

Inspiron 5580

Setup and Specifications



Notes, cautions, and warnings

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

 **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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Set up your Inspiron 5580

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

- 1 Connect the power adapter and press the power button.



NOTE: To conserve battery power, the battery might enter power saving mode. Connect the power adapter and press the power button to turn on the computer.

- 2 Finish operating system setup.

For Ubuntu:

Follow the instructions on the screen to finish setup.

For Windows:

Follow the on-screen instructions to complete the setup. When setting up, Dell recommends that you:

- Connect to a network for Windows updates.

NOTE: If connecting to a secured wireless network, enter the password for the wireless network access when prompted.

- If connected to the internet, sign-in with or create a Microsoft account. If not connected to the internet, create an offline account.
- On the **Support and Protection** screen, enter your contact details.

- 3 Locate and use Dell apps from the Windows Start menu—Recommended

Table 1. Locate Dell apps



SupportAssist

Proactively checks the health of your computer's hardware and software.

NOTE: Renew or upgrade your warranty by clicking the warranty expiry date in SupportAssist.



Dell Update

Updates your computer with critical fixes and important device drivers as they become available.



Dell Digital Delivery

Download software applications including software that is purchased but not pre-installed on your computer.

- 4 Create recovery drive for Windows.

 **NOTE:** It is recommended to create a recovery drive to troubleshoot and fix problems that may occur with Windows.

For more information, see [Create a USB recovery drive for Windows](#).

Create a USB recovery drive for Windows

Create a recovery drive to troubleshoot and fix problems that may occur with Windows. An empty USB flash drive with a minimum capacity of 16 GB is required to create the recovery drive.

NOTE: This process may take up to an hour to complete.

NOTE: The following steps may vary depending on the version of Windows installed. Refer to the [Microsoft support site](#) for latest instructions.

- 1 Connect the USB flash drive to your computer.
- 2 In Windows search, type *Recovery*.
- 3 In the search results, click **Create a recovery drive**.
The **User Account Control** window is displayed.
- 4 Click **Yes** to continue.
The **Recovery Drive** window is displayed.
- 5 Select **Back up system files to the recovery drive** and click **Next**.
- 6 Select the **USB flash drive** and click **Next**.
A message appears, indicating that all data in the USB flash drive will be deleted.
- 7 Click **Create**.
- 8 Click **Finish**.

For more information about reinstalling Windows using the USB recovery drive, see the *Troubleshooting* section of your product's *Service Manual* at www.dell.com/support/manuals.

Views of Inspiron 5580

Right



1 SD-card slot

Reads from and writes to the SD card.

2 USB 2.0 port

Connect peripherals such as external storage devices and printers. Provides data transfer speeds up to 480 Mbps.

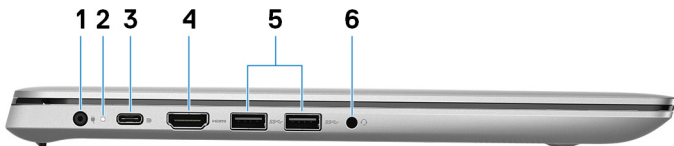
3 Network port

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

4 Security-cable slot (for Noble locks)

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

Left



1 Power-adaptor port

Connect a power adapter to provide power to your computer.

2 Power and battery-status light

Indicates the power state and battery state of the computer.

Solid white—Power adapter is connected and the battery is charging.

Solid amber—Battery charge is low or critical.

Off—Battery is fully charged.

3 USB 3.1 Gen 1 (Type-C) port/DisplayPort

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

NOTE: A USB Type-C to DisplayPort adapter (sold separately) is required to connect a DisplayPort device.

4 HDMI port

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

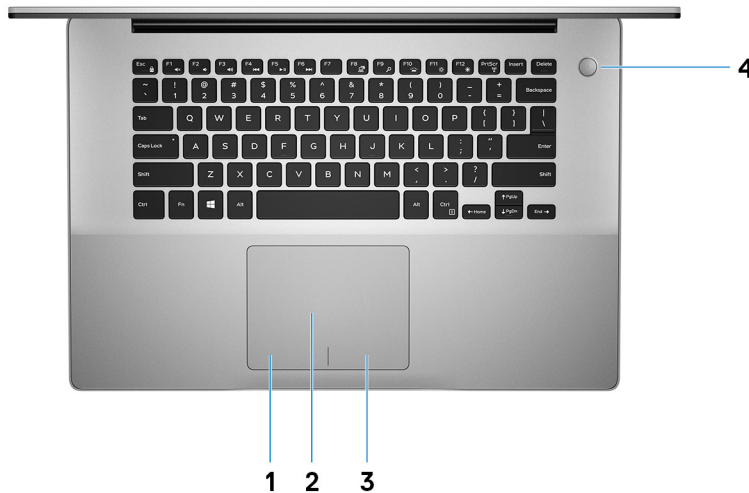
5 USB 3.0 ports (2)

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

6 Headset port

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

Base



1 Left-click area

Press to left-click.

