Inspiron 27 7000 All-in-One

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   Set up the stand.

Pedestal stand

Articulating stand

ⓘ **NOTE: If you have purchased an articulating stand with your computer, it is pre-installed from the factory.**

2   Set up the keyboard and mouse.

ⓘ **NOTE: See the documentation that shipped with the keyboard and mouse.**

3   Route the cable through the stand, then connect the power cable.

Pedestal stand

Articulating stand

4   Press the power button.

5   Finish operating system setup.

For Ubuntu:

Follow the on-screen instructions to complete the setup. For more information about configuring the Ubuntu install, see the knowledge base article SLN151664 at www.dell.com/support.

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.

6   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

Pro-actively checks the health of your computer's hardware and software. The SupportAssist OS Recovery tool troubleshoots issues with the operating system. For more information, see the SupportAssist documentation at www.dell.com/support.

(i) | **NOTE: In SupportAssist, click the warranty expiry date to renew or upgrade your warranty.**

Dell Update

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

Dell Digital Delivery

Download software applications, which are purchased but not pre-installed on your computer.

7   Create recovery drive for Windows.

(i) | **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

Front
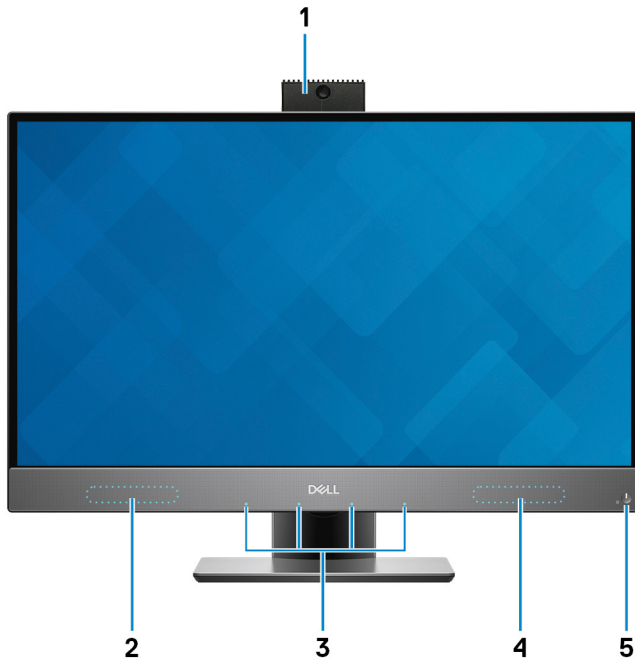
1 **Retractable-camera assembly**

   Enables you to video-chat, capture photos, and record videos. This camera assembly can be retracted to protect your privacy.

2 **Left speaker**

   Provides audio output.

3 **Microphones (4)**

   Provide digital sound input for audio recording, voice calls, and so on.

4 **Right speaker**

   Provides audio output.

5 **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.

   ⓘ **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.**

Retractable-camera assembly

ⓘ **NOTE: The retractable-camera assembly may vary depending on the configuration ordered.**
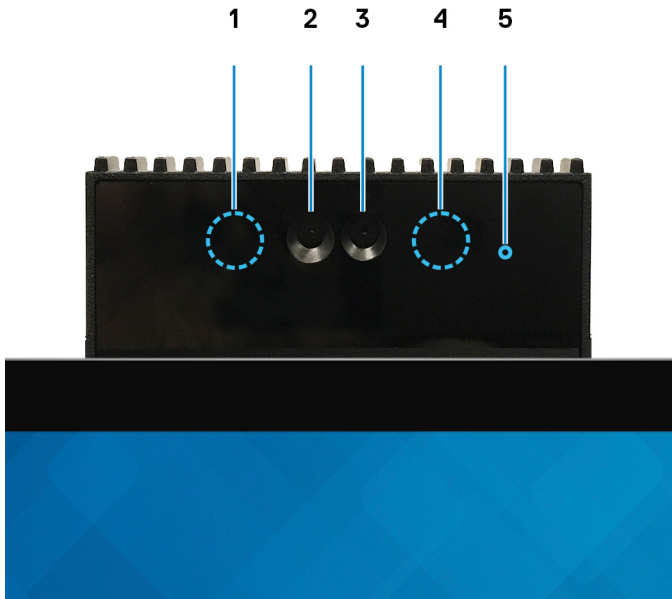
1   **Infrared emitter**

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

2   **Infrared camera**

    Enhances security when paired with Windows Hello face authentication.

