



# Inspiron 14

5000 Series



[Views](#)

[Specifications](#)

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2015 - 02 Rev. A00

Regulatory model: P64G | Type: P64G001/P64G003

Computer model: Inspiron 14-5458/Inspiron 14-5451

**NOTE:** The images in this document may differ from your computer depending on the configuration you ordered.



Front



Left



Right



Base



Display

## Front



### 1 **Power and battery-status light/hard-drive activity light**

Indicates the power state and battery state of the computer.

Solid White — Power adapter is connected and the battery is fully charged.

Solid yellow — Battery charge is low or critical.

Blinking yellow — Battery charge is critical.

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



Front



Left



Right



Base



Display

## Left



### 1 Power-adapter port

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

### 2 Network port

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

The two lights next to the connector indicate the connectivity status and network activity.

### 3 HDMI port

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

### 4 USB 3.0 port

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

### 5 Media-card reader

Reads from and writes to media cards.



Front



Left



Right



Base



Display

## Right



### 1 Headset port

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

### 2 USB 2.0 ports (2)

Connect peripherals such as storage devices, printers, and so on. Provides data transfer speeds up to 480 Mbps.

### 3 Optical drive

Reads from and writes to CDs and DVDs.

### 4 Security-cable slot

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



Front



Left



Right



Base



Display

## 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.

### 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 [dell.com/support](http://dell.com/support).



Front



Left



Right



Base



Display

## Display



**1 Left microphone**

Provides high-quality digital sound input for audio recording, voice calls, and so on.

**2 Camera**

Allows 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 high-quality digital sound input for audio recording, voice calls, and so on.



# Specifications

## Dimensions and weight

### Height:

Touch 23.60 mm (0.93 in)

Non-touch 23.35 mm (0.92 in)

Width 345 mm (13.58 in)

Depth 243 mm (9.56 in)

### Weight (maximum):

Touch 2.18 kg (4.80 lb)

Non-touch 1.92 kg (4.23 lb)

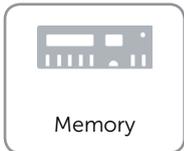
**NOTE:** The weight of your laptop varies depending on the configuration ordered and the manufacturing variability.



Dimensions and weight



System information



Memory



Ports and connectors



Communications



Video



Audio



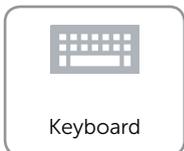
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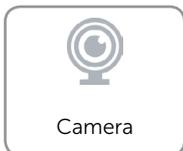
Media-card reader



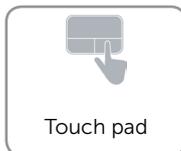
Display



Keyboard



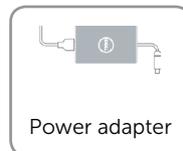
Camera



Touch pad



Battery



Power adapter



Computer environment



# Specifications

## System information

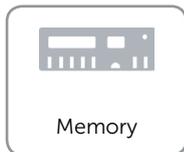
Computer model	Inspiron 14-5451	Inpiron 14-5458
Processor	<ul style="list-style-type: none"><li>• Intel Celeron Dual Core</li><li>• Intel Pentium Quad Core</li></ul>	<ul style="list-style-type: none"><li>• 4<sup>th</sup> Generation Intel Core i3</li><li>• 5<sup>th</sup> Generation Intel Core i3/i5/i7</li><li>• Intel Celeron Dual Core</li><li>• Intel Pentium Dual Core</li></ul>
Chipset	Integrated in processor	Integrated in processor



Dimensions and weight



System information



Memory



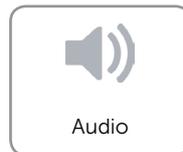
Ports and connectors



Communications



Video



Audio



Storage



Media-card reader



Display



Keyboard



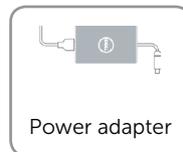
Camera



Touch pad



Battery



Power adapter



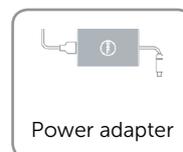
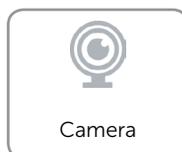
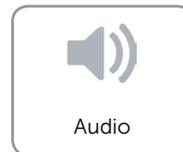
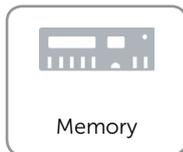
Computer environment



