at www.dell.com/support/home/product-support/product/dell-supportassist-pcs-tablets/docs.</p> <p>① NOTE: In SupportAssist, click the warranty expiry date to renew or upgrade your warranty.</p>

Table 3. Locate Dell apps in Windows






Resources	Description
	<p>My Dell</p> <p>MyDell is a software application that offers you a single streamlined engagement platform including account access, device information, and hardware settings. This software delivers intelligent features that automatically fine-tune your computer for the best possible audio, power, and performance. Get the most out of your Dell device with intelligent, personalized technology from MyDell. Following are the key features of MyDell:</p> <ul style="list-style-type: none"> • Application • Audio • Power • Color and Display • Presence detection <p>For more information about how to use MyDell, see product guides at www.dell.com/support.</p>
	<p>Dell Update</p> <p>Updates your computer with critical fixes and latest device drivers as they become available. For more information about using Dell Update, see the product guides and third-party license documents at www.dell.com/support.</p>
	<p>Dell Digital Delivery</p> <p>Download software applications, which are purchased but not preinstalled on your computer. For more information about using Dell Digital Delivery, search in the Knowledge Base Resource at www.dell.com/support.</p>
	<p>SupportAssist</p>

Table 3. Locate Dell apps in Windows (continued)

Resources	Description
	<p>SupportAssist proactively and predictively identifies hardware and software issues on your computer and automates the engagement process with Dell Technical support. It addresses performance and stabilization issues, prevents security threats, monitors, and detects hardware failures. For more information, see <i>SupportAssist for Home PCs User's Guide</i> at www.dell.com/support/home/product-support/product/dell-supportassist-pcs-tablets/docs.</p> <p> NOTE: In SupportAssist, click the warranty expiry date to renew or upgrade your warranty.</p>


LaptopVANG.com

Specifications of Precision 5490

Dimensions and weight

The following table lists the height, width, depth, and weight of your Precision 5490.

Table 4. Dimensions and weight

Description	Values
Height:	
Front height	0.29 in. (7.49 mm)
Rear height	0.74 in. (18.95 mm)
Width	12.22 in. (310.60 mm)
Depth	8.27 in. (210.35 mm)
Weight  NOTE: The weight of your computer depends on the configuration that is ordered and manufacturing variability.	3.30 lb (1.49 kg)

Processor

The following table lists the details of the processors that are supported for your Precision 5490.

Table 5. Processor

Description	Option one	Option two	Option three	Option four
Processor type	Intel Core Ultra 9 185H vPro	Intel Core Ultra 7 165H vPro	Intel Core Ultra 7 155H vPro Essentials	Intel Core Ultra 5 135H vPro
Processor wattage	45 W	45 W	45 W	45 W
Processor core count	16	16	16	14
Processor thread count	22	22	22	18
Processor speed	Up to 5.10 GHz	Up to 5.00 GHz	Up to 4.80 GHz	Up to 4.60 GHz
Processor cache	24 MB	24 MB	24 MB	18 MB
Integrated graphics	Intel Arc Graphics	Intel Arc Graphics	Intel Arc Graphics	Intel Arc Graphics

Chipset

The following table lists the details of the chipset that is supported for your Precision 5490.

Table 6. Chipset

Description	Values
Chipset	Intel MTL-H
Processor	Intel Core Ultra 5/7/9
DRAM bus width	64-bit
Flash EPROM	64 MB
PCIe bus	Up to Gen4.0

Operating system

Your Precision 5490 supports the following operating systems:

- Windows 11 23H2
- Windows 11 22H2
- Windows 10 22H2
- Ubuntu Linux 22.04, 64-bit

Memory

The following table lists the memory specifications of your Precision 5490.

Table 7. Memory specifications

Description	Values
Memory slots	Integrated on system board
Memory type	LPDDR5x
Memory speed	7467 MT/s
Maximum memory configuration	64 GB
Minimum memory configuration	16 GB
Memory configurations supported	<ul style="list-style-type: none">• 16 GB: LPDDR5x, 7467 MT/s, dual-channel (onboard)• 32 GB: LPDDR5x, 7467 MT/s, dual-channel (onboard)• 64 GB: LPDDR5x, 7467 MT/s, dual-channel (onboard)

External ports

The following table lists the external ports on your Precision 5490.


