Inspiron 15 7000

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.**

Contents

Set up your computer

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

2. Finish operating system setup.

   For Windows:

   a) Connect to a network.
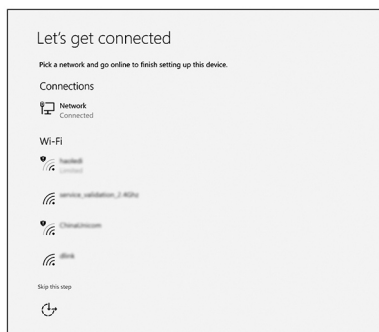
   (i) **NOTE: If you are connecting to a secured wireless network, enter the password for the wireless network access when prompted.**

   b) Sign in to your Microsoft account or create a new account.
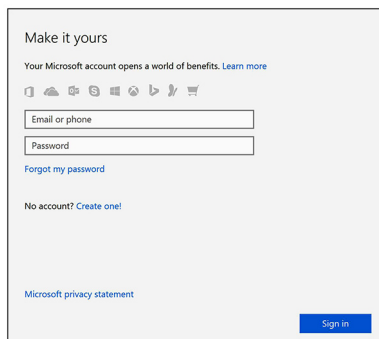
   For Ubuntu:

   Follow the instructions on the screen to finish setup.

3. Locate Dell apps in Windows.

Table 1. Locate Dell apps

	Register your computer
	Dell Help & Support
	SupportAssist—Check and update your computer
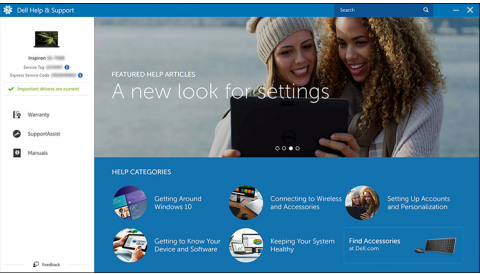
4. Create recovery drive for Windows. It is recommended to create a recovery drive to troubleshoot and fix problems that may occur with Windows.
   For more information, see Create a USB recovery drive for Windows.

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.

Topics:

- Reinstall Windows using a USB recovery drive

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

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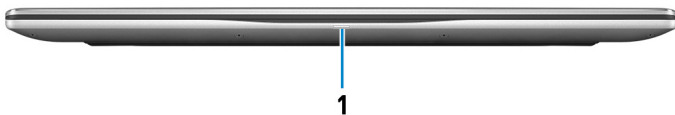
1. **Power and battery-status light/hard-drive activity light**

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

   (i) **NOTE: Press Fn+H to toggle between the 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. **Power-adapter port**

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

2. **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.

   (i) **NOTE: An adapter is required to connect a DisplayPort device.**

3. **HDMI port**

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

4. **USB 3.1 Gen 1 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.

   (i) **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.**

> (i) **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.**

5. **USB 3.1 Gen 1 port**

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

6. **Headset port**

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

Right

1. **Security-cable slot (for Noble locks)**

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

2. **Network port**

    Connect an Ethernet (RJ45) cable from a router or a broadband modem for network or Internet access.
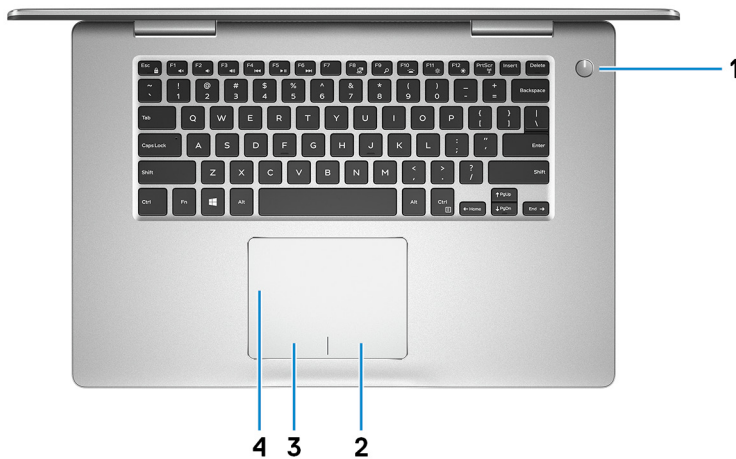
3. **USB 3.1 Gen 1 port**

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

4. **SD-card slot**

    Reads from and writes to the SD card.

Base

1. **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.

