XPS 15

Setup and Specifications

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.**

Contents

Set up your computer

1   Connect the power adapter and press the power button.

> ⓘ **NOTE: To conserve battery power, the computer might enter into power save mode. Connect the power adapter and press the power button to turn on the computer.**

2   Finish Windows setup.

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 1. Locate Dell apps

Dell Product Registration

Register your computer with Dell.

Dell Help & Support

Access help and support for your computer.

SupportAssist

Pro-actively checks the health of your computer's hardware and software. The SupportAssist OS Recovery tool troubleshoots issues with the operating system. For more information, see the SupportAssist documentation at www.dell.com/support.

> ⓘ **NOTE: In SupportAssist, click the warranty expiry date to renew or upgrade your warranty.**

Dell Update

Updates your computer with critical fixes and latest device drivers as they become available.

Dell Digital Delivery

Download software applications, which are purchased but not pre-installed on your computer.

4   Create recovery drive for Windows.

ⓘ | **NOTE: It is recommended to create a recovery drive to troubleshoot and fix problems that may occur with Windows.**

For more information, see Create a USB recovery drive for Windows.

Create a USB recovery drive for Windows

Create a recovery drive to troubleshoot and fix problems that may occur with Windows. An empty USB flash drive with a minimum capacity of 16 GB is required to create the recovery drive.
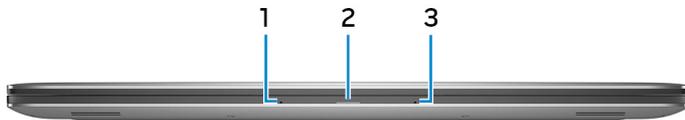
ⓘ **NOTE: This process may take up to an hour to complete.**

ⓘ **NOTE: The following steps may vary depending on the version of Windows installed. Refer to the Microsoft support site for latest instructions.**

1   Connect the USB flash drive to your computer.
2   In Windows search, type `Recovery`.
3   In the search results, click **Create a recovery drive**.
    The **User Account Control** window is displayed.
4   Click **Yes** to continue.
    The **Recovery Drive** window is displayed.
5   Select **Back up system files to the recovery drive** and click **Next**.
6   Select the **USB flash drive** and click **Next**.
    A message appears, indicating that all data in the USB flash drive will be deleted.
7   Click **Create**.
8   Click **Finish**.
    For more information about reinstalling Windows using the USB recovery drive, see the *Troubleshooting* section of your product's *Service Manual* at www.dell.com/support/manuals.

Views

Front

1   **Left microphone**

Provides digital sound input for audio recording and voice calls.

2   **Battery-status light**

Indicates the battery-charge status.

Solid amber—Battery charge is low.

Blinking amber—Battery charge is critical.

Solid white—Battery is charging.

Off—Battery is fully charged.

3   **Right microphone**

Provides digital sound input for audio recording and voice calls.

Left

1   **Power-adapter port**

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

2   **USB 3.1 Gen 1 port with PowerShare**

Connect peripherals such as external storage devices and printers.

Provides data transfer speeds up to 5 Gbps. PowerShare enables you to charge your USB devices even when your computer is turned off.

ⓘ **NOTE: If the charge on your computer's battery is less than 10 percent, you must connect the power adapter to charge your computer, and USB devices connected to the PowerShare port.**

> ⓘ **NOTE: If a USB device is connected to the PowerShare port before the computer is turned off or in hibernate state, you must disconnect and connect it again to enable charging.**

> ⓘ **NOTE: Certain USB devices may not charge when the computer is turned off or in sleep state. In such cases, turn on the computer to charge the device.**

3   **HDMI port**

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

4   **Thunderbolt 3 (USB 3.1 Gen 2 Type-C) port with Power delivery**

Supports USB 3.1 Gen 2, DisplayPort 1.2, Thunderbolt 3 and also enables you to connect to an external display using a display adapter. Provides data transfer rates up to 10 Gbps for USB 3.1 Gen 2 and up to 40 Gbps for Thunderbolt 3. Supports Power Delivery that enables two-way power supply between devices. Provides up to 5V/3A power output that enables faster charging.

