Inspiron 15 7000 Gaming
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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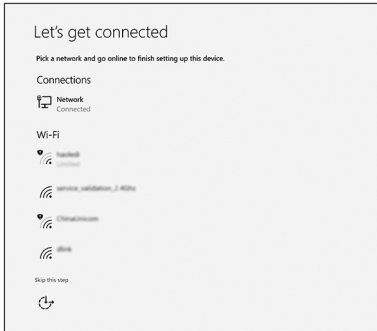
Set up your computer

1 Connect the power adapter and press the power button.

2   Finish operating system setup.

For Windows:

a)   Connect to a network.

Let's get connected

Pick a network and go online to finish setting up this device.

Connections

Network
Connected

Wi-Fi

Skip this step

b)   Sign-in to your Microsoft account or create a new account.

Make it yours

Your Microsoft account opens a world of benefits. Learn more

Email or phone

Password

Forgot my password

No account? Create one!

Microsoft privacy statement

Sign in
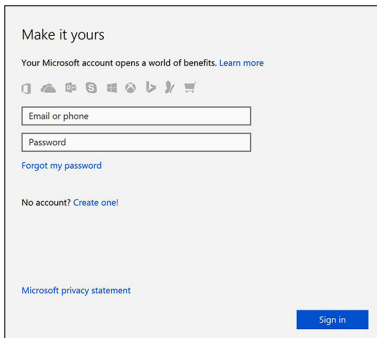
For Ubuntu:

Follow the instructions on the screen to finish setup.

📝 **NOTE: Ensure that you download the Dell Power Manager (DPM 3.0) from** <u>Dell.com/support</u> **before connecting a Dell docking station. For more information on setting up your Dell docking station, see** *Dell Docking Solution User's Guide* **at** <u>Dell.com/support/manuals</u>**.**
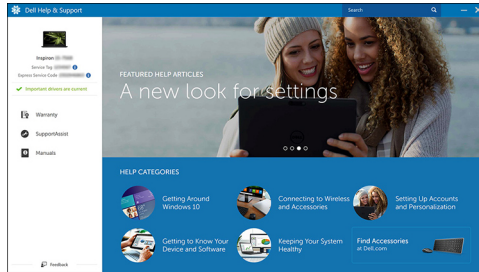
3 Locate Dell apps in Windows.

Table 1. Locate Dell apps

Register your computer

Dell Help & Support

SupportAssist—Check and update 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

Dell recommends that you 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: 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**.

> **NOTE: This process may take several minutes to complete.**

8 Click **Finish**.

Reinstall Windows using a USB recovery drive

> ⚠️ **CAUTION: This process formats the hard drive and removes all data on your computer. Ensure that you back up data on your computer before beginning this task.**

> **NOTE: Before reinstalling Windows, ensure your computer has more than 2 GB of memory and more than 32 GB of storage space.**

1 Connect the USB recovery drive to your computer.
2 Restart your computer.

3 Press F12 after the Dell logo is displayed on the screen to access the boot menu.

A **Preparing one-time boot menu** message appears.

4 After the boot menu loads, select the USB recovery device under **UEFI BOOT**.

The system reboots and a screen to **Choose the keyboard layout** is displayed.

5 Choose your keyboard layout.

6 In the **Choose an option** screen, click **Troubleshoot**.

7 Click **Recover from a drive**.

8 Choose one of the following options:

 – **Just remove my files** to do a quick format.

 – **Fully clean the drive** to do a complete format.

9 Click **Recover** to start the recovery process.

This will take several minutes to complete and your computer will restart during this process.

Views

Front
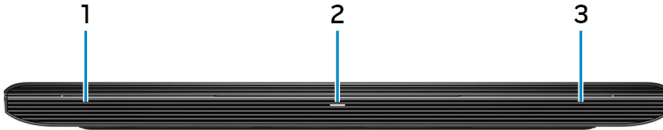
1   **Left speaker**

Provides audio output.

2   **Power and battery-status light/hard-drive activity light**

Indicates the battery-charge status or the hard-drive activity.