    > (i) **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.**

2. **Right-click area**
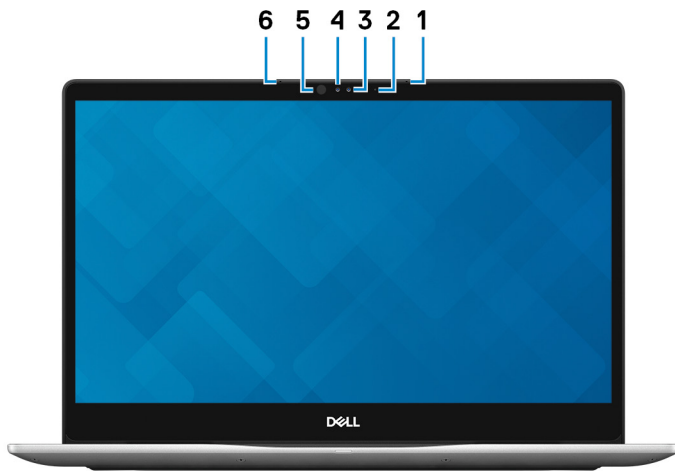
    Press to right-click.

3. **Left-click area**

    Press to left-click.

4. **Touchpad**

Move your finger on the touchpad to move the mouse pointer. Tap to left-click and two finger tap to right-click.

Display (touchscreen)

1. **Right microphone**

   Provides digital sound input for audio recording and voice calls.
2. **Camera-status light**

   Turns on when the camera is in use.
3. **Camera**

   Enables you to video chat, capture photos, and record videos.
4. **Infrared camera**

   Enhances security when paired with Windows Hello face authentication.
5. **Infrared emitter**

   Emits infrared light, which enables the infrared camera to sense and track motion.
6. **Left microphone**

   Provides digital sound input for audio recording and voice calls.

Display (non-touchscreen)
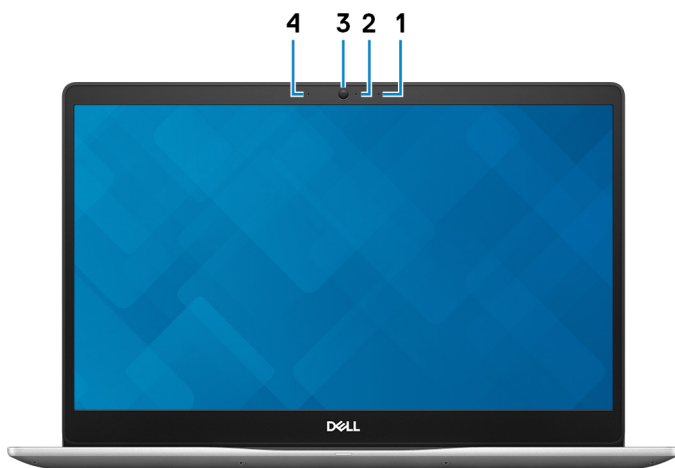
1. **Right microphone**

   Provides digital sound input for audio recording and voice calls.
2. **Camera-status light**

Turns on when the camera is in use.

3. **Camera**

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

4. **Left 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

System information

Table 2. System information

Processor	8th generation Intel Core i5/i7
Chipset	Integrated in the processor

Processor 8th generation Intel Core i5/i7

Chipset Integrated in the processor

Computer model

Table 3. Computer model

Computer model   Inspiron 15-7570

Dimensions and weight

Table 4. Dimensions and weight

	Non-touchscreen	Touchscreen
Weight (maximum)	2.16 kg (4.76 lb)	2.31 kg (5.09 lb)
Weight (minimum)	1.995 kg (4.40 lb)	2.15 kg (4.74 lb)
Height	18.81 mm (0.74 in)	• FHD: 18.81 mm (0.74 in) • UHD: 18.91 mm (0.74 in)
Width	361.36 mm (14.23 in)	
Depth	244.50 mm (9.63 in)	

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

Operating system

Table 5. Operating system

Operating systems supported

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

Memory

Table 6. Memory specifications

Slots	Two SODIMM slots
Type	DDR4
Speed	2400 MHz

Configurations supported

Per slot	4 GB, 8 GB, and 16 GB
Total memory	4 GB, 8 GB, 12 GB, 16 GB, and 32 GB

ⓘ **NOTE: Your computer is shipped with maximum 16 GB memory. Order additional memory separately to increase the total memory to 32 GB.**

Ports and connectors

Table 7. Ports and connectors

External:	
Network	One RJ-45 port
USB	• Two USB 3.1 Gen 1 port • One USB 3.1 Gen 1 port with PowerShare • One USB 3.1 Gen 1 (Type-C) port/DisplayPort
Audio/Video	• One HDMI port • One headset (headphone and microphone combo) port

Table 8. Ports and connectors

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

Communications

Table 9. Supported Communications

Ethernet	100/1000 Mbps Ethernet controller integrated on system board
Wireless	• WiFi 802.11a/b/g/n/ac • Bluetooth 4.2 ⓘ **NOTE: Windows 10 currently supports up to Bluetooth 4.1.**

Wireless

Table 10. Wireless

Transfer rate	Up to 867 Mbps
Frequency Bands	2.4 GHz/5 GHz
Encryption	• 64-bit/128-bit WEP • AES-CCMP • TKIP

Intel Optane memory

Intel Optane memory functions as a storage accelerator. It accelerates the system and any type of SATA-based storage media such as hard drives and solid-state drives (SSDs).