# Specifications

## Memory

	Inspiron 14-5451	Inspiron 14-5458
Slots	One SODIMM slot	Two SODIMM slots
Type	DDR3L	DDR3L
Speed	1300 MHz	1600 MHz
Configurations supported	2 GB, 4 GB, and 8 GB	2 GB, 4 GB, 6 GB, 8 GB, 12 GB, and 16 GB





# Specifications

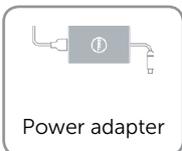
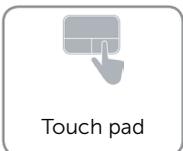
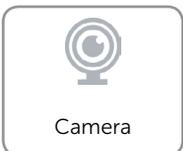
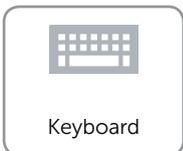
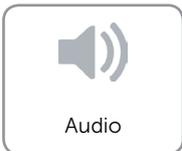
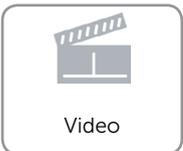
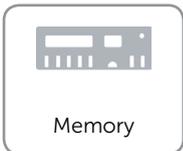
## Ports and connectors

### External:

- |             |   |
|-------------|---|
| Network     | One RJ45 port (Inspiron 14-5458 only)   |
| USB         | <ul style="list-style-type: none"><li>• Two USB 2.0 ports</li><li>• One USB 3.0 port</li></ul>                              |
| Audio/video | <ul style="list-style-type: none"><li>• One HDMI port</li><li>• One headset port (headphone and microphone combo)</li></ul> |

### Internal:

- |     |  |
|-----|--|
| M.2 | One M.2 card slot for Wi-Fi and Bluetooth combo card |
|-----|--|





# Specifications

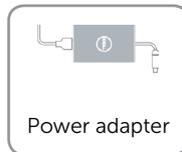
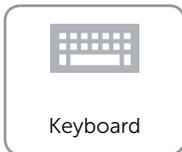
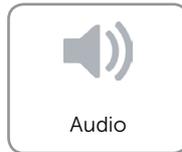
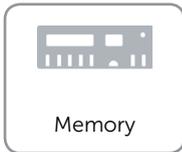
## Communications

Ethernet

10/100 Mbps Ethernet controller integrated on system board

Wireless

- Wi-Fi 802.11ac
- Wi-Fi 802.11b/g/n
- Bluetooth 4.0
- Intel WiDi (optional)





# Specifications

## Video

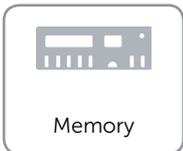
	Inspiron 14-5458	Inspiron 14-5451
Controller:		
Integrated	<ul style="list-style-type: none"> <li>Intel HD Graphics</li> <li>Intel HD Graphics 4400</li> <li>Intel HD Graphics 5500</li> </ul>	Intel HD Graphics
Discrete	NVIDIA GeForce 920M	N/A
Memory:		
Integrated	Shared system memory	Shared system memory
Discrete	Up to 4 GB DDR3L	N/A



