

# Inspiron 15 5000 Gaming Setup and Specifications

**Computer Model:** Inspiron 15-5577  
**Regulatory Model:** P57F  
**Regulatory Type:** P57F003



# Notes, cautions, and warnings

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**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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# Contents

- Set up your computer..... 5**
- Views..... 8**
  - Front..... 8
  - Left..... 8
  - Right..... 9
  - Base.....10
  - Display..... 11
  - Bottom.....12
- Specifications.....13**
  - Dimensions and weight..... 13
  - System information..... 13
  - Memory..... 13
  - Ports and connectors.....14
  - Communications..... 14
  - Audio.....15
  - Storage..... 15
  - Media-card reader..... 16
  - Keyboard.....16
  - Camera..... 16
  - Touch pad..... 17
  - Power adapter.....17
  - Battery..... 17
  - Display..... 18
  - Video..... 19
  - Computer environment..... 19



**Keyboard shortcuts.....20**

**Getting help and contacting Dell.....22**

    Self-help resources.....22

    Contacting Dell.....22



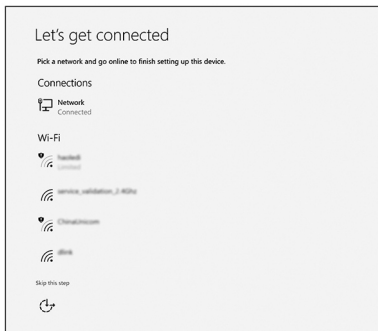
# Set up your computer

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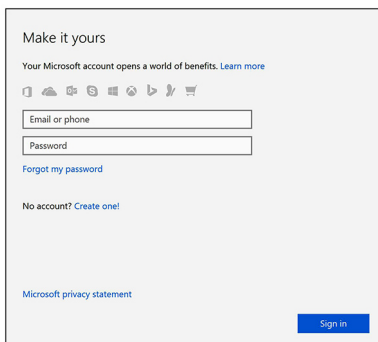
- 1 Connect the power adapter, and press the power button.



- 2 Finish operating system setup.
- a) Connect to a network.



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



3 Locate Dell apps in Windows.

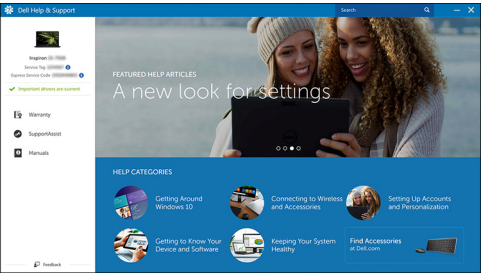
**Table 1. Locate Dell apps**



Register your computer



Dell Help and Support



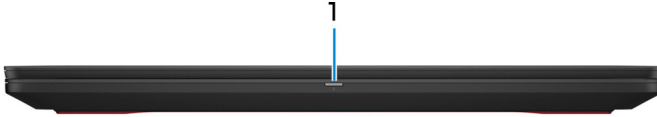
SupportAssist — Check and update your computer



# Views

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## Front



### 1 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 this light between 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.

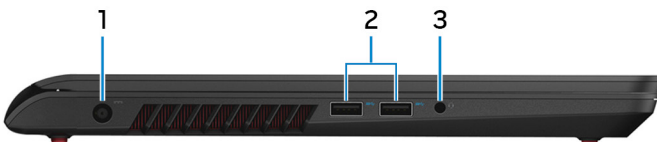
**Solid white** — Power adapter is connected and the battery has more than 5% charge.

**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.

## Left





1 **Power-adaptor port**

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

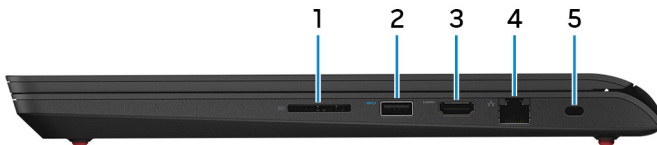
2 **USB 3.0 ports (2)**

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

3 **Headset port**

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

## Right



1 **Media-card reader**

Reads from and writes to media cards.