> ⓘ **NOTE: Adapters (sold separately) are required to connect standard USB and DisplayPort devices.**

5   **Headset port**

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

Right

1   **SD-card slot**

Reads from and writes to the SD card.

2   **USB 3.1 Gen 1 port with PowerShare**

Connect peripherals such as external storage devices and printers.

Provides data transfer speeds up to 5 Gbps. PowerShare enables you to charge your USB devices even when your computer is turned off.

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3   **Battery-charge status lights (5)**

Turn on when the battery-charge status button is pressed. Each light indicates approximately 20% charge.

4   **Battery-charge status button**

Press to check the charge remaining in the battery.

5   **Security-cable slot (for Noble locks)**

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

D❤LL

Base

1 **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 10 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: Before using the fingerprint reader, configure it in Windows to recognize your fingerprint as a passcode and enable access. For more information, see www.dell.com/support/windows.**

   ⓘ **NOTE: You can customize power-button behavior in Windows. For more information, see *Me and My Dell* at www.dell.com/support/manuals.**

   ⓘ **NOTE: The power-status light on the power button is available only on computers without the optional fingerprint reader. Computers shipped with the fingerprint reader integrated on the power button will not have the power-status light on the power button.**

2 **Right-click area**
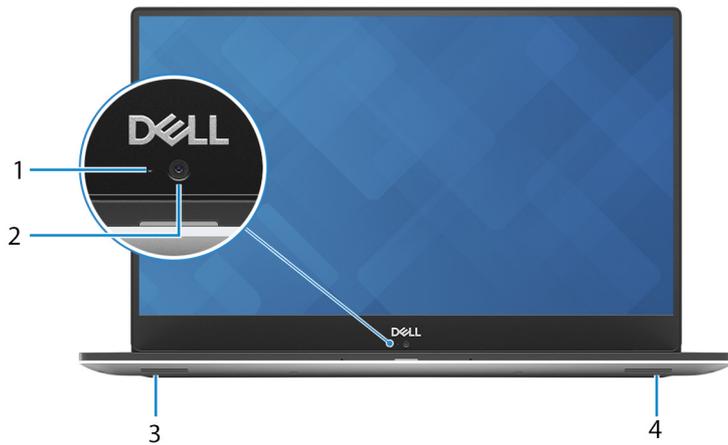
   Press to right-click.

3 **Touchpad**

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

4 **Left-click area**

   Press to left-click.

Display

1   **Camera-status light**

Turns on when the camera is in use.

2   **Camera**

Enables you to video chat, capture photos, and record videos.
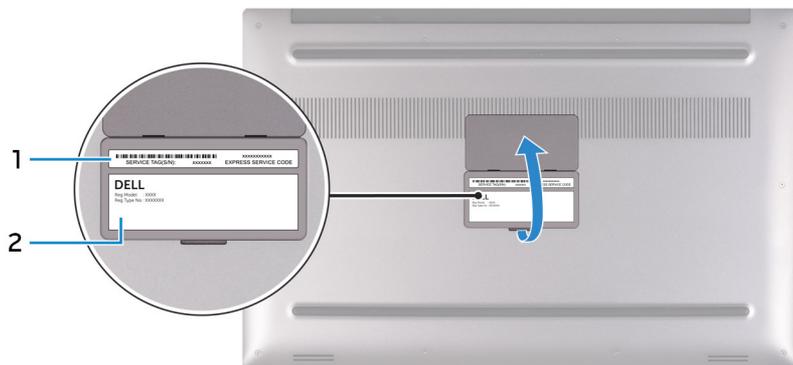
3   **Left speaker**

Provides audio output.

4   **Right speaker**

Provides audio output.

Bottom

1   **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.

2   **Regulatory label**

Contains regulatory information of your computer.