Dimensions and weight



System information



Memory



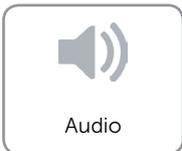
Ports and connectors



Communications



Video



Audio



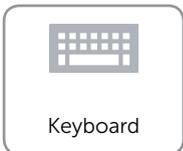
Storage



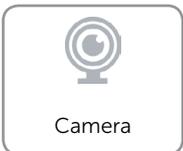
Media-card reader



Display



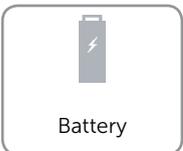
Keyboard



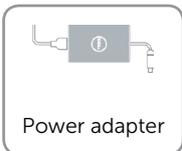
Camera



Touch pad



Battery



Power adapter



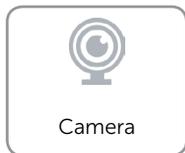
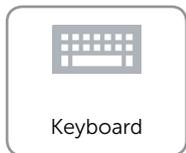
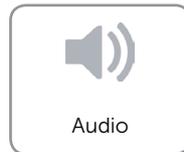
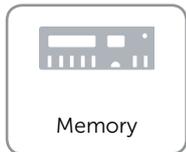
Computer environment



# Specifications

## Audio

Controller	Realtek ALC3234 with Waves MaxxAudio
Speakers	Two
Speaker output:	
Average	2 W
Peak	2.2 W
Microphone	<ul style="list-style-type: none"><li>• Single microphone (Inspiron 14-5451)</li><li>• Digital array-microphones (Inspiron 14-5458)</li></ul>
Volume controls	Media-control shortcut keys

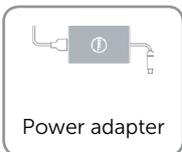
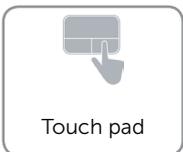
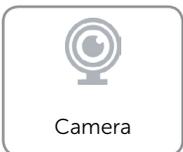
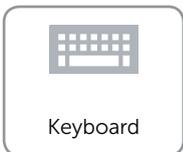
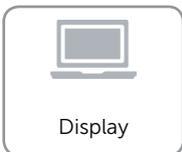
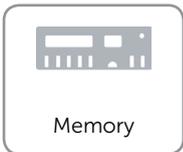




# Specifications

## Storage

Interface	<ul style="list-style-type: none"><li>• SATA 3 Gbps (Inspiron 14-5451)</li><li>• SATA 6 Gbps (Inspiron 14-5458)</li></ul>
Hard drive	One 2.5-inch drive (supports Intel Smart Response Technology)
Optical drive	One 9.5 mm DVD+/-RW drive





# Specifications

## Media-card reader

Type	One SD card slot
Cards supported	SD card



Dimensions and weight



System information



Memory



Ports and connectors



Communications



Video



Audio



Storage



Media-card reader



Display



Keyboard



Camera



Touch pad



Battery



Power adapter



Computer environment



# Specifications

## Display

Type	<ul style="list-style-type: none"><li>• 14-inch HD WLED</li><li>• 14-inch HD WLED touch screen</li></ul>
Resolution (maximum)	1366 x 768
Refresh rate	60 Hz
Operating angle	0 degree (closed) to 135 degrees
Pixel pitch	0.2265 mm
Controls	Brightness can be controlled using shortcut keys.

### Touch screen

(Inspiron 14-5458 only)

### Non-touch screen

#### Dimensions:

Height	174.95 mm (6.88 in)	173.95 mm (6.85 in)
Width	310.40 mm (12.22 in)	309.40 mm (12.18 in)
Diagonal	356.31 mm (14.02 in)	354.95 mm (13.97 in)



Dimensions and weight



System information



Memory



Ports and connectors



Communications



Video



Audio



Storage



Media-card reader



Display



Keyboard



Camera



Touch pad



Battery



Power adapter



Computer environment



# Specifications

## Keyboard

Type Chiclet 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:** You can change the behavior of the shortcut keys by pressing Fn+Esc or by changing **Function Key Behavior** in BIOS setup program.

