



# Inspiron 14

3000 Series



[Views](#)

[Specifications](#)

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2014 - 12 Rev. A00

Regulatory model: P60G | Type: P60G001/P60G002

Computer model: Inspiron 14-3451/Inspiron 14-3458

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



Front



Left



Right



Base



Display

## Front



1

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

Indicates the power and battery-charge status.  
Press Fn+H to toggle this light between hard-drive activity light and battery-status light.

- |              |  |
|--------------|--|
| Solid white  | Power adapter is connected and the battery has more than 5% charge.  |
| Solid yellow | Computer is running on battery and the battery has less than 5% charge.  |
| Off          | <ul style="list-style-type: none"><li>• Power adapter is connected and the battery is fully charged.</li><li>• Computer is running on battery and the battery has more than 5% charge.</li><li>• Computer is in sleep state, hibernation, or turned off.</li></ul> |



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 (Inspiron 14-3458 only)

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

### 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

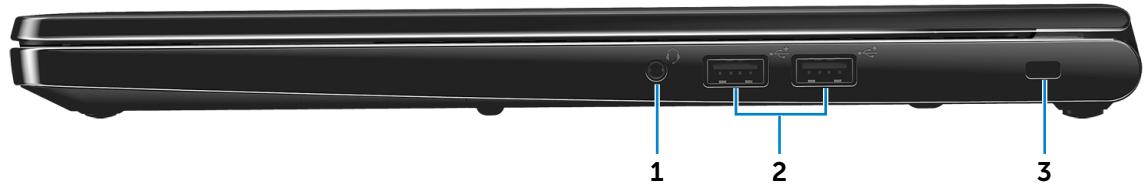


Base



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. Provide data transfer speeds up to 480 Mbps.

### 3 Security-cable slot

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



## Base



Front



Left



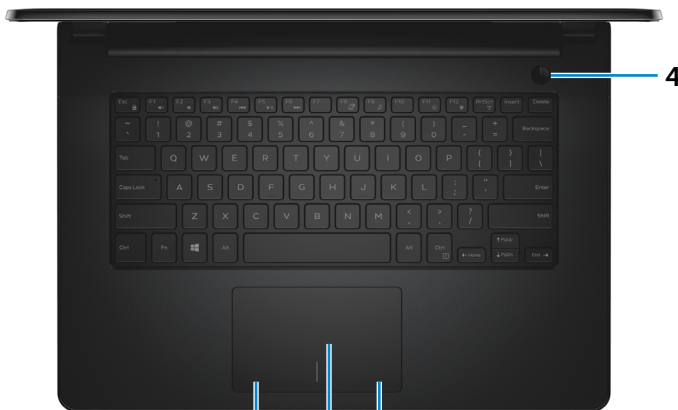
Right



Base



Display



**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 or in sleep state.

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

Press and hold for 10 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/manuals](http://dell.com/support/manuals).



## Display



Front



Left



Right



Base



Display



**1 Camera**

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

**2 Camera-status light**

Turns on when the camera is in use.

**3 Microphone**

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

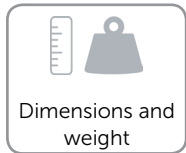


# Specifications

## Dimensions and weight

Height	21.4 mm (0.84 in)
Width	345 mm (13.58 in)
Depth	243 mm (9.57 in)
Weight (maximum)	1.9 kg (4.19 lb)

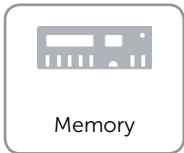
**NOTE:** The weight of your laptop varies depending on the configuration ordered and the manufacturing variability.



Dimensions and weight



System information



Memory



Ports and connectors



Communications



Video



Audio



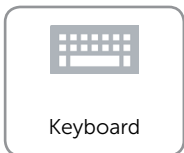
Storage



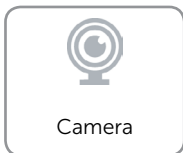
Media-card reader



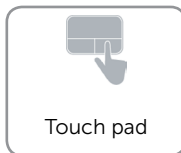
Display



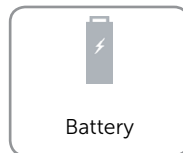
Keyboard



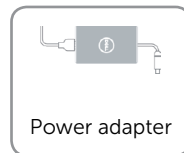
Camera



Touch pad



Battery



Power adapter



Computer environment



# Specifications

## System information

Computer model

- Inspiron 14-3451
- Inspiron 14-3458

### Inspiron 14-3451

### Inspiron 14-3458

Processor

- Intel Celeron Processor
  - Intel Pentium Processor
- Intel Celeron Processor
  - Intel Pentium Processor
  - 4<sup>th</sup> Generation Intel Core i3 Processor
  - 5<sup>th</sup> Generation Intel Core i3 Processor
  - 5<sup>th</sup> Generation Intel Core i5 Processor