2 Touchpad

Move your finger on the touchpad 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 with optional fingerprint reader

Press to turn on the computer if it is turned off, in sleep state, or in hibernate state.

When the computer is turned on, press the power button to put the computer into sleep state; press and hold the power button for 10 seconds to force shut-down the computer.

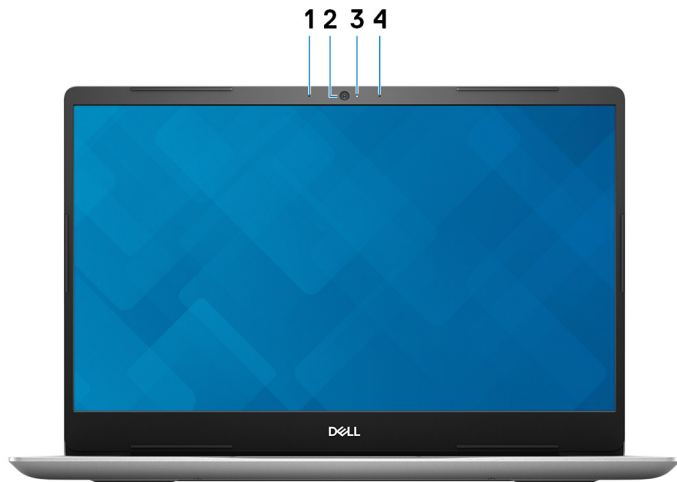
If the power button has a fingerprint reader, place your finger on the power button to log in.

NOTE: Before using the fingerprint reader, configure it in Windows to recognize your fingerprint as a passcode and enable access. For more information, see www.dell.com/support/windows.

NOTE: You can customize power-button behavior in Windows. For more information, see *Me and My Dell* at www.dell.com/support/manuals.

NOTE: The power-status light on the power button is available only on computers without the optional fingerprint reader. Computers shipped with the fingerprint reader integrated on the power button will not have the power-status light on the power button.

Display



1 Left microphone

Provides digital sound input for audio recording and voice calls.

2 Camera

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

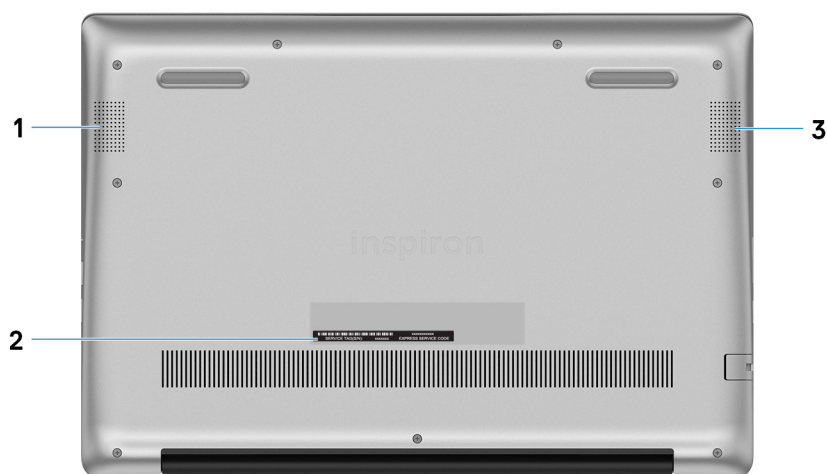
3 Camera-status light

Turns on when the camera is in use.

4 Right microphone

Provides digital sound input for audio recording and voice calls.

Bottom



1 **Left speaker**

Provides audio output.

2 **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.

3 **Right speaker**

Provides audio output.

Specifications of Inspiron 5580

Computer model

Inspiron 5580

Dimensions and weight

Table 2. Dimensions and weight

Height:

Front 18.04 mm (0.71 in.)

Rear 19.50 mm (0.77 in.)

