



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.



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



Storage



Media-card reader



Display



Keyboard



Camera



Touch pad



Battery



Power adapter



Computer environment



Specifications

System information

Computer model

Inspiron 14-5451

Inspiron 14-5458

Processor

- Intel Celeron Dual Core
- Intel Pentium Quad Core
- 4th Generation Intel Core i3
- 5th Generation Intel Core i3/i5/i7
- Intel Celeron Dual Core
- Intel Pentium Dual Core

Chipset

Integrated in processor

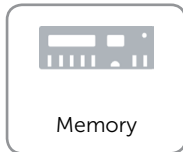
Integrated in processor



Dimensions and weight



System information



Memory



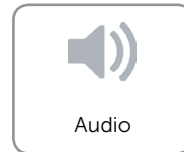
Ports and connectors



Communications



Video



Audio



Storage



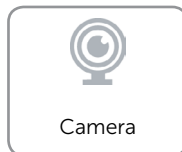
Media-card reader



Display



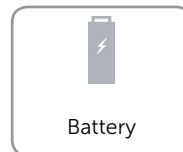
Keyboard



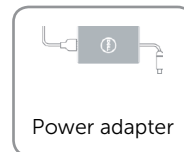
Camera



Touch pad



Battery



Power adapter



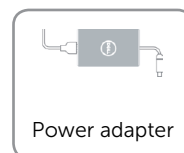
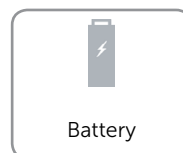
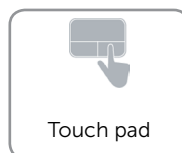
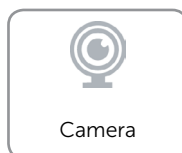
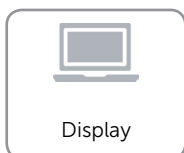
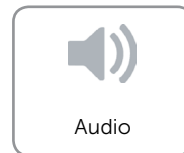
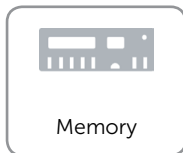
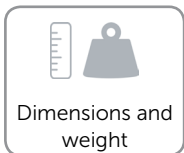
Computer environment



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

Internal:

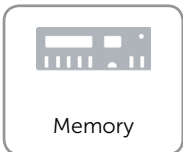
- | | |
|-----|--|
| M.2 | One M.2 card slot for Wi-Fi and Bluetooth combo card |
|-----|--|