2 **USB 3.0 port with PowerShare**

Connect peripherals such as 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 your computer is turned off or in hibernate state, you must connect the power adapter to charge your devices using the PowerShare port. You must enable this feature in the BIOS setup program.**



**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 **Network port**

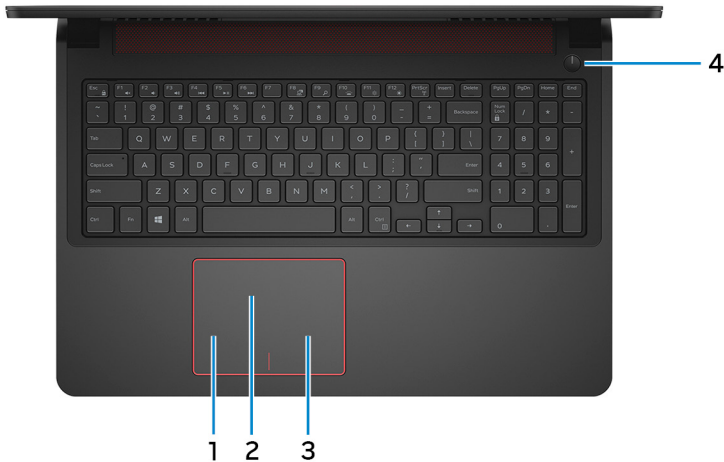


Connect an Ethernet (RJ45) cable from a router or a broadband modem for network or internet access.

## 5 **Security-cable slot**

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

# Base



## 1 **Left-click area**

Press to left-click.

## 2 **Touch pad**

Move your finger on the touch pad 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 **Power button**

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

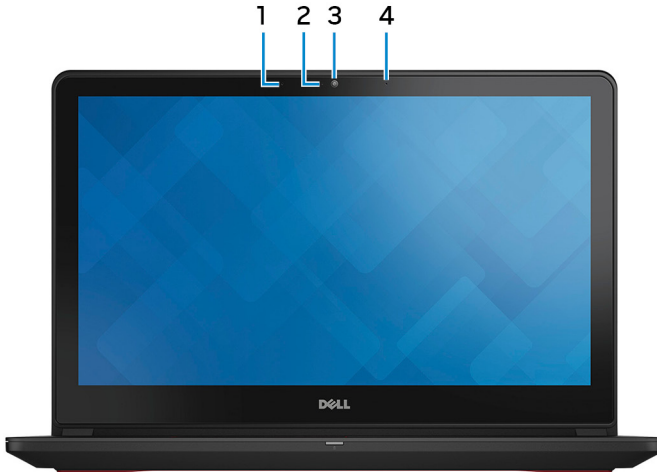
Press to put the computer in sleep state if it is turned on.

Press and hold for 4 seconds to force shut-down the computer.



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

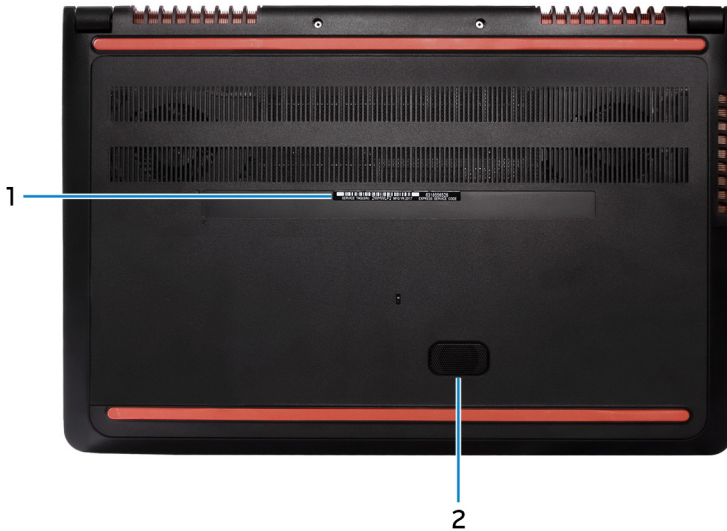
## Display



- 1 **Left microphone**  
Provides digital sound input for audio recording and voice calls.
- 2 **Camera-status light**  
Turns on when the camera is in use.
- 3 **Camera**  
Enables you to video chat, capture photos, and record videos.
- 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.

