

Inspiron 17 5000

Setup and Specifications

Computer Model: Inspiron 5770
Regulatory Model: P35E
Regulatory Type: P35E001



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 computer

- 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 on-screen instructions to complete the 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



Dell Product Registration

Register your computer with Dell.



Dell Help & Support

Access help and support for your computer.



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.

Reinstall Windows using a USB recovery drive



CAUTION: This process formats the hard drive and removes all data on your computer. Ensure that you back up data on your computer before beginning this task.



NOTE: Before reinstalling Windows, ensure your computer has more than 2 GB of memory and more than 32 GB of storage space.

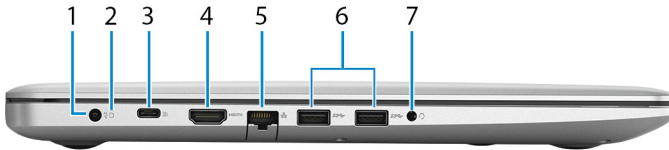


NOTE: This process may take up to an hour to complete and your computer will restart during the recovery process.

- 1 Connect the USB recovery drive to your computer.
- 2 Restart your computer.
- 3 Press F12 after the Dell logo is displayed on the screen to access the boot menu.
A **Preparing one-time boot menu** message appears.
- 4 After the boot menu loads, select the USB recovery device under **UEFI BOOT**.
The system reboots and a screen to **Choose the keyboard layout** is displayed.
- 5 Choose your keyboard layout.
- 6 In the **Choose an option** screen, click **Troubleshoot**.
- 7 Click **Recover from a drive**.
- 8 Choose one of the following options:
 - **Just remove my files** to do a quick format.
 - **Fully clean the drive** to do a complete format.
- 9 Click **Recover** to start the recovery process.

Views

Left



1 Power-adaptor port

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

2 Battery-status light/hard-drive activity light

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



NOTE: Press **Fn+H** to toggle between the 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.



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

Battery-status light

Indicates the 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.

3 **USB 3.1 Gen 1 (Type-C) port with Power Delivery/DisplayPort (optional)**

Connect peripherals such as external storage devices, printers, and external displays.

Supports Power Delivery that enables two-way power supply between devices. Provides up to 15 W power output that enables faster charging.



NOTE: An 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 **Network port**

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

6 **USB 3.1 Gen 1 ports (2)**

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

7 **Headset port**

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

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 **Optical drive**

Reads from and writes to CDs, DVDs, and Blu-ray discs.



NOTE: Blu-ray support is only available in certain regions.

4 **Security-cable slot (for Noble locks)**

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

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.

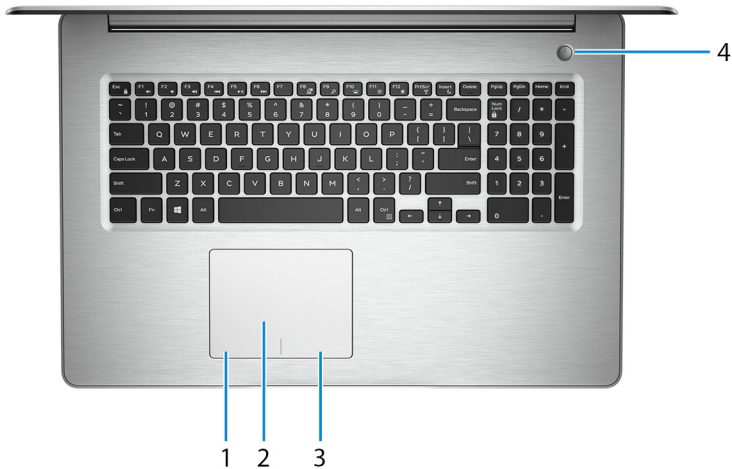
3 **Camera-status light**

Turns on when the camera is in use.

4 **Right microphone**

Provides digital sound input for audio recording and voice calls.

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

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

Computer model

Table 2. Computer model

Computer model	Inspiron 5770
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System information

Table 3. System information

Processor	8 th Generation Intel Core i3/i5/i7 <ul style="list-style-type: none">· i3-8130U· i5-8250· i7-8550 7 th Generation Intel Core i3/i5/i7 <ul style="list-style-type: none">· i3-7020· i3-7130U· i5-7200· i7-7500 6 th Generation Intel Core i3: i3-6006S Intel Pentium: PEN4415 Intel Celeron: CEL3865U
Chipset	Integrated in processor

Operating system


Table 4. Operating system

Operating systems supported	<ul style="list-style-type: none">· Windows 10 Home (64-bit)· Windows 10 Professional (64-bit)· Ubuntu
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Dimensions and weight

Table 5. Dimensions and weight

Height	25 mm (0.98 in)
Width	415.40 mm (16.35 in)
Depth	279.20 mm (11 in)
Weight	2.90 kg (6.39 lb)