[List of shortcut keys.](#)



Dimensions and weight



System information



Memory



Ports and connectors



Communications



Video



Audio



Storage



Media-card reader



Display



Keyboard



Camera



Touch pad



Battery



Power adapter



Computer environment



## Shortcut keys

	Mute audio
	Decrease volume
	Increase volume
	Play previous track/chapter
	Play/Pause
	Play next track/chapter
	Switch to external display
	Open Search
	Toggle keyboard backlight
	Decrease brightness
	Increase brightness

	+		Turn off/on wireless
	+		Toggle Fn-key lock
	+		Sleep
	+		Toggle between power and battery-status light/hard-drive activity light
	+		Pause/Break
	+		System request
	+		Open application menu
	+		Toggle scroll lock
	+		End
	+		Home
	+		Page Up
	+		Page Down



# Specifications

## Camera

Resolution:

Still image 0.92 megapixel

Video 1280 x 720 HD at 30 fps

Diagonal viewing angle 74 degrees



Dimensions and weight



System information



Memory



Ports and connectors



Communications



Video



Audio



Storage



Media-card reader



Display



Keyboard



Camera



Touch pad



Battery



Power adapter



Computer environment



# Specifications

## Touch pad

### Resolution:

Horizontal 1223 dpi

Vertical 1573 dpi

### Dimensions:

Width 105 mm (4.13 in)

Height 65 mm (2.55 in)



Dimensions and weight



System information



Memory



Ports and connectors



Communications



Video



Audio



Storage



Media-card reader



Display



Keyboard



Camera



Touch pad



Battery



Power adapter



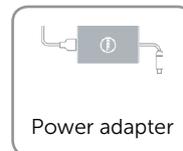
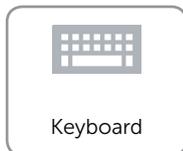
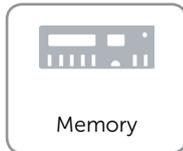
Computer environment



# Specifications

## Battery

Type	<ul style="list-style-type: none"><li>• 4 cell "smart" lithium ion (40 WHr)</li><li>• 4 cell "smart" lithium ion (47 WHr)</li></ul>
Dimensions:	
Width	270 mm (10.63 in)
Depth	37.50 mm (1.47 in)
Height	20 mm (0.78 in)
Weight (maximum)	0.25 kg
Voltage	14.8 VDC
Charging time when the computer is off (approximate)	4 hours
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

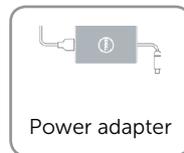
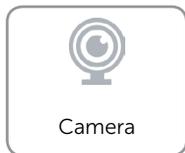
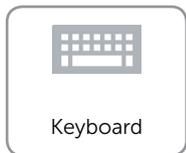
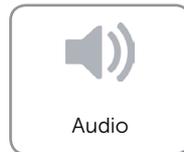
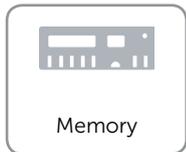




# Specifications

## Power adapter

Type	<ul style="list-style-type: none"><li>• 45 W</li><li>• 65 W</li></ul>
Input voltage	100 VAC–240 VAC
Input frequency	50 Hz–60 Hz
Input current (maximum):	
45 W	1.30 A
65 W	1.70 A
Output current (maximum):	
45 W	2.31 A
65 W	3.34 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)





# Specifications

## Computer environment

Airborne contaminant level	G1 as defined by ISA-S71.04-1985	
	<b>Operating</b>	<b>Storage</b>
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 <sup>†</sup>	160 G <sup>‡</sup>
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.

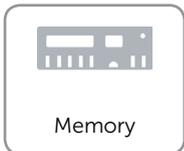
‡ Measured using a 2 ms half-sine pulse when the hard-drive head is in parked position.



Dimensions and weight



System information



Memory



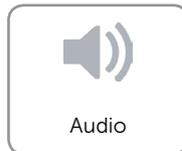
Ports and connectors



Communications



Video



Audio



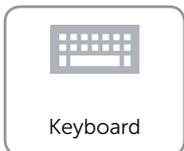
Storage



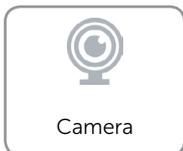
Media-card reader



Display



Keyboard



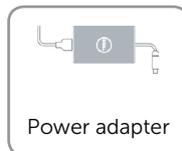
Camera



Touch pad



Battery



Power adapter



Computer environment