Table 8. External ports

Description	Values
USB ports	Four ThunderBolt 4 (40 Gbps) ports with Power Delivery and DisplayPort
Audio port	One headset (headphone and microphone combo) port
Video port/ports	Thunderbolt 4 ports with DisplayPort (USB Type-C)
Media-card reader	One microSD-card slot
Power-adaptor port	USB Type-C
Security-cable slot	One wedge-shaped lock slot

Internal slots

The following table lists the internal slots of your Precision 5490.

Table 9. Internal slots

Description	Values
M.2	M.2 2230/2280 solid-state drive  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 .

Wireless module

The following table lists the Wireless Local Area Network (WLAN) module that is supported on your Precision 5490.

Table 10. Wireless module specifications



Description	Values
Model number	Intel BE200
Transfer rate	Up to 5760 Mbps
Frequency bands supported	2.4 GHz/5 GHz/6 GHz  NOTE: The 6 GHz frequency is supported on computers installed with Windows 11 operating system only.
Wireless standards	<ul style="list-style-type: none">• WiFi 802.11a/b/g• Wi-Fi 4 (Wi-Fi 802.11n)• Wi-Fi 5 (WiFi 802.11ac)• Wi-Fi 6E (WiFi 802.11ax)• Wi-Fi 7 (WiFi 802.11be)
Encryption	<ul style="list-style-type: none">• 64-bit and 128-bit WEP

Table 10. Wireless module specifications (continued)

Description	Values
	<ul style="list-style-type: none"> • AES-CCMP • TKIP
Bluetooth wireless card	Bluetooth 5.4 wireless card
	 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 Precision 5490.

Table 11. Audio specifications

Description	Values	
Audio controller	Realtek ALC713	
Stereo conversion	Supported	
Internal audio interface	SoundWire	
External audio interface	One headset (headphone and microphone combo) port	
Number of speakers	Four (Two tweeter speakers and two woofer speakers)	
Internal-speaker amplifier	Realtek ALC1319D	
External volume controls	Keyboard shortcut controls	
Speaker output:		
	Average speaker output	2 W + 2 W (tweeter), 2 W + 2 W (woofer)
	Peak speaker output	2.5 W + 2.5 W (tweeter), 2.5 W + 2.5 W (woofer)
Subwoofer output	Supported	
Microphone	Dual digital-array microphones	

Storage

This section lists the storage options on your Precision 5490.

- M.2 2230, Gen 4 PCIe NVMe, SSD, Class 35
- M.2 2280, Gen 4 PCIe NVMe, SSD, Class 40
- M.2 2280, Gen 4 PCIe NVMe, SSD, Self Encrypting Opal 2.0, Class 40

Table 12. Storage specifications

Storage type	Interface type	Capacity
M.2 2230 Class 35 SSD	PCIe NVMe Gen4 x4	256 GB
M.2 2280 Class 40 SSD	PCIe NVMe Gen4 x4	Up to 4 TB


Table 12. Storage specifications (continued)

Storage type	Interface type	Capacity
M.2 2280 Class 40 Self Encrypting Opal 2.0	PCIe NVMe Gen4 x4	Up to 1 TB

Media-card reader

The following table lists the media cards that are supported on your Precision 5490.


Table 13. Media-card reader specifications

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


Keyboard

The following table lists the keyboard specifications of your Precision 5490.

Table 14. Keyboard specifications

Description	Values
Keyboard type	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, 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) changing Function Key Behavior in BIOS setup program.

Keyboard shortcuts of Precision 5490

 **NOTE:** Keyboard characters may differ depending on the keyboard language configuration. Keys that are 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 that is 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 that is 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 multimedia 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, multimedia functionality can be disabled by pressing **Fn + Esc**. Later, multimedia control can be invoked by pressing **Fn** and the respective function key. For example, mute audio by pressing **Fn + F1**.

i **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

Keyboard shortcut	Behavior
Copilot	Launch Copilot in Windows i NOTE: If Copilot in Windows is not available on your computer, the Copilot key launches Windows Search. For more information about Copilot in Windows, search in the Knowledge Base Resource at www.dell.com/support .
F1	Mute audio
F2	Decrease volume
F3	Increase volume
F4	Play the previous track or chapter
F5	Play or Pause
F6	Play the next track or chapter
F8	Switch to external display
F9	Search
F10	Click keyboard backlight (optional). i NOTE: Non-backlight keyboards have the F10 function key without the backlight icon and do not support the toggle keyboard backlight function. i NOTE: Toggle to cycle the keyboard backlight status through off, low-backlight, and high-backlight.
F11	Decrease brightness
F12	Increase brightness

