Inspiron 14

5000 Series

Views

Specifications

2015–08 Rev. A02

Regulatory model: P64G | Type: P64G001/P64G003/P64G004/P64G005

Computer model: Inspiron 14-5451/Inspiron 14-5452/Inspiron 14-5458/Inspiron 14-5459

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

Views

Front

1

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.

Views

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 14-5458 and Inspiron 14-5459 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.

Views

Right

Front

Left

Right

Base

Display

1   Headset port

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

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

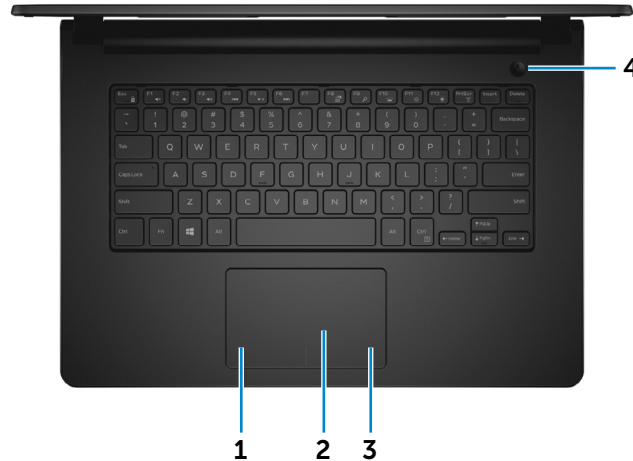Connect a security cable to prevent unauthorized movement of your computer.

Front

Left

Right

Base

Display

Base

4

1　2　3

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 **www.dell.com/support/ manuals**.

Front

Left

Right

Base

Display

Display

1 2 3 4

1   Left microphone (Inspiron 14-5458 and Inspiron 14-5459 only)

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

Specifications

Dimensions and weight

Height:	
Touch (Inspiron 14-5458 and Inspiron 14-5459 only)	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 (minimum):	
Touch (Inspiron 14-5458 and Inspiron 14-5459 only)	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.

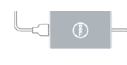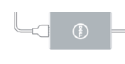|			
Dimensions and weight	System information	Memory	Ports and connectors
Communications	Video	Audio	Storage
Media-card reader	Display	Keyboard	Camera
Touch pad	Battery	Power adapter	Computer environment

Specifications

System information

Computer model	**Inspiron 14-5458 and Inspiron 14-5459**	**Inspiron 14-5451 and Inspiron 14-5452**
Processor	• 4th Generation Intel Core i3/i5 • 5th Generation Intel Core i3/i5/i7 • 6th Generation Intel Core i3/i5/i7 • Intel Celeron Dual Core • Intel Pentium Dual Core	• Intel Celeron Dual Core • Intel Pentium Quad 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 14-5458 and Inspiron 14-5459	**Inspiron 14-5451**	**Inspiron 14-5452**
Slots	Two SODIMM slots	One SODIMM slot	One SODIMM slot
Type	DDR3L	DDR3L	DDR3L
Speed	1600 MHz	1300 MHz	1600 MHz
Configurations supported	2 GB, 4 GB, 6 GB, 8 GB, 12 GB, and 16 GB	2 GB, 4 GB, and 8 GB	2 GB, 4 GB, and 8 GB

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
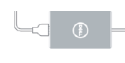
Specifications

Ports and connectors

External:	
Network	One RJ45 port (Inspiron 14-5458 and Inspiron 14-5459 only)
USB	• Two USB 2.0 ports • One USB 3.0 port
Audio/video	• 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

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

Dimensions and weight

System information

Memory

Ports and connectors

Communications

Video

Audio

Storage

Media-card reader

Display

Keyboard

Camera

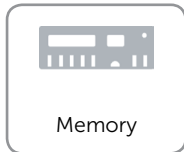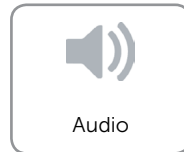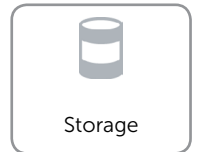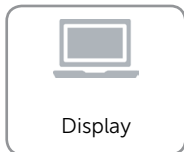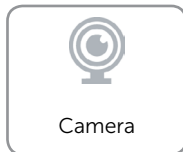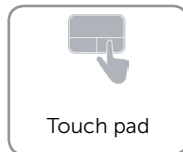Touch pad

Battery

Power adapter

Computer environment

Video

	Inspiron 14-5458 and Inspiron 14-5459	Inspiron 14-5451 and Inspiron 14-5452
Controller:		
Integrated	• Intel HD Graphics • Intel HD Graphics 520 • Intel HD Graphics 4400 • Intel HD Graphics 5500 • Intel HD Graphics 6000	Intel HD Graphics
Discrete	• NVIDIA GeForce 920M (Inspiron 14-5458 only) • AMD Radeon R5 M335 (Inspiron 14-5459 only)	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
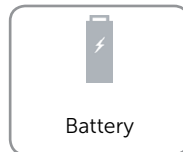
Media-card reader | Display | Keyboard | Camera | Touch pad | Battery | Power adapter | Computer environment