Chipset

Integrated in processor

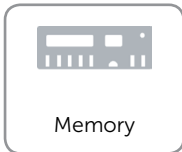
Integrated in processor



Dimensions and weight



System information



Memory



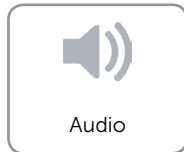
Ports and connectors



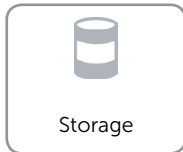
Communications



Video



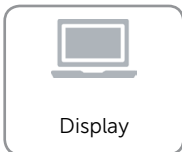
Audio



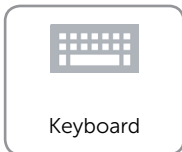
Storage



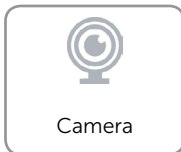
Media-card reader



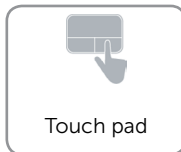
Display



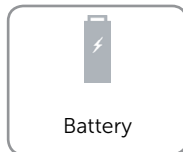
Keyboard



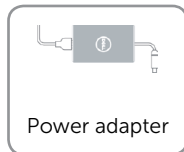
Camera



Touch pad



Battery



Power adapter



Computer environment

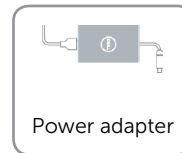
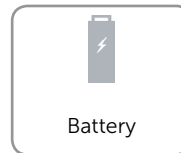
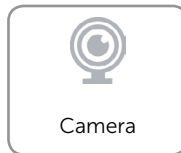
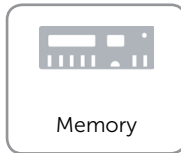
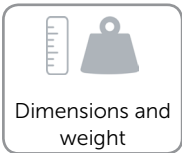




# Specifications

## Memory

	Inspiron 14-3451	Inspiron 14-3458
Slot	One SODIMM slot	Two SODIMM slots
Type	DDR3L	Dual-channel DDR3L
Speed	1333 MHz	1600 MHz
Configurations supported	2 GB and 4 GB	2 GB, 4 GB, 6 GB, and 8 GB





# Specifications

## Ports and connectors

### External:

- |             |   |
|-------------|---|
| Network     | One RJ45 port (Inspiron 14-3458 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 headphone and microphone combo (headset) port</li></ul> |

### Internal:

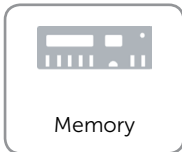
- |           |   |
|-----------|---|
| NGFF slot | One NGFF slot for Wi-Fi, Bluetooth, and Intel WiDi (optional) |
|-----------|---|



