

Precision 5690

Owner's Manual

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Views of Precision 5690

Right



Figure 1. Right view

1. SD-card slot (optional)

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 3.2 Gen 2 Type-C port with DisplayPort Alt Mode

Connect devices such as external storage devices, printers, and external displays. Provides data transfer rate of up to 10 Gbps.

Supports DisplayPort 1.4 and also enables you to connect an external display using a display adapter.

3. Wedge-shaped lock slot

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

Left



Figure 2. Left view

1. HDMI 2.1 port

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

2. Universal audio jack

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

3. Thunderbolt 4.0 (40 Gbps) port with Power Delivery

Supports USB4, DisplayPort 1.4, 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.

4. Smart-card reader slot (optional)

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. Microphones

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

2. Power button with 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.



Figure 4. Active fingerprint reader area

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. Haptics touchpad

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



Figure 5. Top view (computer shipped with optional NFC)

1. Microphones

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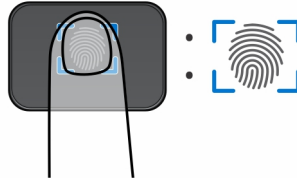


Figure 6. Active fingerprint reader area

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. NFC-sensor area

Enables NFC-enabled devices to communicate with your computer.

4. Haptics touchpad

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

Front

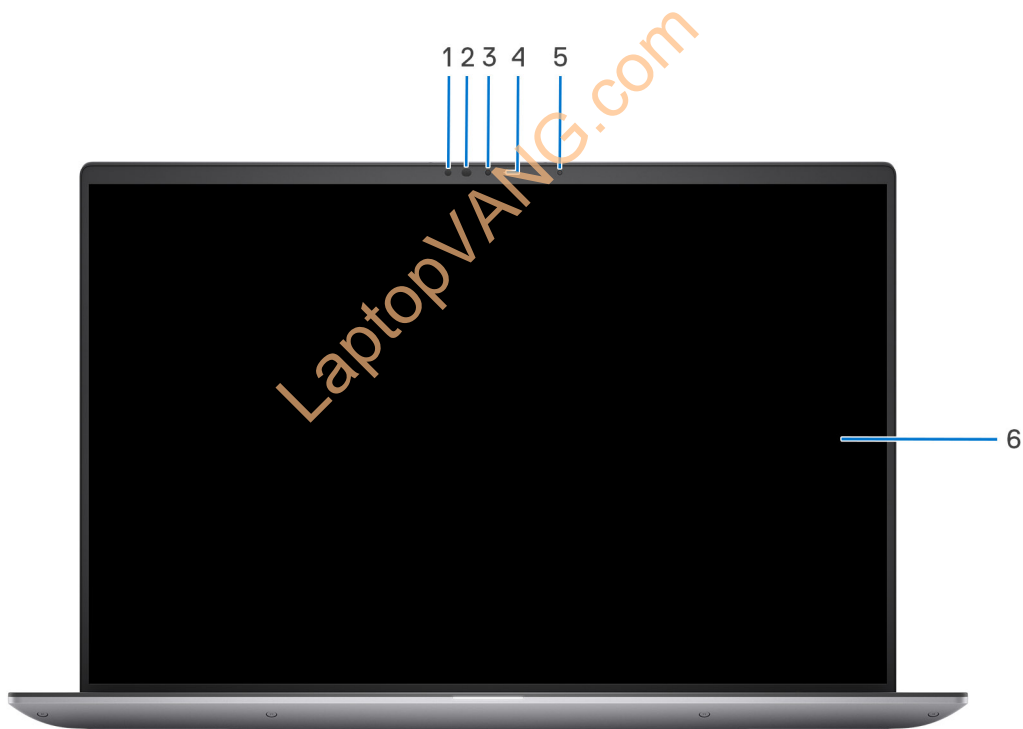


Figure 7. Front view

1. IR sensor

Provides digital sound input for audio recording and voice calls.

2. Infrared LED

Emits infrared light, which enables the infrared camera to sense and track motion.

