Inspiron 15 Gaming
Setup and Specifications

Notes, cautions, and warnings

NOTE: A NOTE indicates important information that helps you make better use of your computer.

CAUTION: A CAUTION indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.

WARNING: A WARNING indicates a potential for property damage, personal injury, or death.

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Contents

Set up your computer

1   Connect the power adapter and press the power button.

2 Follow the instructions on the screen to finish Windows setup:

    a) Connect to a wireless network.
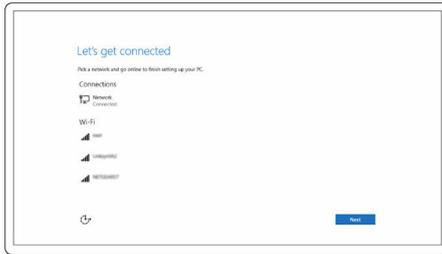
    b) Sign in to your Microsoft account or create a new account.

3 Locate Dell apps.

Register your computer

Dell Help & Support

SupportAssist — Check and update your computer

Views

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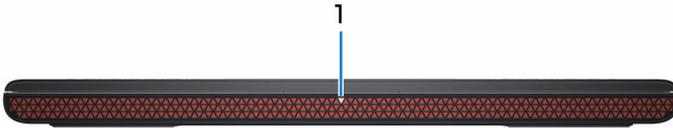
1 **Power and battery-status light/hard-drive activity light**

Indicates the battery-charge status or the hard-drive activity.

📝 **NOTE:** Press Fn+H to toggle this light between power and battery-status light and hard-drive activity light.

Hard-drive activity light

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

Power and battery-status light
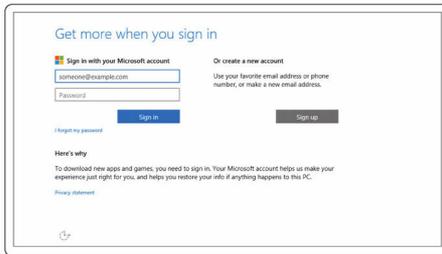
Indicates the power and battery-charge status.

Solid white — Power adapter is connected and the battery has more than 5% charge.

Amber — 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.

Left

1   **Security-cable slot**

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

2   **Power-adapter port**

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

3   **USB 3.0 port**

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

4   **Media-card reader**

Reads from and writes to media cards.

Right
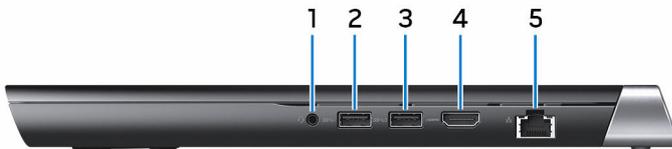
1   **Headset port**

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

2   **USB 3.0 port**

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

3   **USB 3.0 port with PowerShare**

Connect peripherals such as storage devices and printers.

Provides data transfer speeds up to 5 Gbps. PowerShare enables you to charge your USB devices even when your computer is turned off.

NOTE: If your computer is turned off or in hibernate state, you must connect the power adapter to charge your devices using the PowerShare port. You must enable this feature in the BIOS setup program.

NOTE: Certain USB devices may not charge when the computer is turned off or in sleep state. In such cases, turn on the computer to charge the device.

4   **HDMI port**

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

5   **Network port**

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

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 and two finger tap to right-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.

Display
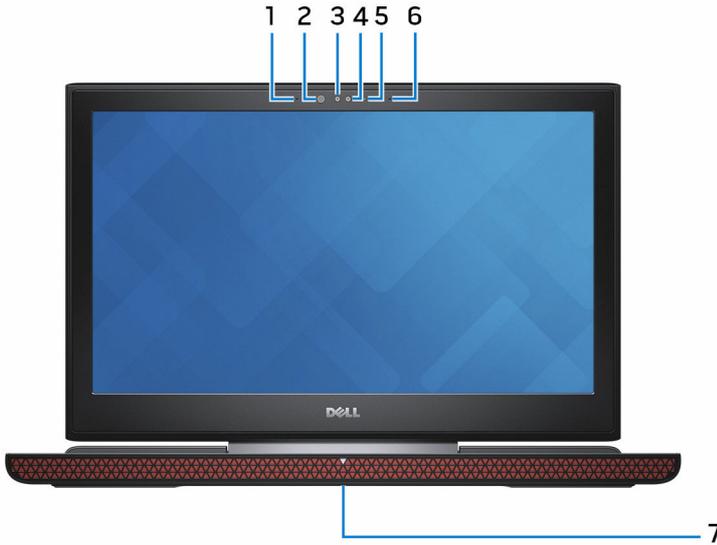
1   **Left microphone**

   Provides digital sound input for audio recording and voice calls.

2   **Infrared emitter (touch screen)**

   Emits infrared light, which enables the infrared camera to sense depth and track motion.

3   **Infrared camera (touch screen)**

   Enables you to video chat, capture photos, and record videos. Depth-sensing feature of the camera enhances security when paired with Windows Hello.

4   **Camera**

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

5   **Camera-status light**

   Turns on when the camera is in use.

6   **Right microphone**

Provides digital sound input for audio recording and voice calls.

7   **Service Tag label**

The Service Tag is a unique alphanumeric identifier that enables Dell service technicians to identify the hardware components in your computer and access warranty information.