Width 359.10 mm (14.14 in.)

Depth 249 mm (9.80 in.)

Weight (maximum) 1.89 kg (4.17 lb)



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

Processors

Table 3. Processor specifications

Processor	8 th Generation Intel Core i3 (i3-8145U)	8 th Generation Intel Core i5 (i5-8265U)	8 th Generation Intel Core i7 (i7-8565U)
Wattage	15 W	15 W	15 W
Core count/Thread count	2C/4T	4C/8T	4C/8T
Speed	2.1 GHz	1.6 GHz	1.8 GHz
L2 cache	256 KiB/core	256 KiB/core	256 KiB/core
L3 cache	4 MB	6 MB	8 MB
Integrated graphics	Intel UHD Graphics 620	Intel UHD Graphics 620	Intel UHD Graphics 620

Chipset

Table 4. Chipset specifications

Chipset	Integrated in the processor
DRAM bus width	x64
Flash EPROM	16 MB
PCIe bus	Up to Gen3
External bus frequency	Up to 8 GT/s

Operating system

- Windows 10 Home (64-bit)
- Windows 10 Professional (64-bit)
- Ubuntu

Ports and connectors

Table 5. Ports and connectors specifications

External:	
Network	One RJ-45 port
USB	<ul style="list-style-type: none">• One USB 3.1 Gen 1 (Type-C) port/DisplayPort• Two USB 3.1 Gen 1 ports• One USB 2.0 port
Audio	One headset (headphone and microphone combo) port
Video	One HDMI 1.4 port (supports up to 2K)
Memory card reader	One SD-card slot <ul style="list-style-type: none">• Standard SD card• MicroSD via transfer card
Micro subscriber identity module (uSIM) card	Not supported
Docking port	Not supported
Express card	Not supported
Power adapter port	4.5 mm
Smart card reader	Not supported
Security	Noble lock

Legacy ports

Not supported

Internal:

Expansion

Not supported

M.2

- One M.2 slot for Wi-Fi and Bluetooth combo card
- One M.2 2230/2280 slot for solid-state drive/Intel Optane memory

Memory

Table 6. Memory specifications

Slots	Two SODIMM slots
Type	Dual-channel DDR4
Speed	2666 MHz i NOTE: The 2666 MHz memory functions at 2400 MHz for 8th Generation Intel Core processors.
Maximum memory	32 GB
Minimum memory	8 GB
Memory per slot	4 GB, 8 GB, and 16 GB
Configurations supported	<ul style="list-style-type: none">• 4 GB DDR4 (1 x 4 GB)• 8 GB DDR4 (2 x 4 GB)• 8 GB DDR4 (1 x 8 GB)• 12 GB DDR4 (1 x 4 GB + 1 x 8 GB)• 16 GB DDR4 (2 x 8 GB)• 16 GB DDR4 (1 x 16 GB)• 32 GB DDR4 (2 x 16 GB)

Communications

Ethernet

Table 7. Ethernet specifications

Model number	Ethernet controller integrated in the system board
Transfer rate	10/100 Mbps

Wireless module

Table 8. Wireless module specifications

Model number	Intel 9462	Intel 9560	Qualcomm QCA9377 (DW1810)
Transfer rate	Up to 867 Mbps	Up to 433 Mbps	Up to 867 Mbps
Frequency bands supported	Dual band 2.4 GHz/5 GHz	Dual band 2.4 GHz/5 GHz	Dual band 2.4 GHz/5 GHz
Wireless standards	<ul style="list-style-type: none"> • WiFi 802.11ac • WiFi 802.11b/g/n 	<ul style="list-style-type: none"> • WiFi 802.11ac • WiFi 802.11b/g/n 	<ul style="list-style-type: none"> • WiFi 802.11ac • WiFi 802.11b/g/n
Encryption	<ul style="list-style-type: none"> • 64-bit/128-bit WEP • AES-CCMP • TKIP 	<ul style="list-style-type: none"> • 64-bit/128-bit WEP • AES-CCMP • TKIP 	<ul style="list-style-type: none"> • 64-bit/128-bit WEP • AES-CCMP • TKIP
Bluetooth	<ul style="list-style-type: none"> • Bluetooth 4.0 • Bluetooth 4.1 • Bluetooth 4.2 • Bluetooth 5.0 	<ul style="list-style-type: none"> • Bluetooth 4.0 • Bluetooth 4.1 • Bluetooth 4.2 • Bluetooth 5.0 	<ul style="list-style-type: none"> • Bluetooth 4.0 • Bluetooth 4.1 • Bluetooth 4.2