Specifications

Audio

Controller	Realtek ALC3234 with Waves MaxxAudio
Speakers	Two
Speaker output:	
Average	2 W
Peak	2.2 W
Microphone	• Single microphone
	• Digital array-microphones (Inspiron 14-5458 and Inspiron 14-5459 only)
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
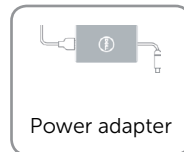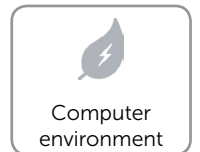
Storage

Interface	• SATA 3 Gbps (Inspiron 14-5451)
	• SATA 6 Gbps (Inspiron 14-5452, Inspiron 14-5458, and Inspiron 14-5459)
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

Media-card reader

Type	One SD card slot
Card supported	SD card

Specifications

Display

Type	• 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.	
	Inspiron 14-5458 and Inspiron 14-5459	**Inspiron 14-5451 and Inspiron 14-5452**
Dimensions:		
Touch screen:		
Height	174.95 mm (6.88 in)	N/A
Width	310.40 mm (12.22 in)	N/A
Diagonal	356.31 mm (14.02 in)	N/A
Non-touch screen:		
Height	173.95 mm (6.85 in)	173.95 mm (6.85 in)
Width	309.40 mm (12.18 in)	309.40 mm (12.18 in)
Diagonal	354.95 mm (13.97 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
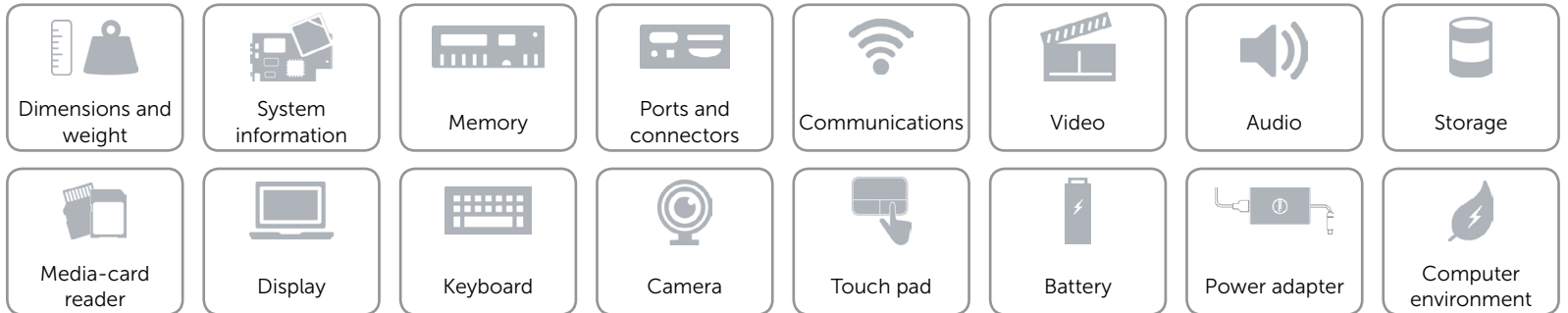
Key	Action
F1 ◀×	Mute audio
F2 ◀)	Decrease volume
F3 ◀))	Increase volume
F4 ◀◀	Play previous track/chapter
F5 ▶❚❚	Play/Pause
F6 ▶▶❙	Play next track/chapter
F8	Switch to external display
F9 🔍	Search
F10	Toggle keyboard backlight (Inspiron 14-5458 and Inspiron 14-5459 only)
F11 ☼	Decrease brightness
F12 ☼	Increase brightness

Keys	Action
Fn + PrtScr	Turn off/on wireless
Fn + Esc 🔒	Toggle Fn-key lock
Fn + Insert	Sleep
Fn + H	Toggle between power and battery-status light/hard-drive activity light
Fn + B	Pause/Break
Fn + R	System request
Fn + Ctrl	Open application menu
Fn + S	Toggle Scroll Lock
Fn + End →	End
Fn + ←Home	Home
Fn + ↑PgUp	Page Up
Fn + ↓PgDn	Page Down

Camera

Resolution:	
Still image	0.92 megapixel
Video	1280 x 720 HD at 30 fps
Diagonal viewing angle	74 degrees

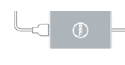|							
Dimensions and weight	System information	Memory	Ports and connectors	Communications	Video	Audio	Storage
Media-card reader	Display	Keyboard	Camera	Touch pad	Battery	Power adapter	Computer environment

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

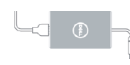Media-card reader

Display

Keyboard

Camera

Touch pad

Battery

Power adapter

Computer environment

Specifications

Battery

Type	• 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

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
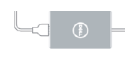
Specifications

Power adapter

Type	• 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)

Dimensions and weight

System information

Memory

Ports and connectors

Communications

Video
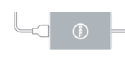
Audio

Storage

Media-card reader

Display

Keyboard

Camera

Touch pad

Battery

Power adapter

Computer environment

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.

Dimensions and weight   System information   Memory   Ports and connectors   Communications   Video   Audio   Storage
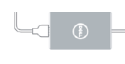
Media-card reader   Display   Keyboard   Camera   Touch pad   Battery   Power adapter   Computer environment