## 2 **Subwoofer**

A speaker unit that is designed to produce low frequency bass sounds.


# Specifications

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## Dimensions and weight

**Table 2. Dimensions and weight**

Height	25.3 mm (0.99 in)
Width	383 mm (15.07 in)
Depth	265 mm (10.43 in)
Weight (maximum)	2.57 kg (5.66 lb)

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

## System information

**Table 3. System information**

Computer model	Inspiron 15-5577
Processor	7 <sup>th</sup> generation Intel Core i5/i7
Chipset	Intel HM175

## Memory

**Table 4. Memory specifications**

Slots	Two SODIMM slots
Type	Dual-channel DDR4
Speed	2400 MHz
Configurations supported	4 GB, 8 GB, 12 GB, 16 GB, and 32 GB



# Ports and connectors

Table 5. Ports and connectors specifications

External:	
Network	One RJ-45 port
USB	<ul style="list-style-type: none"><li>• One USB 3.0 port with PowerShare</li><li>• Two USB 3.0 ports</li></ul>
Audio/Video	<ul style="list-style-type: none"><li>• One HDMI port</li><li>• One headset (headphone and microphone combo) port</li></ul>

Table 6. Ports and connectors specifications

Internal:	
M.2 Card	<ul style="list-style-type: none"><li>• One M.2 slot for SSD card</li><li>• One M.2 slot for WiFi/Bluetooth</li></ul>

# Communications

Table 7. Communication specifications

Ethernet	10/100/1000 Mbps Ethernet controller integrated on system board
Wireless (with Antenna Diversity)	<ul style="list-style-type: none"><li>• Wi-Fi 802.11ac</li><li>• Bluetooth 4.1</li><li>• Bluetooth 4.2</li></ul>



# Audio

**Table 8. Audio specifications**

Controller	Realtek ALC3246 with Waves MaxxAudio Pro
Speakers	Two
Speaker output	<ul style="list-style-type: none"><li>• Average: 2 W</li><li>• Peak: 2.5 W</li></ul>
Subwoofer	One
Microphone	Digital-array microphones
Volume controls	Media-control shortcut keys

# Storage

**Table 9. Storage specifications**

Interface	<ul style="list-style-type: none"><li>• SATA 6 Gbps</li><li>• PCIe/NVMe</li></ul>
Hard drive	One 2.5-inch drive (SATA)
Solid-state drive (SSD)	One M.2 drive (SATA or PCIe/NVMe)
Capacity	
Hard drive	<ul style="list-style-type: none"><li>• Up to 1 TB (hard drive only)</li><li>• Up to 1 TB hard drive + up to 128 GB SSD</li></ul>
SSD	Up to 512 GB (PCIe SSD)




# Media-card reader

Table 10. Media-card reader specifications

Type	One 2-in-1 slot
Cards supported	<ul style="list-style-type: none"><li>• SD card</li><li>• MultiMedia Card (MMC)</li></ul>

# Keyboard

Table 11. Keyboard specifications

Type	<ul style="list-style-type: none"><li>• Standard keyboard</li><li>• Backlit keyboard (optional)</li></ul>
Shortcut keys	<p>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.</p> <div><b>NOTE: You can define the primary behavior of the function keys (F1-F12) by changing Function Key Behavior in BIOS setup program.</b></div> <p><a href="#">Keyboard shortcuts</a></p>

# Camera

Table 12. Camera specifications

Resolution	<ul style="list-style-type: none"><li>• Still image: 1 megapixel</li></ul>
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	<ul style="list-style-type: none"> <li>• Video: 1280 x 720 (HD) at 30 fps (maximum)</li> </ul>
Diagonal viewing angle	74 degrees