Audio

Table 9. Audio specifications

Controller	Realtek ALC3204 with Waves MaxxAudio Pro
Stereo conversion	24-bit DAC (Digital-to-Analog) and ADC (Analog-to-Digital)
Internal interface	Intel HDA (high-definition audio)
External interface	<ul style="list-style-type: none"> • 7.1 channel output via HDMI • Digital microphone input on camera module • Headset combo jack (stereo headphones/microphone-in)
Speakers	Two
Internal speaker amplifier	Integrated in ALC3204 (Class-D 2W)
External volume controls	Media-control shortcut keys
Speaker output:	
Average	2 W
Peak	2.5 W
Subwoofer output	Not supported

Storage

Table 10. Storage specifications

Storage type	Interface type	Capacity
One 2.5-inch hard drive	SATA (5400 RPM)	Up to 2 TB
One M.2 2230/2280 solid-state drive	PCIe Gen3 x4 NVMe, up to 32 Gbps	Up to 512 GB

Intel Optane memory (optional)

Intel Optane memory functions only as a storage accelerator. It neither replaces nor adds to the memory (RAM) installed on your computer.

NOTE: Intel Optane memory is supported on computers that meet the following requirements:

- 7th Generation or higher Intel Core i3/i5/i7 processor
- Windows 10 64-bit version or higher (Anniversary Update)
- Intel Rapid Storage Technology driver version 15.9.1.1018 or higher

Table 11. Intel Optane memory specifications

Interface	PCIe 3x2 NVMe 1.1
Connector	M.2 card slot (2230/2280)
Configurations supported	<ul style="list-style-type: none">• 7th Generation or higher Intel Core i3/i5/i7 processor• Windows 10 64-bit version or higher• Intel Rapid Storage Technology driver version 15.9 or higher
Capacity	16 GB

Media-card reader

Table 12. Media-card reader specifications

Type	One SD-card slot
Cards supported	<ul style="list-style-type: none">• Secure Digital (SD)• microSD via transfer card

Keyboard

Table 13. Keyboard specifications

Type	<ul style="list-style-type: none">• Standard non-backlit keyboard
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Layout	<ul style="list-style-type: none"> Backlit keyboard (optional)
Number of keys	<p>QWERTY</p> <ul style="list-style-type: none"> United States and Canada: 80 keys United Kingdom: 81 keys Japan: 84 keys
Size	<ul style="list-style-type: none"> X = 19.05 mm (0.75 in.) key pitch Y = 18.05 mm (0.71 in.) key pitch
Shortcut keys	<p>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.</p> <p>NOTE: You can define the primary behavior of the function keys (F1–F12) by changing Function Key Behavior in BIOS setup program.</p> <p>Keyboard shortcuts</p>

Camera

Table 14. Camera specifications

Number of cameras	One
Type	One HD fixed focus
Location	Front (above the LCD screen)
Sensor type	CMOS sensor technology
Resolution:	
Camera:	
Still image	1280 x 720 (HD)
Video	1280 x 720 (HD) at 30 fps
Infrared camera:	
Still image	Not supported
Video	Not supported
Diagonal viewing angle:	
Camera	78.6 degrees
Infrared camera	Not supported

Touchpad

Table 15. Touchpad specifications

Resolution:		
	Horizontal	1229
	Vertical	929
Dimensions:		
	Horizontal	105 mm (4.13 in.)
	Vertical	80 mm (3.15 in.)

Touchpad gestures

For more information about touchpad gestures for Windows 10, see the Microsoft knowledge base article [4027871](https://support.microsoft.com/4027871) at support.microsoft.com.

Power adapter

Table 16. Power adapter specifications

Type	45 W	65 W
Diameter (connector)	4.5 mm	4.5 mm
Input voltage	100 VAC-240 VAC	100 VAC-240 VAC
Input frequency	50 Hz-60 Hz	50 Hz-60 Hz
Input current (maximum)	1.30 A	1.70 A
Output current (continuous)	2.31 A	3.34 A
Rated output voltage	19.50 VDC	19.50 VDC
Temperature range:		
Operating	0°C to 40°C (32°F to 104°F)	0°C to 40°C (32°F to 104°F)
Storage	−40°C to 70°C (−40°F to 158°F)	−40°C to 70°C (−40°F to 158°F)