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. Ambient-light sensor

The sensor detects the ambient light and automatically adjusts the keyboard backlight and display brightness.

6. Display

Provides visual output.

Bottom

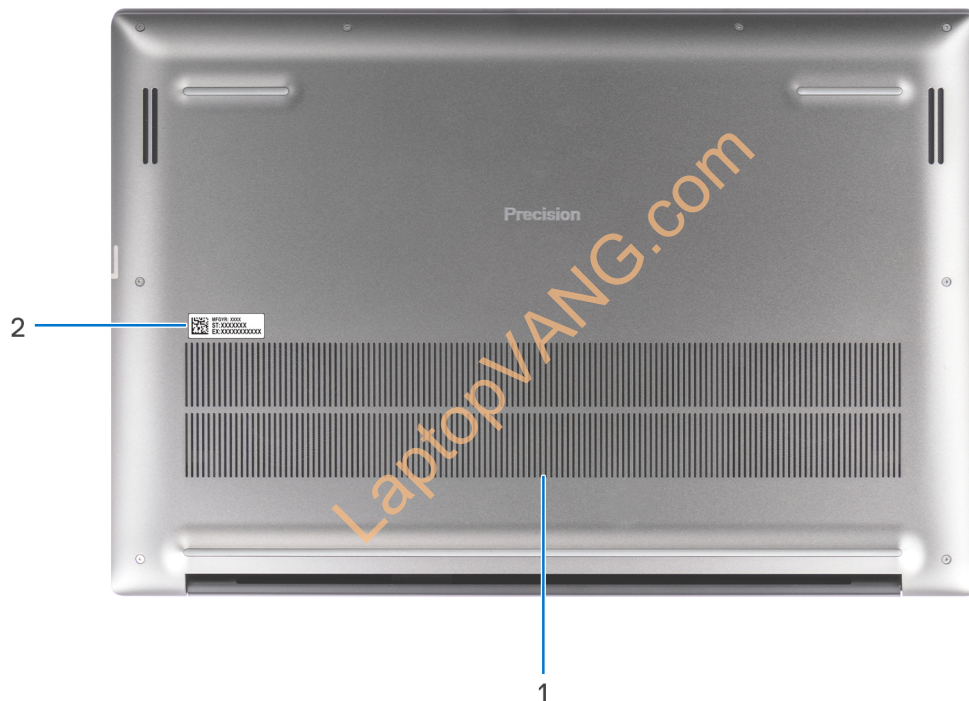


Figure 8. Bottom view

1. Air vents

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

2. 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.

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Figure 9. Service Tag

Battery charge and status light

The following table lists the battery charge and status light behavior of your Precision 5690.

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 5690

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 10. Connecting 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.
 - 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>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> <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>

Specifications of Precision 5690

Dimensions and weight

The following table lists the height, width, depth, and weight of your Precision 5690.

Table 4. Dimensions and weight

Description	Values
Height:	
Front height	20.50 mm (0.80 in.)
Rear height	22.17 mm (0.87 in.)
Width	353.68 mm (13.92 in.)
Depth	240.33 mm (9.46 in.)
Weight  NOTE: The weight of your computer depends on the configuration that is ordered and manufacturing variability.	2.17 kg (4.80 lb)

Processor

The following table lists the details of the processors that are supported for your Precision 5690.

Table 5. Processor

Description	Option one	Option two	Option three	Option four
Processor type	Intel Core Ultra 5 135H vPro	Intel Core Ultra 7 155H vPro Essentials	Intel Core Ultra 7 165H vPro	Intel Core Ultra 9 185H vPro
Processor wattage	45 W	45 W	45 W	45 W
Processor core count	14	16	16	16
Processor thread count	18	22	22	22
Processor speed	Up to 3.20 GHz	Up to 3.0 GHz	Up to 3.10 GHz	Up to 3.10 GHz
Processor cache	18 MB	24 MB	24 MB	24 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 5690.

