Inspiron 14

3000 Series

Views

Specifications

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	• 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.

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 14-3458 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.

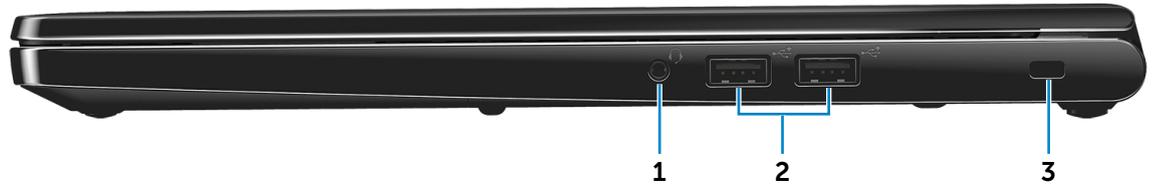**5** **Media-card reader**

Reads from and writes to media cards.

Views

Front

Left

Right

Base

Display

Right

1 **2** **3**

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.

Views

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**.

Front

Left

Right

Base

Display

Display

1   2 3

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

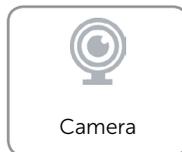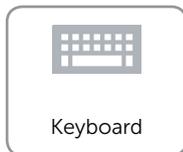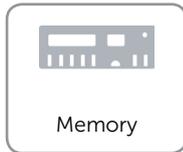Provides high-quality digital sound input for audio recording, voice calls, and so on.

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
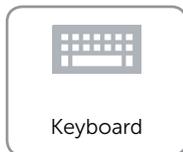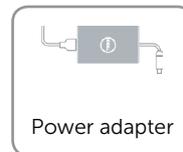
Media-card reader | Display | Keyboard | Camera | Touch pad | Battery | Power adapter | Computer environment

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 • 4th Generation Intel Core i3 Processor • 5th Generation Intel Core i3 Processor • 5th Generation Intel Core i5 Processor
Chipset	Integrated in processor	Integrated in processor
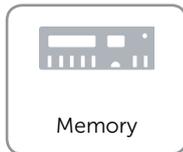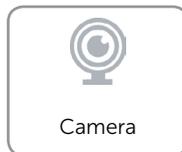
Dimensions and weight	System information	Memory	Ports and connectors	Communications	Video	Audio	Storage
Media-card reader	Display	Keyboard	Camera	Touch pad	Battery	Power adapter	Computer environment

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

Dimensions and weight

System information

Memory

Ports and connectors

Communications

Video

Audio

Storage

Media-card reader
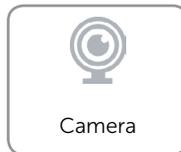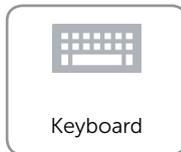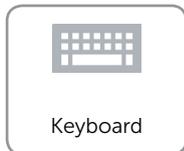
Display

Keyboard

Camera

Touch pad

Battery

Power adapter

Computer environment
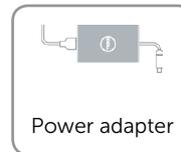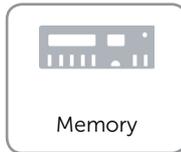
Specifications

Ports and connectors

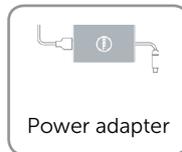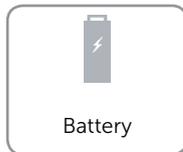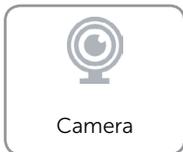| External:	
Network	One RJ45 port (Inspiron 14-3458 only)
USB	• Two USB 2.0 ports • One USB 3.0 port
Audio/Video	• One HDMI port • One headphone and microphone combo (headset) port
Internal:	
NGFF slot	One NGFF slot for Wi-Fi, Bluetooth, and Intel WiDi (optional)

Dimensions and weight
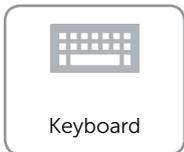
System information

Memory

Ports and connectors

Communications

Video

Audio

Storage

Media-card reader

Display

Keyboard

Camera

Touch pad

Battery

Power adapter

Computer environment
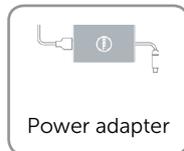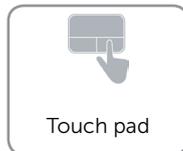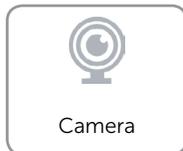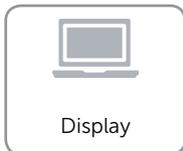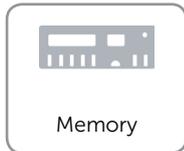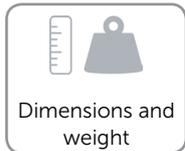
Specifications

Communications

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

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
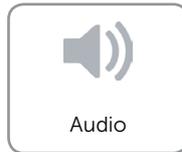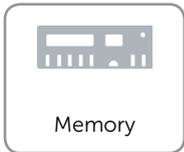
Specifications

Video

	Inspiron 14-3451	Inspiron 14-3458
Controller:		
Integrated	Intel HD Graphics	• Intel HD Graphics • Intel HD Graphics 4400 • Intel HD Graphics 5500
Discrete	N/A	NVIDIA GeForce 820M
Memory:		
Integrated	Shared system memory	Shared system memory
Discrete	N/A	• 1 GB DDR3L • 2 GB DDR3L
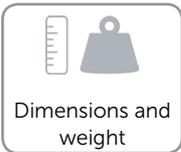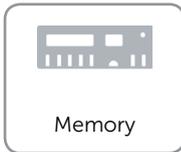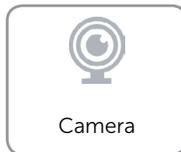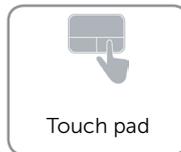
Dimensions and weight	System information	Memory	Ports and connectors	Communications	Video	Audio	Storage
Media-card reader	Display	Keyboard	Camera	Touch pad	Battery	Power adapter	Computer environment