Battery

Table 17. Battery specifications

Type	3-cell "smart" lithium-ion (42 WHr)
Voltage	11.40 VDC
Weight (maximum)	0.2 kg (0.44 lb)
Dimensions:	
Height	5.90 mm (0.23 in.)
Width	97.15 mm (3.82 in.)
Depth	184.15 mm (7.25 in.)
Temperature range:	
Operating	0°C to 35°C (32°F to 95°F)
Storage	–40°C to 65°C (–40°F to 149°F)
Operating time	Varies depending on operating conditions and can significantly reduce under certain power-intensive conditions.
Charging time (approximate)	4 hours (when the computer is off) <div><div>ⓘ</div><div>NOTE: Control the charging time, duration, start and end time, and so on using the Dell Power Manager application. For more information on the Dell Power Manager see, <i>Me and My Dell</i> on https://www.dell.com/</div></div>
Life span (approximate)	300 discharge/charge cycles
Coin-cell battery	CR-2032

Display

Table 18. Display specifications

Type	FHD Anti-Glare
Panel technology	In-plane Switching (IPS) panel
Luminance (typical)	220 nits
Dimensions (active area):	
Height	205.7 mm (8.10 in.)
Width	355.7 mm (13.81 in.)

Diagonal	394.9 mm (15.55 in.)
Native resolution	1920 x 1080
Megapixels	2.07
Pixels Per Inch (PPI)	141
Contrast ratio (minimum)	400:1
Response time (maximum)	35 msec rise/fall
Refresh rate	60 Hz
Horizontal view angle	+/- 80 degrees
Vertical view angle	+/- 80 degrees
Pixel pitch	0.179 mm
Power consumption (maximum)	4.2 W
Anti-glare vs glossy finish	Anti-glare
Touch options	Not supported

Fingerprint reader (optional)

Table 19. Fingerprint reader specifications

Sensor technology	Capacitive
Sensor resolution	500 PPI
Sensor area	5.5 mm x 4.4 mm (0.22 in. x 0.17 in.)
Sensor pixel size	108 pixels x 88 pixels

Video

Table 20. Discrete graphics specifications

Discrete graphics			
Controller	External display support	Memory size	Memory type
Nvidia GeForce MX130/ MX150	One HDMI port	2 GB	GDDR5

Table 21. Integrated graphics specifications

The following table provides the detailed integrated graphics specifications of Inspiron 5580.

Controller	External display support	Memory size	Memory type
Intel UHD Graphics 620	One HDMI port	Shared system memory	System memory

Computer environment

Airborne contaminant level: G1 as defined by ISA-S71.04-1985

Table 22. Computer environment

	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 3,048 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

NOTE: Keyboard characters may differ depending on the keyboard language configuration. Keys used for shortcuts remain the same across all language configurations.

Table 23. List of keyboard shortcuts

Keys	Description
	Mute audio
	Decrease volume
	Increase volume
	Play previous track/chapter
	Play/Pause
	Play next track/chapter
	Switch to external display
	Search
	Toggle keyboard backlight (optional)
	Decrease brightness
	Increase brightness
 + 	Turn off/on wireless
 + 	Toggle scroll lock
 + 	Toggle Fn-key lock
 + 	Pause/Break
 + 	Sleep
 + 	System request
 + 	System request

Keys



Description

Toggle between battery-status light and hard-drive activity light




NOTE: Hard-drive activity light is supported only on computers shipped with a hard drive.

Getting help and contacting Dell

Self-help resources

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

Table 24. Self-help resources

Information about Dell products and services	www.dell.com
Tips	
Contact Support	In Windows search, type <code>Contact Support</code> , 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
Dell knowledge base articles for a variety of computer concerns.	<ol style="list-style-type: none"> 1 Go to www.dell.com/support. 2 Type the subject or keyword in the Search box. 3 Click Search to retrieve the related articles.
Learn and know the following information about your product:	See <i>Me and My Dell</i> at www.dell.com/support/manuals .
<ul style="list-style-type: none"> • Product specifications • Operating system • Setting up and using your product • Data backup • Troubleshooting and diagnostics • Factory and system restore • BIOS information 	<p>To locate the <i>Me and My Dell</i> relevant to your product, identify your product through one of the following:</p> <ul style="list-style-type: none"> • Select Detect Product. • Locate your product through the drop-down menu under View Products. • Enter the Service Tag number or Product ID in the search bar.

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.