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

Memory

Table 6. Memory specifications

Slots	Two SODIMM slots
Type	Dual-channel DDR4
Speed	Up to 2400 MHz
Configurations supported:	
Per memory module slot	2 GB, 4 GB, 8 GB, and 16 GB
Total memory	4 GB, 6 GB, 8 GB, 12 GB, 16 GB, and 32 GB

Intel Optane memory (optional)

 **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 or higher

Table 7. Intel Optane memory specifications

Interface	PCIe 3x2, NVMe 1.1
Connector	M.2 Card slot (2280)
Configurations supported	<ul style="list-style-type: none">• 16 GB• 32 GB



NOTE: Intel Optane memory functions as a storage accelerator. It does not replace DRAM and will not add to the RAM capacity installed on your computer.

Ports and connectors

Table 8. Ports and connectors

External:	
Network	One RJ-45 port
USB	<ul style="list-style-type: none">• One USB 3.1 Gen 1 (Type-C) with Power Delivery/DisplayPort (optional)• Two USB 3.1 Gen 1 ports• One USB 2.0 port
Audio/Video	<ul style="list-style-type: none">• One HDMI 1.4b port• One headset (headphone and microphone combo) port

Table 9. Ports and connectors

Internal:	
M.2 slot	<ul style="list-style-type: none">• One M.2 slot for the Wi-Fi and Bluetooth combo card• One M.2 slot for solid-state drive
Technology supported	PCI Express

Communications

Table 10. Supported communications

Ethernet	10/100 Mbps Ethernet controller integrated on system board
Wireless	<ul style="list-style-type: none">• Wi-Fi 802.11ac + Wi-Fi 802.11a/b/g/n• Wi-Fi 802.11b/g/n• Bluetooth 4.0• Bluetooth 4.1• Bluetooth 4.2• Miracast



NOTE: Windows 10 currently supports up to Bluetooth 4.1.

Wireless module

Table 11. Wireless module specifications

Transfer rate	Up to 433 Mbps	Up to 867 Mbps	Up to 150 Mbps
Frequency bands supported	Dual band 2.4 GHz/5 GHz	Dual band 2.4 GHz/5 GHz	2.4 GHz only
Encryption	<ul style="list-style-type: none">• 64-bit and 128-bit WEP• CKIP• TKIP• AES-CCMP	<ul style="list-style-type: none">• 64-bit and 128-bit WEP• CKIP• TKIP• AES-CCMP	<ul style="list-style-type: none">• 64-bit and 128-bit WEP• CKIP• TKIP• AES-CCMP

Audio

Table 12. Audio specifications

Controller	Realtek ALC3234 with Waves MaxxAudio Pro
Speakers	Two
Speaker output	<ul style="list-style-type: none">• Average: 2 W• Peak: 2.5 W
Microphone	Digital-array microphones

Storage

Table 13. Storage specifications

Interface	<ul style="list-style-type: none">• SATA 6 Gbps for hard drive• SATA 6 Gbps for solid-state drive• SATA 1.5 Gbps for optical drive
Hard drive	One 2.5-inch drive
Maximum configuration supported	Up to 2 TB (5400 rpm)
Solid-state drive (SSD)	<ul style="list-style-type: none">• M.2 SATA SSD• M.2 NVMe SSD
Maximum configuration supported	<ul style="list-style-type: none">• M.2 SATA SSD: Up to 256 GB• M.2 NVMe SSD: Up to 512 GB
Technology supported	PCI Express
Optical drive	One 9.5 mm DVD+/-RW drive or Blu-ray Disc writer



NOTE: Blu-ray support is only available in certain regions.



Media-card reader

Table 14. Media-card reader specifications

Type	One SD-card slot
Cards supported	SD card

Keyboard

Table 15. Keyboard specifications

Type	<ul style="list-style-type: none">• Standard keyboard• Backlit keyboard (optional)
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: Press Fn+Esc to switch the primary behavior of the function keys (F1–F12) between two modes – multimedia key mode and function key mode.</p> <p> NOTE: You can define the primary behavior of the shortcut keys by pressing Fn+Esc or by changing Function Key Behavior in System Setup.</p>

[Keyboard shortcuts](#)

Camera

Table 16. Camera specifications

Resolution	<ul style="list-style-type: none">• Still image: 0.92 megapixel• Video: 1280 x 720 (HD) at 30 fps
Diagonal viewing angle	75 degrees

Touchpad

Table 17. Touchpad

Resolution	<ul style="list-style-type: none">• Horizontal: 1228• Vertical: 928
Dimensions	<ul style="list-style-type: none">• Height: 80 mm (3.15 in)• Width: 105 mm (4.13 in)