Specifications

Dimensions and weight

Height	25.3 mm (1 in)
Width	384.90 mm (15.15 in)
Depth	274.70 mm (10.81 in)
Weight (maximum)	• Touch: 2.76 kg (6.08 lb) • Non-touch: 2.65 kg (5.84 lb)

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

System information

Computer model	Inspiron 15-7566
Processor	6th generation Intel Core i5/i7
Chipset	Intel HM170

Memory

Slots	Two SODIMM slots
Type	DDR4
Speed	2133 MHz
Configurations supported	4 GB, 8 GB, 16 GB, and 32 GB

Ports and connectors

External:	
Network	One RJ-45 port
USB	- One USB 3.0 port with PowerShare - Two USB 3.0 ports
Audio/Video	- One HDMI port - One headset (headphone and microphone combo) port

Internal:	
M.2 Card	- One M.2 slot for SSD card - One M.2 slot for WiFi/Bluetooth

Communications

Wireless	- Wi-Fi 802.11 ac - Bluetooth 4.2 - Miracast

Audio

Controller	Realtek ALC3246 with Waves MaxxAudio Pro
Speakers	Two
Speaker output	- Average: 2 W - Peak: 2.5 W
Subwoofer	One
Subwoofer output	Average: 3 W

	• Peak: 3.5 W
Microphone	Digital-array microphones in camera assembly
Volume controls	Media-control shortcut keys

Storage

Interface	• SATA 6 Gbps • PCIe/NVMe
Hard drive	One 2.5-inch drive (SATA)
Solid-state drive	One M.2 drive (SATA or PCIe/NVMe)

Media-card reader

Type	One 2-in-1 slot
Cards supported	• SD card • MultiMedia Card (MMC)

Keyboard

Type	• Chiclet backlit keyboard (red/white) ▨ **NOTE:** The red backlit keyboard is available only in specific regions. • Non-backlit 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.

Keyboard shortcuts

Camera

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

Touch pad

Resolution	• Horizontal: 1228 • Vertical: 928
Dimensions	• Height: 80 mm (3.15 in) • Width: 105 mm (4.13 in)

Power adapter

Type	130 W
Input voltage	100 VAC−240 VAC
Input frequency	50 Hz−60 Hz
Input current (maximum)	2.50 A
Output current (continuous)	6.70 A
Rated output voltage	19.50 VDC
Temperature range: Operating	0°C to 40°C (32°F to 104°F)
Temperature range: Storage	−40°C to 70°C (−40°F to 158°F)

Battery

Type	6-cell "smart" lithium ion (74 WHr)
Width	177.80 mm (7 in)
Depth	87.85 mm (3.46 in)
Height	11.30 mm (0.44 in)
Weight (maximum)	0.36 kg (0.79 lb)
Voltage	11.10 VDC
Charging time (approximate)	4 hours (when the computer is off)
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

Display

	15-inch FHD non-touch screen	15-inch FHD touch screen	15-inch UHD non-touch screen
Type	15-inch FHD non-touch screen	15-inch FHD touch screen	15-inch UHD non-touch screen
Resolution (maximum)	1920 x 1080	1920 x 1080	3840 x 2160
Viewing angle (Left/Right/Up/Down)	40/40/10/30 degrees	80/80/80/80 degrees	80/80/80/80 degrees
Pixel pitch	0.179 mm		0.090 mm
Height (excluding bezel)	193.59 mm (7.62 in)		194.40 mm (7.65 in)

Width (excluding bezel)	344.16 mm (13.55 in)	345.60 mm (13.61 in)
Diagonal (excluding bezel)	394.87 mm (15.55 in)	396.50 mm (15.61 in)
Refresh rate	60 Hz	
Operating angle	0 degree (closed) to 135 degrees	
Controls	Brightness can be controlled using shortcut keys	

Video

	Integrated	Discrete
Controller	Intel HD Graphics 530	NVIDIA GeForce GTX960M
Memory	Shared system memory	4 GB GDDR5

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.

Keyboard shortcuts

Keys	Description
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
F11	Decrease brightness
F12	Increase brightness
Fn + PrtScr	Turn off/on wireless
Fn + B	Pause/Break
Fn + Insert	Sleep
Fn + S	Toggle scroll lock
Fn + H	Toggle between power and battery-status light/hard-drive activity light

Keys	Description
Fn + R	System request
Fn + Ctrl	Open application menu
Fn + Esc	Toggle Fn-key lock
Fn + End →	End
Fn + ←Home	Home
Fn + ↓ PgDn	Page down
Fn + ↑ PgUp	Page up

Getting help and contacting Dell

Self-help resources

You can get information and help on Dell products and services using these self-help resources:

Information about Dell products and services	www.dell.com
Dell Help & Support app	
Get started app	
Accessing help	In Windows search, type `Help and Support`, and press Enter.
Online help for operating system	www.dell.com/support/windows www.dell.com/support/linux
Troubleshooting information, user manuals, setup instructions, product specifications, technical help blogs, drivers, software updates, and so on.	www.dell.com/support
Learn about your operating system, setting up and using your computer, data backup, diagnostics, and so on.	See *Me and My Dell* at www.dell.com/support/manuals.

Contacting Dell

To contact Dell for sales, technical support, or customer service issues, see www.dell.com/contactdell.

NOTE: Availability varies by country and product, and some services may not be available in your country.

NOTE: If you do not have an active internet connection, you can find contact information on your purchase invoice, packing slip, bill, or Dell product catalog.