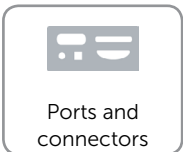
Dimensions and weight



System information



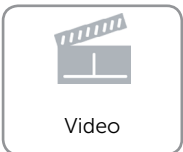
Memory



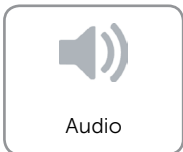
Ports and connectors



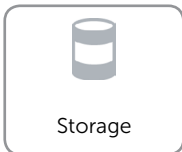
Communications



Video



Audio



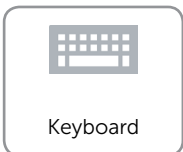
Storage



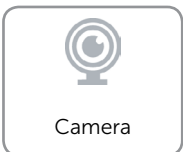
Media-card reader



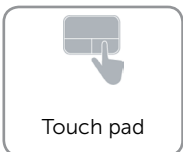
Display



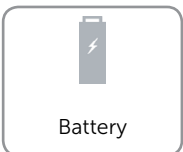
Keyboard



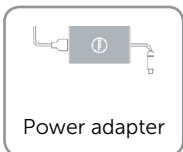
Camera



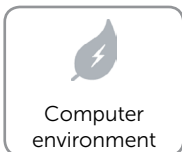
Touch pad



Battery



Power adapter



Computer environment



Specifications

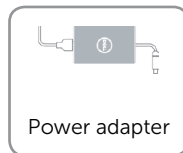
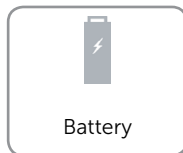
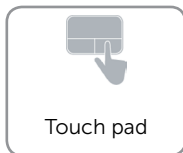
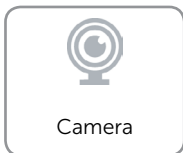
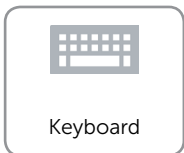
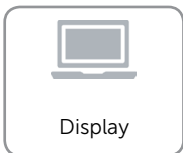
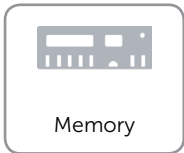
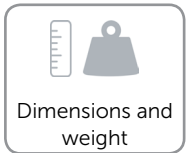
Communications

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)

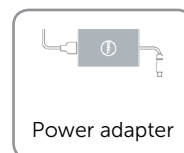
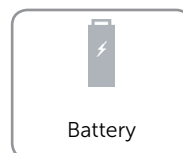
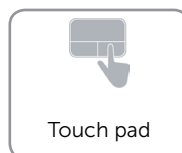
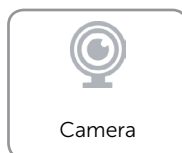
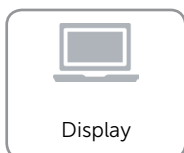
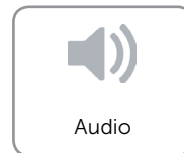
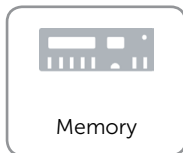




Specifications

Video

	Inspiron 14-5458	Inspiron 14-5451
Controller:		
Integrated	<ul style="list-style-type: none">Intel HD GraphicsIntel HD Graphics 4400Intel HD Graphics 5500	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

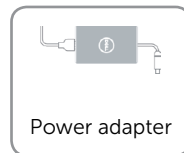
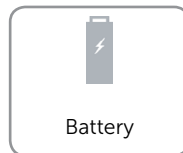
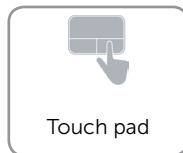
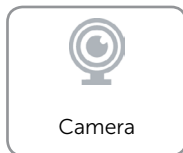
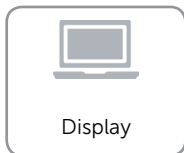
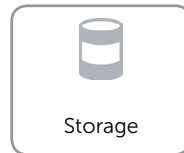
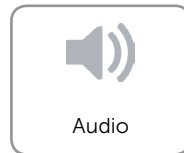
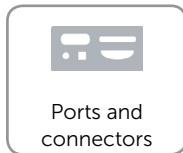




Specifications

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">• Single microphone (Inspiron 14-5451)• Digital array-microphones (Inspiron 14-5458)
Volume controls	Media-control shortcut keys





Specifications

Storage

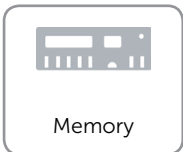
Interface	<ul style="list-style-type: none">• SATA 3 Gbps (Inspiron 14-5451)• SATA 6 Gbps (Inspiron 14-5458)
Hard drive	One 2.5-inch drive (supports Intel Smart Response Technology)
Optical drive	One 9.5 mm DVD+/-RW drive



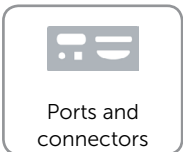
Dimensions and weight



System information



Memory



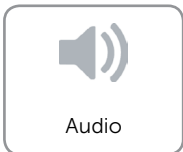
Ports and connectors



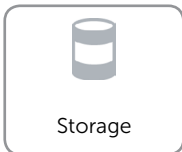
Communications



Video



Audio



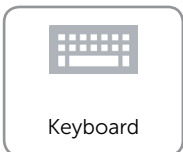
Storage



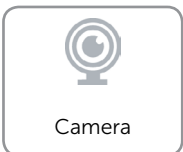
Media-card reader



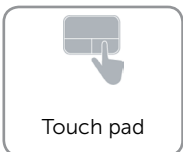
Display



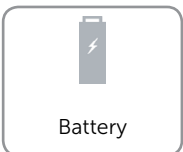
Keyboard



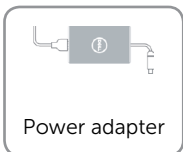
Camera



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	<ul style="list-style-type: none">• 14-inch HD WLED• 14-inch HD WLED touch screen
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.