## Touch pad

**Table 13. Touch pad**

Resolution	<ul style="list-style-type: none"> <li>• Horizontal: 800</li> <li>• Vertical: 800</li> </ul>
Dimensions	<ul style="list-style-type: none"> <li>• Height: 80 mm (3.14 in)</li> <li>• Width: 105 mm (4.13 in)</li> </ul>

## Power adapter

**Table 14. Power adapter specifications**

Type	130 W
Input voltage	100 VAC–240 VAC
Input frequency	50 Hz–60 Hz
Input current (maximum)	1.80 A
Output current (continuous)	6.70 A
Rated output voltage	19.50 VDC
Temperature range: Operating	0°C to 40°C (32°F to 104°F)
Temperature range: Storage	–40°C to 70°C (–40°F to 158°F)

## Battery

**Table 15. Battery specifications**

Type	6-cell “smart” lithium ion (74 WHr)
Dimensions:	



Width	177.80 mm (7 in)
Depth	87.85 mm (3.45 in)
Height	11.30 mm (0.44 in)
Weight (maximum)	0.35 kg (0.77 lb)
Voltage	11.10 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	<ul style="list-style-type: none"> <li>• Operating: 0°C to 35°C (32°F to 95°F)</li> <li>• Storage: -40°C to 65°C (-40°F to 149°F)</li> </ul>
Coin-cell battery	CR-2032

## Display

**Table 16. Display specifications**

Type	<ul style="list-style-type: none"> <li>• 15.6-inch FHD touch screen</li> <li>• 15.6-inch FHD non-touch screen</li> </ul>
Viewing angle (Left/Right/Up/Down)	
Touch screen	80/80/80/80
Non-touch screen	<ul style="list-style-type: none"> <li>• 40/40/10/30</li> <li>• 80/80/80/80</li> </ul>
Resolution (maximum)	1920 x 1080
Pixel pitch	0.179 mm
Height (excluding bezel)	193.59 mm (7.62 in)
Width (excluding bezel)	344.16 mm (13.55 in)

Diagonal (excluding bezel)	394.87 mm (15.60 in)
Refresh rate	60 Hz
Operating angle	0 degrees (closed) to 135 degrees
Controls	Brightness can be controlled using shortcut keys

# Video

**Table 17. Video specifications**

	Integrated	Discrete
Controller	Intel HD Graphics 630	NVIDIA GeForce GTX 1050
Memory	Shared system memory	4 GB GDDR5

# Computer environment

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

**Table 18. 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

Table 19. List of keyboard shortcuts

Keys	Description
	Mute audio
	Decrease volume
	Increase volume
	Play previous track/chapter
	Play/Pause
	Play next track/chapter
	Switch to external display
	Search
	Toggle keyboard backlight
	Decrease brightness
	Increase brightness
+	Turn off/on wireless
+	Pause/Break
+	Sleep
+	Toggle scroll lock



Keys	Description
 + 	Open application menu
 + 	Toggle between power and battery-status light/hard-drive activity light
 + 	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 20. Self-help resources**

Information about Dell products and services	<a href="http://www.dell.com">www.dell.com</a>
Dell Help & Support app	
Get started app	
Accessing help	In Windows search, type <b>Help and Support</b> , and press Enter.
Online help for operating system	<a href="http://www.dell.com/support/windows">www.dell.com/support/windows</a>
Troubleshooting information, user manuals, setup instructions, product specifications, technical help blogs, drivers, software updates, and so on.	<a href="http://www.dell.com/support">www.dell.com/support</a>
Learn about your operating system, setting up and using your computer, data backup, diagnostics, and so on.	See <i>Me and My Dell</i> at <a href="http://www.dell.com/support/manuals">www.dell.com/support/manuals</a> .

## Contacting Dell

To contact Dell for sales, technical support, or customer service issues, see [www.dell.com/contactdell](http://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.