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

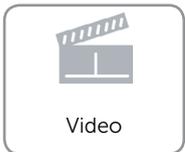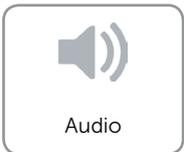|							
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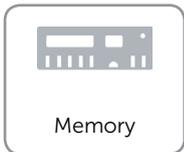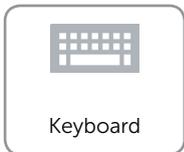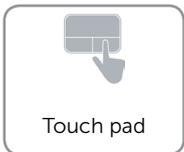
Specifications

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

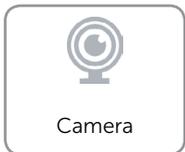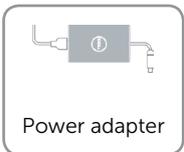| Dimensions and weight	System information	Memory	Ports and connectors	Communications	Video	Audio	Storage

Media-card reader	Display	Keyboard	Camera	Touch pad	Battery	Power adapter	Computer environment
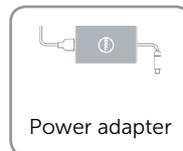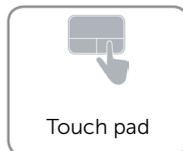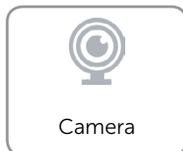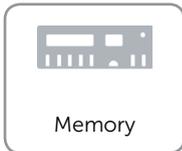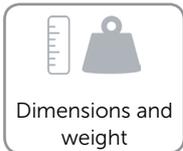
Media-card reader

Type	One SD card slot
Cards supported	SD card

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

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

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

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Media-card reader

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Keyboard

Camera
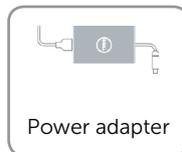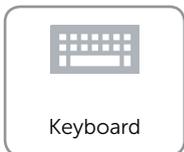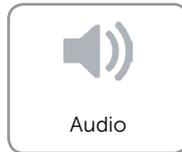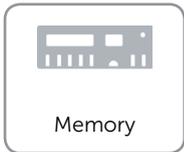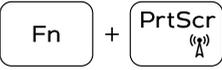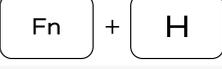
Touch pad

Battery

Power adapter

Computer environment

Shortcut keys

Key	Function	Key Combo	Function
F1 ◀×	Mute audio	Fn + Esc 🔒	Toggle Fn-key lock
F2 ◀	Decrease volume	Fn + PrtScr	Turn off/on wireless
F3 ◀))	Increase volume	Fn + Ctrl	Open application menu
F4 ⏮	Play previous track/chapter	Fn + Insert	Sleep
F5 ▶❚❚	Play/Pause	Fn + B	Pause/Break
F6 ⏭	Play next track/chapter	Fn + H	Toggle between hard-drive activity light/battery-status light
F8	Switch to external display	Fn + R	System request
F9 🔍	Search	Fn + S	Toggle scroll lock
F11 ☀	Decrease brightness	Fn + ← Home	Home
F12 ☀	Increase brightness	Fn + End →	End
		Fn + ↑ PgUp	Page up
		Fn + ↓ PgDn	Page down

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
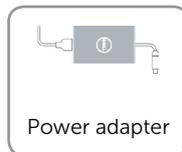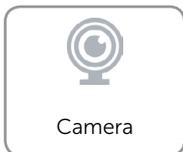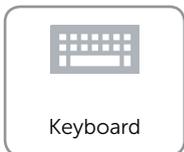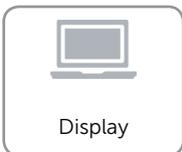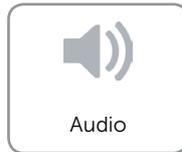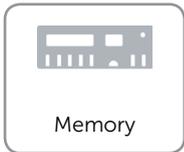
Specifications

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

Battery

Type	• 4-cell 40 WHr smart Lithium ion • 4-cell 47 WHr smart Lithium ion
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

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
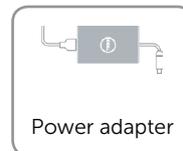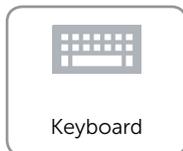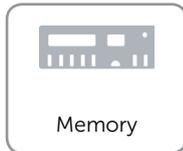
Power adapter

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	
	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.

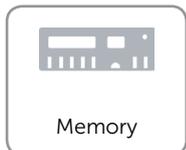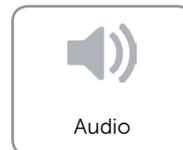† Measured using a 2 ms half-sine pulse when the hard drive is in use.

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

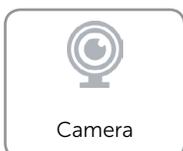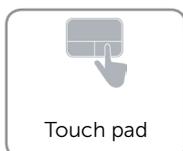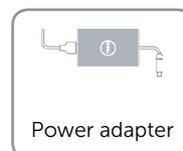|							
Dimensions and weight	System information	Memory	Ports and connectors	Communications	Video	Audio	Storage
Media-card reader	Display	Keyboard	Camera	Touch pad	Battery	Power adapter	Computer environment