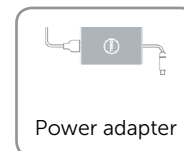
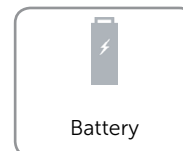
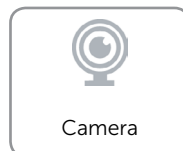
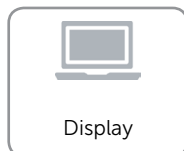
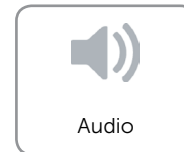
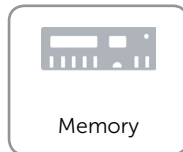
Touch screen

(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)





Specifications

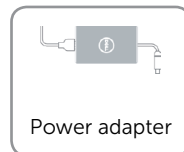
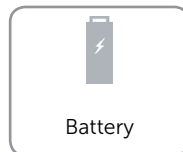
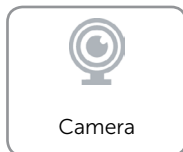
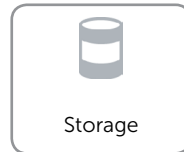
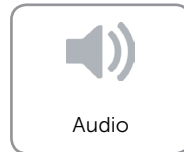
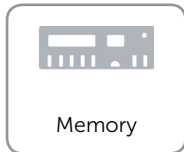
Keyboard

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
	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



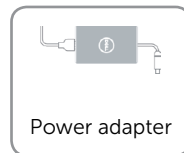
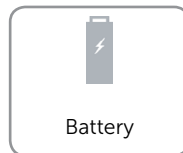
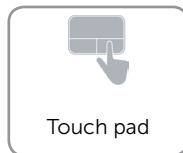
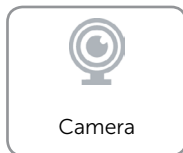
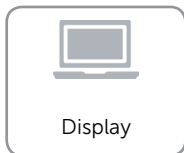
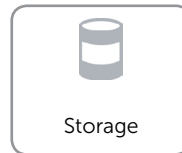
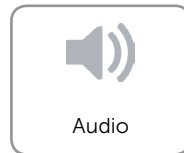
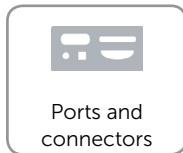
Computer environment



Specifications

Battery

Type	<ul style="list-style-type: none">• 4 cell "smart" lithium ion (40 WHr)• 4 cell "smart" lithium ion (47 WHr)
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

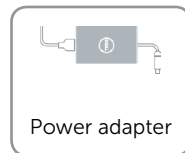
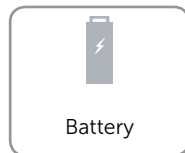
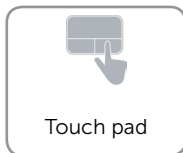
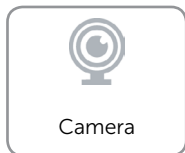
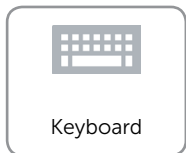
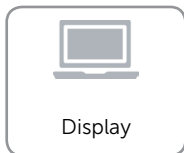
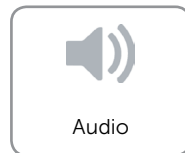
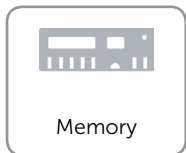




Specifications

Power adapter

Type	<ul style="list-style-type: none">• 45 W• 65 W
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	
	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.