Dimensions and weight



System information



Memory



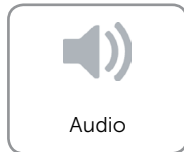
Ports and connectors



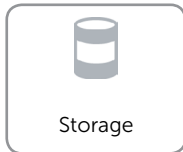
Communications



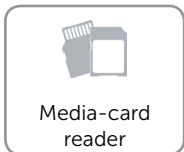
Video



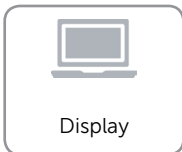
Audio



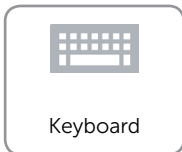
Storage



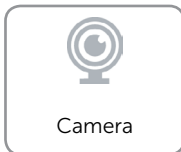
Media-card reader



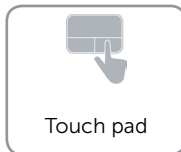
Display



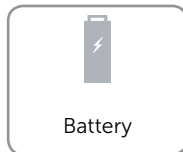
Keyboard



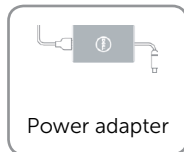
Camera



Touch pad



Battery



Power adapter



Computer environment

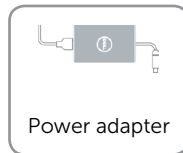
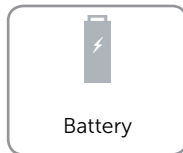
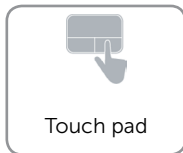
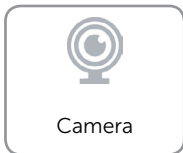
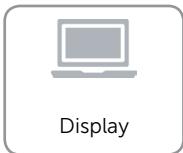
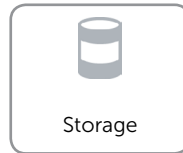
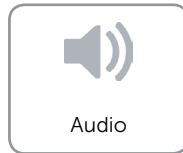
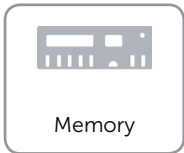
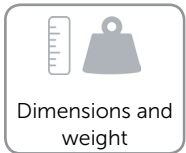


# Specifications

## Communications

### Wireless

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





# Specifications

## Video

	Inspiron 14-3451	Inspiron 14-3458
Controller:		
Integrated	Intel HD Graphics	<ul style="list-style-type: none"><li>Intel HD Graphics</li><li>Intel HD Graphics 4400</li><li>Intel HD Graphics 5500</li></ul>
Discrete	N/A	NVIDIA GeForce 820M
Memory:		
Integrated	Shared system memory	Shared system memory
Discrete	N/A	<ul style="list-style-type: none"><li>1 GB DDR3L</li><li>2 GB DDR3L</li></ul>

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

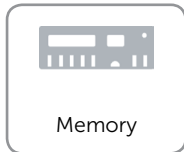
Controller	Realtek ALC3234 with Waves MaxxAudio
Speakers	Two
Speaker output:	
Average	2 W
Peak	2.5 W
Microphone	Single digital microphone in the camera assembly
Volume controls	Media-control shortcut keys



Dimensions and weight



System information



Memory



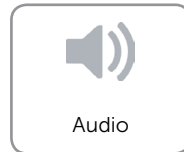
Ports and connectors



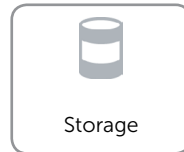
Communications



Video



Audio



Storage



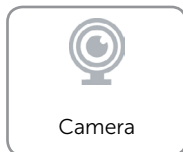
Media-card reader



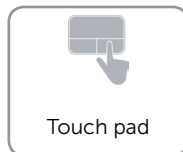
Display



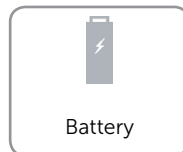
Keyboard



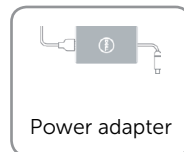
Camera



Touch pad



Battery



Power adapter



Computer environment



# Specifications

## Storage

### Interface

Inspiron 14-3451 SATA 3 Gbps

Inspiron 14-3458 SATA 6 Gbps

Hard drive One 2.5-inch drive

Drives supported One hard drive



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

## 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



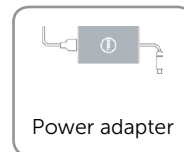
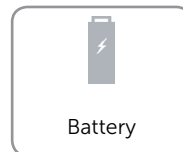
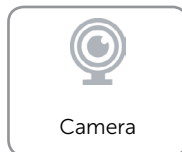
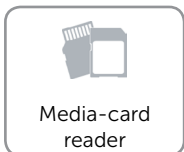
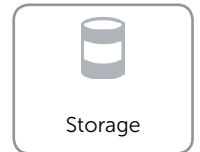
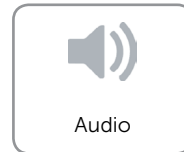
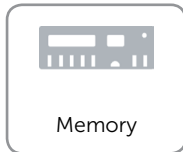
Computer environment