Touchpad gestures

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

Power adapter

Table 18. Power adapter specifications

Type	<ul style="list-style-type: none">• 45 W: For computers shipped with integrated graphics card• 65 W: For computers shipped with discrete graphics card
Diameter (connector)	4.5 mm
Input voltage	100 VAC–240 VAC
Input frequency	50 Hz–60 Hz

Input current (maximum)	1.30 A/1.60 A/1.70 A
Output current (continuous)	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)

Battery

Table 19. Battery specifications

Type	3-cell "smart" lithium ion (42 WHr)
Dimensions:	
Width	184.15 mm (7.25 in)
Depth	97.15 mm (3.82 in)
Height	5.9 mm (0.23 in)
Weight (maximum)	0.2 kg (0.44 lb)
Voltage	11.40 VDC
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
Operating time	Varies depending on operating conditions and can significantly reduce under certain power-intensive conditions.

Video

Table 20. Video specifications

	Integrated	Discrete
Controller	<ul style="list-style-type: none">Intel UHD Graphics 620 on computers shipped with 8th Generation Intel Core i5/i7 processorsIntel HD Graphics 620 on computers shipped with 7th Generation Intel Core i3/15/i7 processorsIntel HD Graphics 610 on computers shipped with Intel Pentium processor	AMD Radeon 530
Memory	Shared system memory	Up to 4 GB GDDR5

Display

Table 21. Display specifications

Type	17.3-inch HD+ Non-touchscreen TN (Twisted Nematic) panel	17.3-inch FHD Non-touchscreen IPS (In-Plane Switching) panel
Resolution (maximum)	1600 x 900	1920 x 1080
Viewing angle	40/40/10/30	80/80/80/80
Pixel pitch	0.2388 mm	0.1989 mm
Dimensions		
Height (excluding bezel)	382.08 mm (15.04 in)	381.89 mm (15.03 in)
Width (excluding bezel)	214.92 mm (8.46 in)	214.81 mm (8.46 in)
Diagonal (excluding bezel)	439.42 mm (17.30 in)	439.42 mm (17.30 in)

Type	17.3-inch HD+ Non-touchscreen TN (Twisted Nematic) panel	17.3-inch FHD Non-touchscreen IPS (In-Plane Switching) panel
Refresh rate	60 Hz	
Operating angle	0 degrees (closed) to 135 degrees	
Controls	Brightness can be controlled using shortcut keys	

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)	–15.20 m to 3048 m (–50 ft to 10,000 ft)	–15.20 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.

Some keys on your keyboard have two symbols on them. These keys can be used to type alternate characters or to perform secondary functions. The symbol shown on the lower part of the key refers to the character that is typed out when the key is pressed. If you press shift and the key, the symbol shown on the upper part of the key is typed out. For example, if you press **2**, 2 is typed out; if you press **Shift + 2**, @ is typed out.













The keys F1-F12 at the top row of the keyboard are function keys for multi-media control, as indicated by the icon at the bottom of the key. Press the function key to invoke the task represented by the icon. For example, pressing F1 mutes the audio (refer to the table below).






















However, if the function keys F1-F12 are needed for specific software applications, multi-media functionality can be disabled by pressing **Fn + Esc**. Subsequently, multi-media control can be invoked by pressing **Fn** and the respective function key. For example, mute audio by pressing **Fn + F1**.

















NOTE: You can also define the primary behavior of the function keys (F1–F12) by changing Function Key Behavior in BIOS setup program.






Table 23. List of keyboard shortcuts

Function key	Re-defined key (for multi-media control)	Behavior
	 + 	Mute audio
	 + 	Decrease volume
	 + 	Increase volume
	 + 	Play previous track/ chapter

Function key	Re-defined key (for multi-media control)	Behavior
	 + 	Play/Pause
	 + 	Play next track/chapter
	 + 	Switch to external display
	 + 	Search
	 + 	Toggle keyboard backlight (optional)
	 + 	Decrease brightness
	 + 	Increase brightness

The **Fn** key is also used with selected keys on the keyboard to invoke other secondary functions.

Function key	Behavior
 + 	Turn off/on wireless
 + 	Pause/Break
 + 	Sleep
 + 	Toggle scroll lock
 + 	Toggle between power and battery-status light/hard-drive activity light
 + 	System request
 + 	Open application menu

Function key	Behavior
	Toggle Fn-key lock
	Page up
	Page down
	Home
	End

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 Contact 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

Dell knowledge base articles for a variety of computer concerns.

- 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:

- Product specifications
- Operating system
- Setting up and using your product
- Data backup
- Troubleshooting and diagnostics

See *Me and My Dell* at www.dell.com/support/manuals.

To locate the *Me and My Dell* relevant to your product, identify your product through one of the following:

- Select **Detect Product**.

- Factory and system restore
- BIOS information
- 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.