Specifications

Computer model

XPS 15-9570

System information

Table 2. System information

Processor	8th Generation Intel Core i5/i7/i9
Chipset	CM246

Dimensions and weight

Table 3. Dimensions and weight

Height	17 mm (0.66 in)
Width	357 mm (14.06 in)
Depth	235 mm (9.27 in)
Weight	Starting at 1.8 kg (4 lbs)

> (i) **NOTE: The weight of your laptop varies depending on the configuration ordered and the manufacturing variability.**

Operating system

- Windows 10 Home (64-bit)
- Windows 10 Professional (64-bit)

Memory

Table 4. Memory specifications

Slots		Two SODIMM slots
Type		Dual-channel DDR4
Speed		2666 MHz
Configurations supported		
	Per memory module slot	4 GB, 8 GB, and 16 GB
	Total memory	4 GB, 8 GB, 16 GB, and 32 GB

Ports and connectors

Table 5. Ports and connectors

External:	
USB	• Two USB 3.1 Gen 1 ports with PowerShare • One Thunderbolt 3 (USB 3.1 Gen 2 Type-C) port with Power delivery
Audio/Video	• One HDMI 2.0 port • One headset (headphone and microphone combo) port

Table 6. Ports and connectors

Internal:	
M.2 card	• One M.2 slot for solid-state drive (SATA or PCIe/NVMe) • One M.2 slot for WiFi and Bluetooth combo card

Communications

Table 7. Supported communications

Wireless	• Wi-Fi 802.11a/b/g/n/ac • Bluetooth 4.2

Wireless

Table 8. Wireless

Transfer rate (maximum)	867 Mbps
Frequency bands	2.4 GHz/5 GHz
Encryption	• 64-bit/128-bit WEP • AES-CCMP • TKIP

Audio

Table 9. Audio specifications

Controller	ALC3266-CG with Waves MaxxAudio Pro
Speakers	Two
Speaker output	• Average: 2 W

	• Peak: 2.5 W
Microphone	Dual-array microphones

Storage

Type	Interface	Capacity
One 2.5-inch Hard Disk Drive (HDD)	SATA Gen 3, up to 6 Gbps	Up to 2 TB
One M.2 2280 Solid-State Drive (SSD)	• SATA Gen 3, up to 6 Gbps • PCIe Gen 3x4 NVMe, up to 8 Gbps	• Up to 128 GB • Up to 2 TB

Media-card reader

Type	One SD-card slot
Cards supported	• SD card • SD High Capacity (SDHC) • SD Extended Capacity (SDXC)

Keyboard

Type	Backlit keyboard
Shortcut keys	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: Press Fn+Esc to switch the primary behavior of the function keys (F1–F12) between two modes – multimedia key mode and function key mode. ⓘ NOTE: You can define the primary behavior of the function keys (F1-F12) by changing Function Key Behavior in BIOS setup program. Keyboard shortcuts

Camera

Resolution	
Camera	• Still image: 0.92 megapixel (HD)

- Video: 1280 x 720 (HD) at 30 fps

Diagonal viewing angle	
Camera	75 degrees

Touchpad

Table 14. Touchpad

Resolution	- Horizontal: 1219 - Vertical: 919
Dimensions	- Width: 105 mm (4.13 in) - Height: 80 mm (3.15 in)

Touchpad gestures

For more information about touchpad gestures for Windows 10, see the Microsoft knowledge base article 4027871 at support.microsoft.com.

Power adapter

Table 15. Power adapter specifications

Type	130 W
Dimensions (connector)	4.50 mm
Input voltage	100 VAC–240 VAC
Input frequency	50 Hz–60 Hz
Input current (maximum)	1.80 A
Output current (continuous)	6.67 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)

Battery

Table 16. Battery specifications

Type	3-cell lithium ion (56 WHr)	6-cell lithium ion (97 WHr)
Dimensions:		
Width	71.80 mm (2.83 in)	71.80 mm (2.83 in)
Depth	223.20 mm (8.79 in)	330.50 mm (13.01 in)
Height	7.20 mm (0.28 in)	7.20 mm (0.28 in)

Weight (maximum)	0.24 kg (0.54 lb)	0.34 kg (0.76 lb)
Voltage	11.40 VDC	11.40 VDC
Charging time when the computer is off (approximate)	4 hours	4 hours
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.
Life span (approximate)	300 discharge/charge cycles	300 discharge/charge cycles
Temperature range:		
Operating	0°C to 35°C (32°F to 95°F)	0°C to 35°C (32°F to 95°F)
Storage	−40°C to 65°C (−40°F to 149°F)	−40°C to 65°C (−40°F to 149°F)
Coin-cell battery	ML1220	ML1220

ⓘ **NOTE:** It is recommended that you use a Dell coin-cell battery for your computer. Dell does not provide warranty coverage for problems caused by using accessories, parts, or components not supplied by Dell.