Table 6. Chipset

Description	Values
Chipset	Intel MTL-H
Processor	<ul style="list-style-type: none">• Intel Core Ultra 5 135H vPro• Intel Core Ultra 7 155H vPro Essentials• Intel Core Ultra 7 165H vPro• Intel Core Ultra 9 185H vPro
DRAM bus width	128-bit
Flash EPROM	64 MB
PCIe bus	Up to Gen 4.0

Operating system

Your Precision 5690 supports the following operating systems:

- Windows 11 Home
- Windows 11 Pro
- Windows 11 Pro for Workstation
- Windows 11 Pro for Education
- Windows 11 Enterprise
- Ubuntu Linux 22.04 LTS, 64-bit
- Red Hat Linux 9.4

Memory

The following table lists the memory specifications of your Precision 5690.

Table 7. Memory specifications


Description	Values
Memory slots	Integrated on system board  NOTE: The memory is not replaceable or upgradeable. If memory has error, the system board must be replaced.
Memory type	Dual-channel LPDDR5x
Memory speed	7467 MT/s
Maximum memory configuration	64 GB
Minimum memory configuration	16 GB
Memory size per slot	16 GB, 32 GB, 64 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)

Table 7. Memory specifications (continued)

Description	Values
	<ul style="list-style-type: none"> 64 GB, LPDDR5x, 7467 MT/s, dual-channel (onboard)

External ports

The following table lists the external ports on your Precision 5690.

Table 8. External ports

Description	Values
USB ports	<ul style="list-style-type: none"> One USB 3.2 Gen 2 Type-C port with DisplayPort 1.4 Alt Mode Two Thunderbolt 4 (40 Gbps) ports with Power Delivery
Audio port	One universal audio port
Video port/ports	<ul style="list-style-type: none"> One USB 3.2 Gen 2 Type-C port with DisplayPort 1.4 Alt Mode Two Thunderbolt 4 (40 Gbps) ports with Power Delivery One HDMI 2.1 port
Media-card reader	One SD-card slot (optional)
Power-adaptor port	Two Thunderbolt 4 (40 Gbps) port with Power Delivery
Security-cable slot	One wedge-shaped lock slot

Internal slots

The following table lists the internal slots of your Precision 5690.

Table 9. Internal slots

Description	Values
M.2	<ul style="list-style-type: none"> Two M.2 2230/2280 for solid state drive <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>

Wireless module

The following table lists the Wireless Local Area Network (WLAN) module that is supported on your Precision 5690.

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

Table 10. Wireless module specifications (continued)

Description	Values
Wireless standards	<ul style="list-style-type: none"> • Wi-Fi 802.11a/b/g • Wi-Fi 4 (WiFi 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/128-bit WEP • AES-CCMP • TKIP
Bluetooth wireless card	Bluetooth 5.4 wireless card
	<p>i NOTE: The version of the Bluetooth wireless card may vary depending on the operating system that is installed on your computer.</p>

Audio

The following table lists the audio specifications of your Precision 5690.

Table 11. Audio specifications

Description	Values
Audio controller	Waves MaxxAudio 13
Stereo conversion	Supported
Internal audio interface	High definition audio interface
External audio interface	One universal audio port
Number of speakers	<ul style="list-style-type: none"> • 2 x Woofers • 2 x Tweeters
Internal-speaker amplifier	Supported
External volume controls	Keyboard shortcut controls
Speaker output:	
	Average speaker output
	<ul style="list-style-type: none"> • Woofer: 2 x 2 W • Tweeters: 2 x 2 W
	Peak speaker output
	<ul style="list-style-type: none"> • Woofer: 2 x 2.5 W • Tweeters: 2 x 2.5 W
Subwoofer output	Supported
Microphone	Dual-array microphones in camera assembly

Storage

This section lists the storage options on your Precision 5690.

Your Precision 5690 supports one of the following storage configurations:


Table 12. Storage specifications

Storage type	Interface type	Capacity
M.2 2230, Class 35 solid state drive	PCIe NVMe Gen 4	256 GB
M.2 2280, Class 40 solid state drive	PCIe NVMe Gen 4	512 GB/1 TB/2 TB/4 TB
M.2 2280, Class 40 Self-Encrypting Opal 2.0 solid state drive	PCIe NVMe Gen 4	512 GB/1 TB

Media-card reader

The following table lists the media cards that are supported on your Precision 5690.