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 + F1	Operating system and application-specific F1 behavior
Fn + F2	Operating system and application-specific F2 behavior
Fn + F3	Operating system and application-specific F3 behavior
Fn + F4	Operating system and application-specific F4 behavior
Fn + F5	Operating system and application-specific F5 behavior
Fn + F6	Operating system and application-specific F6 behavior

Table 16. Secondary behavior (continued)

Function key	Secondary behavior
Fn + F8	Operating system and application-specific F8 behavior
Fn + F9	Operating system and application-specific F9 behavior
Fn + F10	Operating system and application-specific F10 behavior
Fn + F11	Operating system and application-specific F11 behavior
Fn + F12	Operating system and application-specific F12 behavior
Fn + PrtScr	Turn off or on wireless
Fn + B	Pause or Break
Fn + Insert	Sleep
Fn + S	Toggle scroll lock
Fn + H	Toggle between power and battery-status light or hard drive activity light
Fn + R	System request
Fn + Ctrl	Open the application menu
Fn + Esc	Toggle Fn-key lock
Fn + PgUp	Page up
Fn + PgDn	Page down
Fn + Home	Home
Fn + End	End

Camera

The following table lists the camera specifications of your Precision 5490.

Table 17. Camera specifications

Description	Values
Number of cameras	One
Camera type	HD RGB and IR camera
Camera location	Front camera
Camera sensor type	CMOS sensor technology
Camera resolution:	
Still image	0.92 megapixel
Video	1280 x 720 (HD) at 30 fps
Infrared camera resolution:	
Still image	0.25 megapixel
Video	640 x 400 at 30 fps
Diagonal viewing angle:	

Table 17. Camera specifications (continued)

Description		Values
	Camera	75.8 degrees
	Infrared camera	75.8 degrees

Touchpad

The following table lists the touchpad specifications of your Precision 5490.

Table 18. Touchpad specifications

Description		Values
Touchpad resolution:		
	Horizontal	>300 dpi
	Vertical	761
Touchpad dimensions:		
	Horizontal	105.95 mm (4.17 in.)
	Vertical	65.30 mm (2.57 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 Precision 5490.

Table 19. Power adapter specifications

Description	Option one	Option two
Type	100 W AC adapter, USB-C (UMA only)	130 W AC adapter, USB-C (Discrete only)
Power-adapter dimensions:		
Height	26.50 mm (1.04 in.)	22.00 mm (0.87 in.)
Width	60.00 mm (2.36 in.)	66.00 mm (2.60 in.)
Depth	122.00 mm (4.80 in.)	143.00 mm (5.63 in.)
Input voltage	100 VAC to 240 VAC	100 VAC to 240 VAC
Input frequency	50 Hz to 60 Hz	50 Hz to 60 Hz
Input current (maximum)	1.7 A	1.80 A
Output current (continuous)	<ul style="list-style-type: none"> • 20 V/5 A (Continuous) • 15 V/3 A (Continuous) • 9 V/3 A (Continuous) • 5 V/3 A (Continuous) 	<ul style="list-style-type: none"> • 20 V/6.50 A (Continuous) • 5 V/1 A (Continuous)

Table 19. Power adapter specifications (continued)

Description	Option one	Option two
Rated output voltage	<ul style="list-style-type: none"> • 20 VDC • 15 VDC • 9 VDC • 5 VDC 	<ul style="list-style-type: none"> • 20 VDC • 5 VDC
Temperature range:		
Operating	0°C to 40°C (32°F to 104°F)	0°C to 40°C (32°F to 104°F)
Storage	-40°C to 70°C (-40°F to 158°F)	-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 Precision 5490.