> 📝 **NOTE: Press Fn+H to toggle between the power and battery-status light, and hard-drive activity light.**

Hard-drive activity light

Turns on when the computer reads from or writes to the hard drive.

Power and battery-status light

Indicates the power and battery-charge status.

Solid white — Power adapter is connected and the battery has more than 5% charge.

Amber — Computer is running on battery and the battery has less than 5% charge.

Off

– Power adapter is connected and the battery is fully charged.

– Computer is running on battery and the battery has more than 5% charge.

– Computer is in sleep state, hibernation, or turned off.

3   **Right speaker**

Provides audio output.

Left
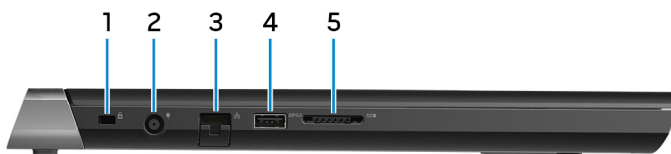
1   **Security-cable slot (for Noble locks)**

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

2   **Power-adapter port**

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

3   **Network port**

Connect an Ethernet (RJ45) cable from a router or a broadband modem for network or Internet access.

4   **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.**
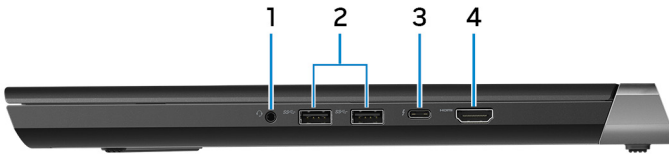
> **NOTE: Certain USB devices may not charge when the computer is turned off or in sleep state. In such cases, turn on the computer to charge the device.**

5   **Media-card reader**

Reads from and writes to media cards.

Right

1 **Headset port**

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

2 **USB 3.1 Gen 1 ports (2)**

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

3 **Thunderbolt 3 (USB 3.1 Gen 2 Type-C) port/DisplayPort**

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.

4 **HDMI port**

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

Base

1 **Left-click area**

Press to left-click.

2 **Touchpad**

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

3 **Right-click area**

Press to right-click.

4 **Powerbutton with optional fingerprint reader**

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

Press to put the computer in sleep state if it is turned on.

Press and hold the power button for four seconds to force shut-down the computer.

Place your finger on the fingerprint reader to log in to your computer. The fingerprint reader enables your computer to recognize your fingerprints as a passcode.

> ![note icon] **NOTE: You must configure the fingerprint reader to register your fingerprint and enable access.**

> ![note icon] **NOTE: You can customize the power-button behavior in Power Options. For more information, see** *Me and My Dell* **at** https://www.dell.com/support/manuals**.**

Display
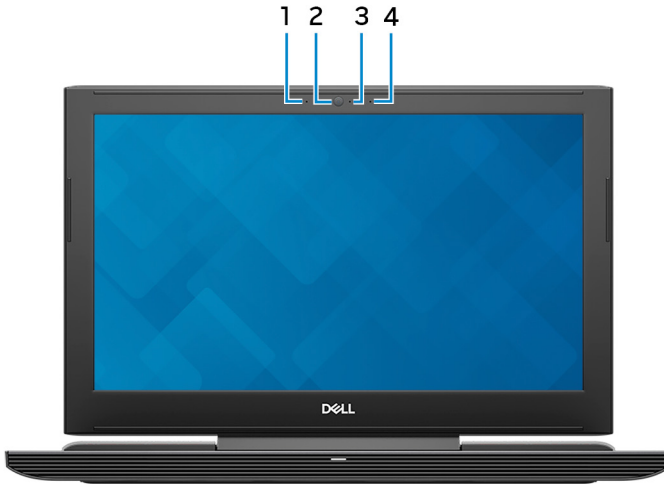
1 **Left microphone**

Provides digital sound input for audio recording and voice calls.

2 **Camera**

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

3 **Camera-status light**

Turns on when the camera is in use.

4 **Right microphone**

Provides digital sound input for audio recording and voice calls.