# Specifications

## Display

Type	14.0-inch TrueLife
Resolution (maximum)	1366 x 768
Pixel pitch	0.2520 mm
Dimensions:	
Height	225.06 mm (8.86 in)
Width	366.63 mm (14.43 in)
Diagonal	355.6 mm (14 in)
Operating angle	0 degree (closed) to 135 degrees
Refresh rate	60 Hz
Controls	Brightness can be controlled using shortcut keys







# Specifications

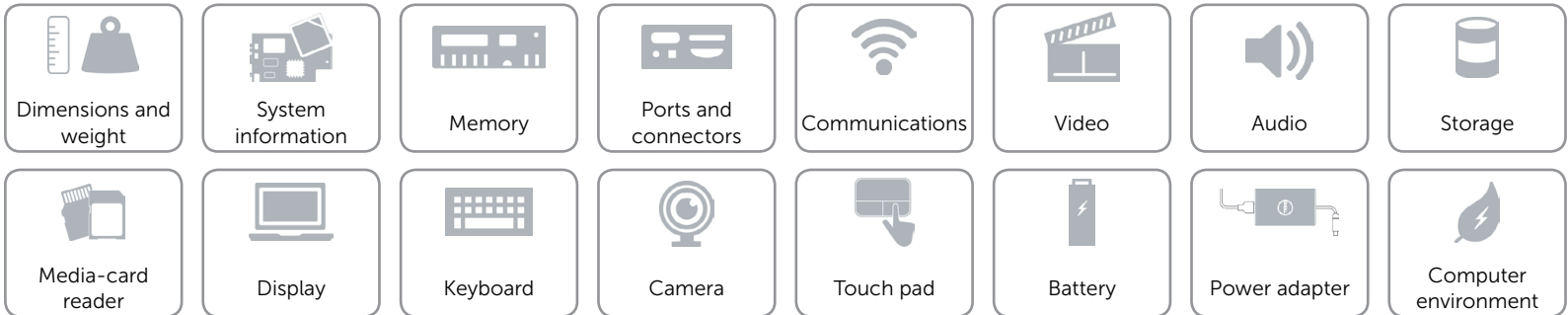
## Keyboard

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.](#)





## Shortcut keys

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

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



# Specifications

## Camera

### Resolution:

Still image 0.92 megapixel

Video 1280 x 720 (HD) at 30 fps (maximum)

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 2040

Vertical 1240

### Dimensions:

Width 105 mm (4.13 in)

Height 65 mm (2.56 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



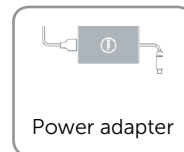
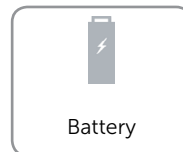
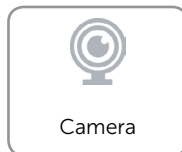
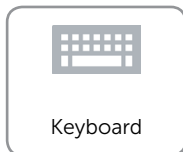
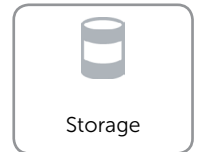
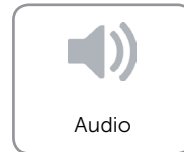
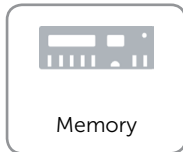
Computer environment



# Specifications

## Battery

Type	<ul style="list-style-type: none"><li>4-cell 40 WHr smart Lithium ion</li><li>4-cell 47 WHr smart Lithium ion</li></ul>
Dimensions:	
Height	20 mm (0.79 in)
Width	270.2 mm (10.64 in)
Depth	37.5 mm (1.48 in)
Weight (maximum)	0.26 kg (0.57 lb)
Voltage	14.80 VDC
Operating time	Varies depending on operating conditions and can significantly reduce under certain power-intensive conditions.
Charging time when the computer is off (approximate)	4 hours
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:

Inspiron 14-3451 45 W

Inspiron 14-3458

- 45 W
- 65 W

Input voltage 100 VAC–240 VAC

Input frequency 50 Hz–60 Hz

Input current 1.30 A/1.60 A/1.70 A

Output current 2.31 A/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)



Dimensions and weight



System information



Memory



Ports and connectors



Communications



Video



Audio



Storage



Media-card reader



Display



Keyboard



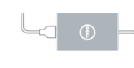
Camera



Touch pad



Battery



Power adapter



Computer environment



# Specifications

## 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.

