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.
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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](http://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.
3 **HDMI port**

Connect to 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.

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

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 |

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

**Table 10. Storage specifications**

<table>
<thead>
<tr>
<th>Type</th>
<th>Interface</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>One 2.5-inch Hard Disk Drive (HDD)</td>
<td>SATA Gen 3, up to 6 Gbps</td>
<td>Up to 2 TB</td>
</tr>
<tr>
<td>One M.2 2280 Solid-State Drive (SSD)</td>
<td>• SATA Gen 3, up to 6 Gbps</td>
<td>• Up to 128 GB</td>
</tr>
<tr>
<td></td>
<td>• PCIe Gen 3x4 NVMe, up to 32 Gbps</td>
<td>• Up to 2 TB</td>
</tr>
</tbody>
</table>

### Media-card reader

**Table 11. Media-card reader specifications**

<table>
<thead>
<tr>
<th>Type</th>
<th>Cards supported</th>
</tr>
</thead>
<tbody>
<tr>
<td>One SD-card slot</td>
<td>• SD card</td>
</tr>
<tr>
<td></td>
<td>• SD High Capacity (SDHC)</td>
</tr>
<tr>
<td></td>
<td>• SD Extended Capacity (SDXC)</td>
</tr>
</tbody>
</table>

### Keyboard

**Table 12. Keyboard specifications**

<table>
<thead>
<tr>
<th>Type</th>
<th>Backlit keyboard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shortcut keys</td>
<td>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.</td>
</tr>
</tbody>
</table>

1. **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.

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

### Camera

**Table 13. Camera specifications**

<table>
<thead>
<tr>
<th>Resolution</th>
<th>Camera</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>• Still image: 0.92 megapixel (HD)</td>
</tr>
</tbody>
</table>
Video: 1280 x 720 (HD) at 30 fps

Diagonal viewing angle
Camera 75 degrees

**Touchpad**

**Table 14. Touchpad**

<table>
<thead>
<tr>
<th>Resolution:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Horizontal</td>
<td>1219</td>
</tr>
<tr>
<td>Vertical</td>
<td>919</td>
</tr>
<tr>
<td>Dimensions:</td>
<td></td>
</tr>
<tr>
<td>Width</td>
<td>105 mm (4.13 in)</td>
</tr>
<tr>
<td>Height</td>
<td>80 mm (3.15 in)</td>
</tr>
</tbody>
</table>

**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**

<table>
<thead>
<tr>
<th>Type</th>
<th>130 W</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions (connector)</td>
<td>4.50 mm</td>
</tr>
<tr>
<td>Input voltage</td>
<td>100 VAC–240 VAC</td>
</tr>
<tr>
<td>Input frequency</td>
<td>50 Hz–60 Hz</td>
</tr>
<tr>
<td>Input current (maximum)</td>
<td>1.80 A</td>
</tr>
<tr>
<td>Output current (continuous)</td>
<td>6.67 A</td>
</tr>
<tr>
<td>Rated output voltage</td>
<td>19.50 VDC</td>
</tr>
<tr>
<td>Temperature range:</td>
<td></td>
</tr>
<tr>
<td>Operating</td>
<td>0°C to 40°C (32°F to 104°F)</td>
</tr>
<tr>
<td>Storage</td>
<td>–40°C to 70°C (–40°F to 158°F)</td>
</tr>
</tbody>
</table>

**Battery**

**Table 16. Battery specifications**

<table>
<thead>
<tr>
<th>Type</th>
<th>3-cell lithium ion (56 WHr)</th>
<th>6-cell lithium ion (97 WHr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Width</td>
<td>71.80 mm (2.83 in)</td>
<td>71.80 mm (2.83 in)</td>
</tr>
</tbody>
</table>
### Display

**Table 17. Display specifications**

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

**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.

### Fingerprint reader

**Table 18. Fingerprint reader**

<table>
<thead>
<tr>
<th>Type</th>
<th>Touch</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sensor technology</td>
<td>Touch</td>
</tr>
<tr>
<td>Sensor resolution</td>
<td>108 pixels x 88 pixels</td>
</tr>
</tbody>
</table>
Video

Table 19. Video specifications

<table>
<thead>
<tr>
<th>Type</th>
<th>Integrated</th>
<th>Discrete</th>
</tr>
</thead>
<tbody>
<tr>
<td>Controller</td>
<td>Intel UHD Graphics 630</td>
<td>· NVIDIA GeForce GTX 1050</td>
</tr>
<tr>
<td></td>
<td></td>
<td>· NVIDIA GeForce GTX 1050 Ti</td>
</tr>
<tr>
<td>Memory</td>
<td>Shared system memory</td>
<td>4 GB</td>
</tr>
</tbody>
</table>

Computer environment

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

Table 20. Computer environment

<table>
<thead>
<tr>
<th></th>
<th>Operating</th>
<th>Storage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature range</td>
<td>0°C to 35°C (32°F to 95°F)</td>
<td>-40°C to 65°C (-40°F to 149°F)</td>
</tr>
<tr>
<td>Relative humidity (maximum)</td>
<td>10% to 90% (non-condensing)</td>
<td>0% to 95% (non-condensing)</td>
</tr>
<tr>
<td>Vibration (maximum)*</td>
<td>0.66 GRMS</td>
<td>1.30 GRMS</td>
</tr>
<tr>
<td>Shock (maximum)</td>
<td>110 G†</td>
<td>160 G‡</td>
</tr>
<tr>
<td>Altitude (maximum)</td>
<td>-15.2 m to 3048 m (−50 ft to 10,000 ft)</td>
<td>-15.2 m to 10,668 m (−50 ft to 35,000 ft)</td>
</tr>
</tbody>
</table>

* 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

*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

<table>
<thead>
<tr>
<th>Keys</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>F1</td>
<td>Mute audio</td>
</tr>
<tr>
<td>F2</td>
<td>Decrease volume</td>
</tr>
<tr>
<td>F3</td>
<td>Increase volume</td>
</tr>
<tr>
<td>F4</td>
<td>Play previous track/chapter</td>
</tr>
<tr>
<td>F5</td>
<td>Play/Pause</td>
</tr>
<tr>
<td>F6</td>
<td>Play next track/chapter</td>
</tr>
<tr>
<td>F8</td>
<td>Switch to external display</td>
</tr>
<tr>
<td>F9</td>
<td>Search</td>
</tr>
<tr>
<td>F10</td>
<td>Toggle keyboard backlight</td>
</tr>
<tr>
<td>F11</td>
<td>Decrease brightness</td>
</tr>
<tr>
<td>F12</td>
<td>Increase brightness</td>
</tr>
<tr>
<td>Keys</td>
<td>Description</td>
</tr>
<tr>
<td>----------------------</td>
<td>------------------------------</td>
</tr>
<tr>
<td>Fn + PrtScr</td>
<td>Turn off/on wireless</td>
</tr>
<tr>
<td>Fn + Insert</td>
<td>Sleep</td>
</tr>
<tr>
<td>Fn + Esc</td>
<td>Toggle Fn-key lock</td>
</tr>
</tbody>
</table>
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

<table>
<thead>
<tr>
<th>Information about Dell products and services</th>
<th><a href="http://www.dell.com">www.dell.com</a></th>
</tr>
</thead>
<tbody>
<tr>
<td>Dell Help &amp; Support app</td>
<td></td>
</tr>
</tbody>
</table>

Accessing help

Online help for operating system

Troubleshooting information, user manuals, setup instructions, product specifications, technical help blogs, drivers, software updates, and so on.

Dell knowledge base articles for a variety of computer concerns.

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.