Bottom
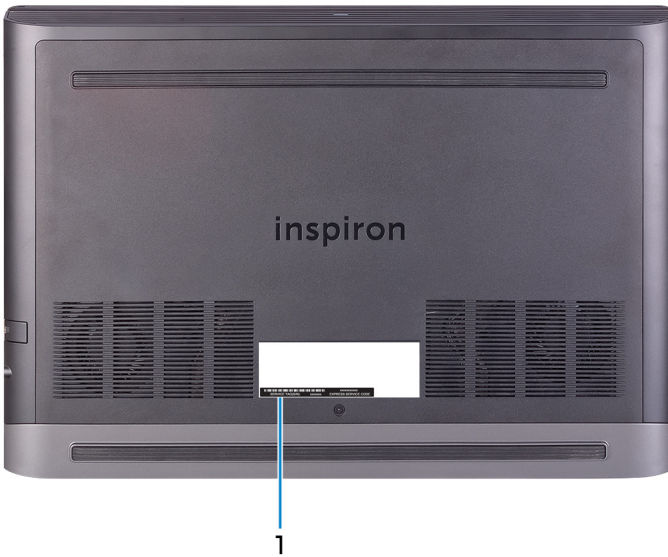
1   **Service Tag label**

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.

Specifications

Dimensions and weight

Table 2. Dimensions and weight

Height	24.95 mm (0.98 in)
Width	389 mm (15.31 in)
Depth	274.70 mm (10.81 in)
Weight (maximum)	2.66 kg (5.86 lbs)

> **NOTE: The weight of your computer varies depending on the configuration ordered and the manufacturing variability.**

Computer model

Table 3. Computer model

Computer model	Inspiron 15-7577

System information

Table 4. System information

Processor	7th generation Intel Core i5/i7
Chipset	Intel HM175

Operating system

Table 5. Operating system

Operating systems supported	• Ubuntu

- Win10 Pro Standard
- Win10 Home Standard
- Win10 Home Plus

Memory

Table 6. Memory specifications

Slots	Two SODIMM slots
Type	DDR4
Speed	2400 MHz
Configurations supported	
Per memory module slot	4 GB, 8 GB, and 16 GB
Total memory	4 GB, 8 GB, 12 GB, 16 GB, and 32 GB

Ports and connectors

Table 7. Ports and connectors

External	
Network	One RJ-45 port
USB	• Two USB 3.1 Gen 1 ports • One USB 3.1 Gen 1 port with PowerShare • Thunderbolt 3 (USB 3.1 Gen 2 Type-C) port/DisplayPort
Audio/Video	• One HDMI 2.0a port • One headset (headphone and microphone combo) port

Table 8. Ports and connectors

Internal	
M.2 Card	• One M.2 card slot for SSD card • One M.2 slot for WiFi/Bluetooth

Communications

Table 9. Supported communications

Ethernet	10/100/1000 Mbps Ethernet controller integrated on system board
Wireless	• Wi-Fi 802.11ac • Bluetooth 4.1/Bluetooth 4.2 **NOTE: Windows 10 currently supports up to Bluetooth 4.1.** • Miracast

Wireless module

Table 10. Wireless module specifications

Transfer rate	867 Mbps (max)
Frequency bands supported	Dual band 2.4 GHz/5 GHz
Encryption	• 64-bit and 128-bit WEP • TKIP • AES-CCMP

Audio

Table 11. Audio specifications

Controller	Realtek ALC3246 with Waves MaxxAudio Pro
Speakers	Two

Speaker Output	• Average: 2 W • Peak: 2 W
Microphone	Digital-array microphones
Volume controls	Media-control shortcut keys

Storage

Table 12. Storage specifications

Interface	• SATA 6 Gbps • PCIe/NVMe
Hard drive	One 2.5-inch drive (SATA)
Solid-state drive (SSD)	One M.2 drive (SATA or PCIe/NVMe)
Capacity	
Hard drive	Up to 2 TB
SSD	• SATA: Up to 256 GB • PCIe/NVMe: Up to 512 GB