Table 13. Media-card reader specifications

Description	Values
Media-card type	One SD-card slot (optional)
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 that is installed on your computer.	

Keyboard

The following table lists the keyboard specifications of your Precision 5690.

Table 14. Keyboard specifications

Description	Values
Keyboard type	AI hotkey backlit keyboard
Keyboard layout	QWERTY
Number of keys	<ul style="list-style-type: none">United States and Canada: 79 keysUnited Kingdom: 80 keysJapan: 83 keys
Keyboard size	19.05 mm 18.05 mm
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.

Table 14. Keyboard specifications (continued)

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

Camera

The following table lists the camera specifications of your Precision 5690.

Table 15. Camera specifications

Description	Values
Number of cameras	One
Camera type	FHD RGB + IR camera with HDR technology
Camera location	Front camera
Camera sensor type	CMOS sensor technology
Camera resolution:	
Still image	2.07 megapixel
Video	1920 x 1080 FHD at 30 fps
Infrared camera resolution:	
Still image	0.23 megapixel
Video	640 x 360 at 15 fps
Diagonal viewing angle:	
Camera	80 degrees
Infrared camera	80.6 degrees

Haptics touchpad

The following table lists the touchpad specifications of your Precision 5690.


Table 16. Touchpad specifications

Description	Values
Touchpad resolution:	300 dpi
Touchpad dimensions:	
Horizontal	136 mm (5.35 inch)
Vertical	85 mm (3.34 inch)
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 5690.

Table 17. Power adapter specifications

Description	Option one	Option two
Type	100 W AC Adapter, USB Type-C	165 W AC adapter, USB Type-C
Input voltage	100 VAC - 240 VAC	100 VAC - 240 VAC
Input frequency	50 Hz - 60 Hz	50 Hz - 60 Hz
Input current (maximum)	1.70 A	2.20 A
Output current (continuous)	<ul style="list-style-type: none"> • 20 V/5 A • 15 V/3 A • 9 V/3 A • 5 V/3 A 	<ul style="list-style-type: none"> • 28 V/5.89 A • 20 V/6.50 A • 15 V/3 A • 9 V/3 A • 5 V/3 A
Rated output voltage	5 VDC/9 VDC/15 VDC/20 VDC	5 VDC/9 VDC/15 VDC/20 VDC/28 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 158 °F)	-40 °C to 70 °C (-40 °F 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 5690.

Table 18. Battery specifications

Description	Option one	Option two
Battery type	6-cell 99.5 Whr lithium-ion battery	6-cell 99.5 Whr lithium-ion LcL battery
Battery voltage	11.55 VDC (Nominal)	11.55 VDC (Nominal)
Battery weight (maximum)	0.363 kg (0.8 lb)	0.363 kg (0.8 lb)
Battery dimensions:		
Height	7.66 mm (0.30 inch)	7.66 mm (0.30 inch)
Width	289 mm (11.38 inch)	289 mm (11.38 inch)
Depth	84.4 mm (3.32 inch)	85.4 mm (3.32 inch)
Temperature range:		
Operating	<ul style="list-style-type: none"> • Charge: 0°C to 50°C (32°F to 122°F) 	<ul style="list-style-type: none"> • Charge: 0°C to 50°C (32°F to 122°F) • Discharge: 0°C to 60°C (32°F to 140°F)

Table 18. Battery specifications (continued)

Description		Option one	Option two
		<ul style="list-style-type: none"> Discharge: 0°C to 60°C (32°F to 140°F) 	
	Storage	-20°C to 65°C (-4°F to 149°F)	-20°C to 65°C (-4°F to 149°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) ⓘ 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 .		<ul style="list-style-type: none"> 2 hours (Express charge) 3 hours (Standard charge) 	<ul style="list-style-type: none"> 2 hours (Express charge) 3 hours (Standard charge)
Coin-cell battery		No	No
<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 5690.