ⓘ **NOTE: Intel Optane memory is only supported on 8th generation and later Intel Core i3/i5/i7 processor platforms with Windows 10 64–bit and above installed.**

Table 11. Intel Optane memory

Interface	PCIex2
Connector	M.2
Configurations supported	16 GB and 32 GB

Audio

Table 12. Audio specifications

Controller	Realtek ALC3254-CG with Waves MaxxAudio Pro
Speakers	Two
Speaker output	2 W
Microphone	Digital-array microphones
Volume controls	Media-control shortcut keys

Storage

Table 13. Storage specifications

Interface	• SATA 6 Gbps • PCIe up to 16 Gbps
Hard drive	One 2.5-inch drive ⓘ **NOTE: Hard drive is available only on computers shipped with 3-cell battery.**
Solid-state drive (SSD)	One M.2 2280 drive
Capacity	
Hard drive	Up to 2 TB
SSD	• Up to 512 GB SATA drive • Up to 512 GB PCIex4 drive • Up to 32 GB Intel Optane Memory

Media-card reader

Table 14. Media-card reader specifications

Type	One SD-card slot
Card supported	SD card

Keyboard

Table 15. Keyboard specifications

Type	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. ⓘ **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.** Keyboard shortcuts

Camera

Table 16. Camera specifications

Resolution	**Camera** • Still image: 0.92 megapixel • Video: 1280 x 720 (HD) at 30 fps **Infrared camera (touchscreen)** 640 x 480 (VGA)
Diagonal viewing angle	**Camera** • Non-touchscreen: 74.6 degrees • Touchscreen: 88 degrees **Infrared camera (touchscreen)** 82.9 degrees

Touchpad

Table 17. Touchpad

Resolution	• Horizontal: 1228 • Vertical: 928
Dimensions	• Height: 80 mm (3.15 in) • Width: 105 mm (4.14 in)

Power adapter

Table 18. Power adapter specifications

Type	45W	65W
Input current (maximum)	1.30 A	1.50 A
Output current (continuous)	2.31 A	3.34 A
Input voltage	100 VAC–240 VAC	

Type	45W	65W
Input frequency	50 Hz–60 Hz	
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

> ⓘ **NOTE:** Hard drive is available only on computers shipped with 3-cell battery.

Table 19. Battery specifications

Type	3-cell "smart" lithium-ion (42 WHr)	4-cell "smart" lithium-ion (56 WHr)
Dimension:		
Width	97.15 mm (3.82 in)	98.20 mm (3.87 in)
Depth	184.15 mm (7.25 in)	233.37 mm (9.19 in)
Height	5.90 mm (0.23 in)	5.90 mm (0.23 in)
Weight (maximum)	0.2 kg (0.44 lb)	0.25 kg (0.55 lb)
Voltage	11.40 VDC	15.20 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

Table 20. Display specifications

Type	15.6-inch FHD touchscreen 15.6-inch FHD non-touchscreen	15.6-inch UHD touchscreen
Resolution (maximum)	1920 X 1080	3840 x 2160
Viewing angle (Left/Right/Up/Down)	80/80/80/80	80/80/80/80
Pixel pitch	0.17925 mm x 0.17925 mm	0.09 mm x 0.09 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 (13.60 in)
Diagonal (excluding bezel)	396.24 mm (15.6 in)	396.24 mm (15.6 in)
Refresh rate	60 Hz	
Operating angle	0 degrees (closed) to 180 degrees	
Controls	Brightness can be controlled using shortcut keys	

Video

Table 21. Video specifications

	Integrated	Discrete
Controller	Intel UHD Graphics 620	NVIDIA GeForce 940MX
Memory	Shared system memory	Up to 4 GB GDDR5

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 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

(i) **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
F1 ◁×	Mute audio
F2 ◁	Decrease volume
F3 ◁))	Increase volume
F4 ◁◁	Play previous track/chapter
F5 ▷II	Play/Pause
F6 ▷▷I	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 (i) **NOTE: Hard-drive activity light is supported only on computers shipped with a hard drive.**
Fn + R	System request
Fn + Ctrl	Open application menu

Keys	Description
Fn + **Esc** 🔒	Toggle Fn-key lock
Fn + **↑ PgUp**	Page up
Fn + **↓ PgDn**	Page down
Fn + **← Home**	Home
Fn + **End →**	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
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.	1. 1. Go to www.dell.com/support. 1. 2. At the top-right corner, enter **Knowledge Base** in the search box. Enter the subject keyword to retrieve the related articles.
Learn and know about the following information about your product: • Product specifications • Operating system • Setting up and using your product • Data backup • Troubleshooting and diagnostics • Operating system • Factory and system restore • BIOS information	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*. • Locate your product through the drop down menu under *View Products*. • Enter the **Service Tag number** or **Product ID** into 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.**