Table 20. Battery specifications


Description	Values
Battery type	4-cell, 72 Wh, ExpressCharge Capable, Long Life Cycle
Battery voltage	15.40 VDC
Battery weight (maximum)	0.285 kg (0.63 lb)
Battery dimensions:	
Height	8.25 mm (0.32 in.)
Width	255.20 mm (10.05 in.)
Depth	65.70 mm (2.59 in.)
Temperature range:	
Operating	<ul style="list-style-type: none"> • Charge: 0°C to 50°C (32°F to 122°F) • Discharge: 0°C to 70°C (32°F to 158°F)
Storage	-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.
Battery charging time (approximate)	<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 100% RSOC is 3 hours <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> 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>	

Table 20. Battery specifications (continued)

Description	Values
	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 for Accelerated Charge
Coin-cell battery	No coin-cell. Supported by main battery
<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 Technologies recommends that you charge the battery regularly for optimal power consumption. If your battery charge is 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 Precision 5490.

Table 21. Display specifications

Description	Option one	Option two
Display type	14-inch Full High Definition+ (FHD+)	14-inch Quad High Definition (QHD+)
Touch options	No	Yes with active pen support
Display-panel technology	Wide-viewing angle (WVA) narrow bent, TÜV low blue light	Wide-viewing angle (WVA), WLED, TÜV low blue light
Display-panel dimensions (active area):		
	Height	188.49 mm (7.42 in.)
	Width	301.59 mm (11.87 in.)
	Diagonal	355.6 mm (14.00 in.)
Display-panel native resolution	1920 x 1200	2560 x 1600
Luminance (typical)	500 nits	500 nits
Megapixels	2.30	4.09
Color gamut	100% sRGB	100% sRGB
Pixels Per Inch (PPI)	161 ppi	216 PPI
Contrast ratio (minimum)	1000:1	1000:1
Response time (maximum)	35 ms	35 ms
Refresh rate	60 Hz	60 Hz
Horizontal view angle	+/- 88 degrees	+/- 88 degrees
Vertical view angle	+/- 88 degrees	+/- 88 degrees

Table 21. Display specifications (continued)

Description	Option one	Option two
Pixel pitch	0.1578 mm	0.1178 mm
Power consumption (maximum)	2.80 W	3.35 W
Anti-glare vs glossy finish	Anti-glare	Anti-Reflection and Anti-Smudge on touch screen

Fingerprint reader

The following table lists the fingerprint-reader specifications of your Precision 5490.


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


Table 22. Fingerprint reader specifications

Description	Values
Fingerprint-reader sensor technology	Capacitive
Fingerprint-reader sensor resolution	500 dpi
Fingerprint-reader sensor pixel size	<ul style="list-style-type: none">• X: 108• Y: 88

Sensor

The following table lists the sensor of your Precision 5490.

Table 23. Sensor

Sensor support
Ambient Light Sensor
Windows Auto Brightness
IR User Proximity Detection
Clover Falls+
Accelerometer
Adaptive Thermal Performance (Lap vs. Desk mode) requires Gyro/Accelerometer
 NOTE: This is for thermal only.
Hall Effect Sensor
Sensor Hub (integrated)

GPU—Integrated

The following table lists the specifications of the integrated Graphics Processing Unit (GPU) supported by your Precision 5490.

Table 24. GPU—Integrated

Controller	Memory size	Processor
Intel Arc Graphics	Shared system memory	Intel Core Ultra 5/7/9

GPU—Discrete

The following table lists the specifications of the discrete Graphics Processing Unit (GPU) supported by your Precision 5490.

Table 25. GPU—Discrete

Controller	Memory size	Memory type
NVIDIA RTX 1000 Ada Generation Laptop GPU	6 GB	GDDR6
NVIDIA RTX 2000 Ada Generation laptop GPU	8 GB	GDDR6
NVIDIA RTX 3000 Ada Generation laptop GPU	8 GB	GDDR6

Multiple display support matrix

The following table lists the multiple display support matrix for your Precision 5490.

Table 26. Multiple display support matrix

Graphics Card	Direct Graphics Controller Direct Output Mode	Supported external displays with computer internal display on	Supported external displays with computer internal display off
Intel Arc Graphics	Integrated	3	4

Hardware security

The following table lists the hardware security of your Precision 5490.

Table 27. Hardware security

Hardware security
Wedge-shaped lock slot
Chassis Intrusion Prevention Lock
TPM 2.0 discrete
FIPS 140-3 certification for TPM
Trusted Computing Group (TCG) Certification for TPM
No-TPM option (BIOS Disable TPM/BIOS KillTPM/Main TPM for Russia)
ControlVault 3 Advanced Authentication with FIPS 140-3 Level 3 Certification