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Display

Table 17. Display specifications

Type	15.6-inch FHD non-touchscreen	15.6-inch UHD touchscreen
Resolution (maximum)	1920 x 1080	3840 x 2160
Pixel pitch	0.179 mm	0.089 mm
Panel technology	In-Plane Switching (IPS)	In-Plane Switching (IPS)
Viewing angle (Left/Right/Down/Up)	80/80/80/80 degrees	80/80/80/80 degrees
Refresh rate	60 Hz	60 Hz
Operating angle	0 degrees (closed) to 135 degrees	0 degrees (closed) to 135 degrees
Controls	Brightness can be controlled using shortcut keys	Brightness can be controlled using shortcut keys
Dimensions:		
Height (excluding bezel)	193.59 mm (7.62 in)	193.62 mm (7.62 in)
Width (excluding bezel)	344.16 mm (13.54 in)	344.21 mm (13.55 in)
Diagonal (excluding bezel)	394.90 mm (15.6 in)	394.90 mm (15.6 in)

Fingerprint reader

Table 18. Fingerprint reader

Sensor technology	Touch
Sensor resolution	108 pixels x 88 pixels
Sensor area	5.5 mm x 4.5 mm

Video

Table 19. Video specifications

Type	Integrated	Discrete
Controller	Intel UHD Graphics 630	• NVIDIA GeForce GTX 1050 • NVIDIA GeForce GTX 1050 Ti
Memory	Shared system memory	4 GB

Computer environment

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

Table 20. Computer environment

	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 (maximum)	−15.2 m to 3048 m (−50 ft to 10,000 ft)	−15.2 m to 10,668 m (−50 ft to 35,000 ft)

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

† Measured using a 2 ms half-sine pulse when the hard drive is in use.

‡ Measured using a 2 ms half-sine pulse when the hard-drive head is in parked position.

Keyboard shortcuts

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

Table 21. List of keyboard shortcuts

Keys	Description
F1	Mute audio
F2	Decrease volume
F3	Increase volume
F4	Play previous track/chapter
F5	Play/Pause
F6	Play next track/chapter
F8	Switch to external display
F9	Search
F10	Toggle keyboard backlight
F11	Decrease brightness
F12	Increase brightness

Keys	Description
Fn + PrtScr	Turn off/on wireless
Fn + Insert	Sleep
Fn + Esc	Toggle Fn-key lock

Getting help and contacting Dell

Self-help resources

You can get information and help on Dell products and services using these self-help resources:

Table 22. Self-help resources

Information about Dell products and services	www.dell.com
Dell Help & Support app	
Accessing help	In Windows search, type `Help and Support`, and press Enter.
Online help for operating system	www.dell.com/support/windows
Troubleshooting information, user manuals, setup instructions, product specifications, technical help blogs, drivers, software updates, and so on.	www.dell.com/support
Dell knowledge base articles for a variety of computer concerns.	1 Go to www.dell.com/support. 2 Type the subject or keyword in the **Search** box. 3 Click **Search** to retrieve the related articles.
Learn and know the following information about your product: • Product specifications • Operating system • Setting up and using your product • Data backup • Troubleshooting and diagnostics • Factory and system restore • BIOS information	See *Me and My Dell* at www.dell.com/support/manuals. To locate the *Me and My Dell* relevant to your product, identify your product through one of the following: • Select **Detect Product**. • Locate your product through the drop-down menu under **View Products**. • Enter the **Service Tag number** or **Product ID** in the search bar.

Contacting Dell

To contact Dell for sales, technical support, or customer service issues, see www.dell.com/contactdell.

ⓘ **NOTE: Availability varies by country and product, and some services may not be available in your country.**

ⓘ **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.**