Media-card reader

Table 13. Media-card reader specifications

Type	One 2-in-1 slot
Cards supported	• SD card • Multimedia Card (MMC)

Keyboard

Table 14. Keyboard specifications

Type	• Backlit keyboard

	· Non-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: For better gaming experience, the tactile indicator is available on the S 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

Table 15. Camera specifications

Resolution	· Still image: 0.92 megapixel · Video: 1280 x 720 (HD) at 30 fps (maximum)
Diagonal viewing angle	74.9 degrees

Touchpad

Table 16. Touchpad specifications

Resolution	· Horizontal: 1228

	• Vertical: 928
Dimensions	• Width: 105 mm (4.14 in) • Height: 80 mm (3.15 in)

Battery

Table 17. Battery specifications

Type	4-cell "smart" lithium-ion (56 WHr)
Dimensions	
Height	5.90 mm (0.23 in)
Width	98.20 mm (3.87 in)
Depth	233.37 mm (9.19 in)
Weight (maximum)	0.25 kg (0.55 lb)
Voltage	15.20 VDC
Charging time (approximate)	4 hours (when the computer is off)
Operating time	Varies depending on operating conditions and can significantly reduce under certain power-intensive conditions.
Life span (approximate)	300 discharge/charge cycles
Temperature range	• Operating: 0°C to 35°C (32°F to 95°F) • Storage: −40°C to 65°C (−40°F to 149°F)
Coin-cell battery	CR-2032

Power adapter

Table 18. Power adapter specifications

Type	130 W	180 W
Input current (maximum)	2.50 A	2.50 A
Output current (continuous)	6.70A	9.23 A
Diameter (connector)	7.4 mm	
Input voltage	100 VAC–240 VAC	
Input frequency	50 Hz–60 Hz	
Temperature range	• Operating: 0°C to 40°C (32°F to 104°F) • Storage: −40°C to 70°C (−40°F to 158°F)	

Video

Table 19. Video specifications

	Integrated	Discrete
Controller	Intel HD Graphics 630	• NVIDIA GeForce GTX 1050 • NVIDIA GeForce GTX 1050 Ti • NVIDIA GeForce GTX 1060 Max-Q Design
Memory	Shared system memory	• 4 GB GDDR5 • 6 GB GDDR5 (NVIDIA GeForce GTX 1060 Max-Q Design)

Display

Table 20. Display specifications

Type	15-inch FHD IPS (In-plane switching) panel	15-inch UHD IPS (In-plane switching) panel
Resolution (maximum)	1920 x 1080	3840 x 2160
Viewing angle (Left/Right/Up/Down)	80/80/80/80 (In-plane switching panel)	80/80/80/80(In-plane switching panel)
Pixel pitch	0.179 mm	0.090 mm
Dimensions		
Height	193.59 mm (7.62 in)	194.40 mm (7.65 in)
Width	344.16 mm (13.54 in)	345.60 mm (13.60 in)
Diagonal (LCD active area)	394.87 mm (15.55 in)	396.52 mm (15.61 in)
Refresh rate	60 Hz	
Operating angle	0 degree (closed) to 135 degrees	
Controls	Brightness can be controlled using shortcut keys	

Computer environment

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

Table 21. 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	−15.2 m to 10,668 m

	Operating	Storage
	(−50 ft to 10,000 ft)	(−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

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

Table 22. 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 (optional)
F11	Decrease brightness
F12	Increase brightness
Fn + PrtScr	Turn off/on wireless
Fn + B	Pause/Break

Keys	Description
Fn + Insert	Sleep
Fn + S	Toggle scroll lock
Fn + H	Toggle between power and battery-status light/hard-drive activity light **NOTE: Hard-drive activity light is supported only on computers shipped with a hard drive.**
Fn + R	System request
Fn + Ctrl	Open application menu
Fn + Esc	Toggle Fn-key lock
Fn + End →	End
Fn + ←Home	Home
Fn + ↓ PgDn	Page down
Fn + ↑ PgUp	Page up

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 23. 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 www.dell.com/support/linux
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	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**.

- Factory and system restore
- BIOS information

- 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.