Table 19. Display specifications

Description		Option one	Option two
Display type		16" Full High-Definition Plus (FHD+)	16" Ultra High-Definition Plus (UHD+)
Touch options		No	Yes
Display-panel technology		IPS (In-plane switching)	OLED
Display-panel dimensions (active area):			
	Height	22.17 mm (0.87 in.)	22.17 mm (0.87 in.)
	Width	344.68 mm (13.57 in.)	344.45 mm (13.56 in.)
	Diagonal	406.40 mm (16 in.)	406.40 mm (16 in.)
Display-panel native resolution		1920 x 1200	3840 x 2400
Luminance (typical)		500 nits	400 nits
Megapixels		2.3	9.2
Color gamut		100% DCI-P3	100% DCI-P3

Table 19. Display specifications (continued)

Description	Option one	Option two
Pixels Per Inch (PPI)	142	283
Contrast ratio (minimum)	1300:1	100000:1
Response time (maximum)	30 ms	1 ms typical
Refresh rate	60 Hz	60 Hz
Horizontal view angle	+/- 85 degrees	+/- 85 degrees typical
Vertical view angle	+/- 85 degrees	+/- 85 degrees typical
Pixel pitch	0.18 mm	0.09 mm
Power consumption (maximum)	6.32 W	11.14 W
Anti-glare vs glossy finish	Anti-glare	Anti-smudge

Fingerprint reader

The following table lists the fingerprint-reader specifications of your Precision 5630.

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

Table 20. Fingerprint reader specifications

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

Sensor

The following table lists the sensor of your Precision 5690.

Table 21. Sensor

Sensor support
Accelerometer for adaptive thermal
Ambient light sensor
Windows auto-brightness
IR proximity sensor
Gyro + Accelerometer
Hall effect sensor
Sensor hub

GPU—Integrated

The following table lists the specifications of the integrated Graphics Processing Unit (GPU) supported by your Precision 5690.

Table 22. GPU—Integrated

Controller	Memory size	Processor
Intel Arc Graphics	Shared system memory	<ul style="list-style-type: none">• Intel Core Ultra 5 135H vPro• Intel Core Ultra 7 155H vPro Essentials• Intel Core Ultra 7 165H vPro• Intel Core Ultra 9 185H vPro

GPU—Discrete

The following table lists the specifications of the discrete Graphics Processing Unit (GPU) supported by your Precision 5690.

Table 23. GPU—Discrete

Controller	Memory size
NVIDIA RTX 1000 Ada Generation Laptop GPU	6 GB
NVIDIA RTX 2000 Ada Generation Laptop GPU	8 GB
NVIDIA RTX 3500 Ada Generation Laptop GPU	12 GB
NVIDIA RTX 4000 Ada Generation Laptop GPU	12 GB
NVIDIA RTX 5000 Ada Generation Laptop GPU	16 GB

Multiple display support matrix

The following table lists the multiple display support matrix for your Precision 5690.

Table 24. Multiple display support matrix

Graphics Card	Supported external displays
Intel Arc Graphics	Yes, supported on USB Type-C, Thunderbolt, and HDMI port.
NVIDIA RTX 1000 Ada Generation Laptop GPU	Yes, supported on the right side USB Type-C port only.
NVIDIA RTX 2000 Ada Generation Laptop GPU	Yes, supported on the right side USB Type-C port only.
NVIDIA RTX 3500 Ada Generation Laptop GPU	Yes, supported on the right side USB Type-C port only.
NVIDIA RTX 4000 Ada Generation Laptop GPU	Yes, supported on the right side USB Type-C port only.
NVIDIA RTX 5000 Ada Generation Laptop GPU	Yes, supported on the right side USB Type-C port only.

Hardware security

The following table lists the hardware security of your Precision 5690.

Table 25. Hardware security

Hardware security
Wedge-shaped lock slot
Chassis Intrusion Prevention Lock