3   **Camera**

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

4   **Infrared emitter**

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

5   **Camera-status light**

    Turns on when the camera is in use.

Left
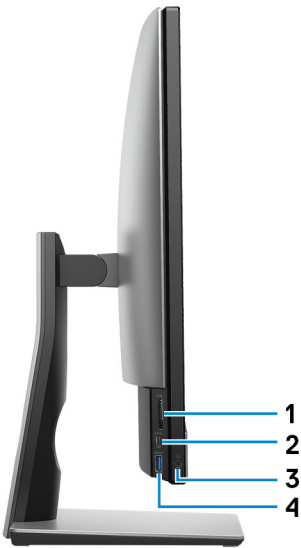
1 **SD-card slot**

Reads from and writes to the SD card.

2 **USB 3.1 Gen 1 (Type-C) port**

Connect to external storage devices. Provides data transfer speeds up to 5 Gbps.

ⓘ **NOTE: This port does not support video/audio streaming.**

3 **Headset port**

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

4 **USB 3.1 Gen 1 port with PowerShare**

Connect peripherals such as external 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: PowerShare functionality is disabled by default, 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.**

Right

1   **Hard-drive activity light**

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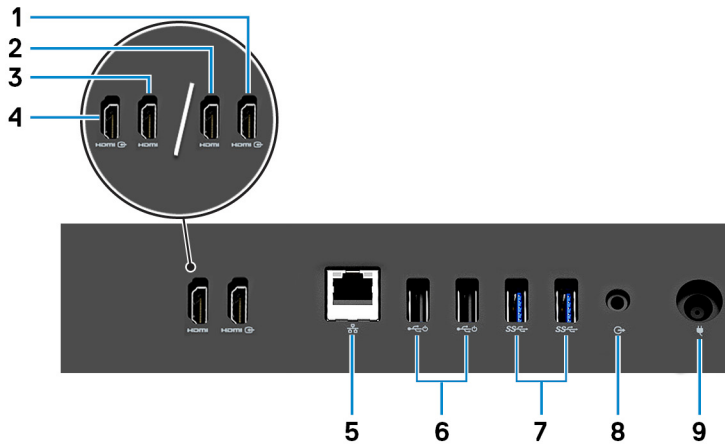
Back

1   **Back panel**

    Connect USB, audio, video, and other devices.

Back panel

1. **HDMI-in port (for computers shipped with discrete graphics)**

   Connect a gaming console, Blu-ray player, or other HDMI-out enabled devices.

2. **HDMI-out port (for computers shipped with discrete graphics)**

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

3. **HDMI-out port (for computers shipped with integrated graphics)**

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

4. **HDMI-in port (for computers shipped with integrated graphics)**

   Connect a gaming console, Blu-ray player, or other HDMI-out enabled devices.

5. **Network port**

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

6. **USB 2.0 ports with Power On/Wake-up support (2)**

   Connect peripherals such as external storage devices and printers. Provides data transfer speeds up to 480 Mbps. Wake the computer from standby with the keyboard or mouse connected to this port.

7. **USB 3.1 Gen 1 ports (2)**

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

8. **Audio-out port**

   Connect audio-output devices such as speakers, amplifiers, and so on.

9. **Power-adapter port**

   Connect a power adapter to provide power to your computer.

Bottom
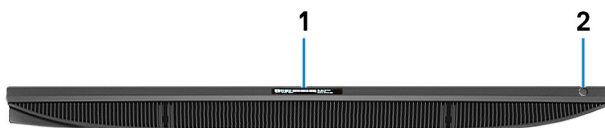
1. **Service Tag label**

   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.

2   **Display Built-in Self Test button/Input-source selection button**

Run the built-in self test for the display/Press to select the video-input source.

For more information, see the *Troubleshooting* section in the *Service Manual* at www.dell.com/support/manuals.

Tilt

Pedestal stand
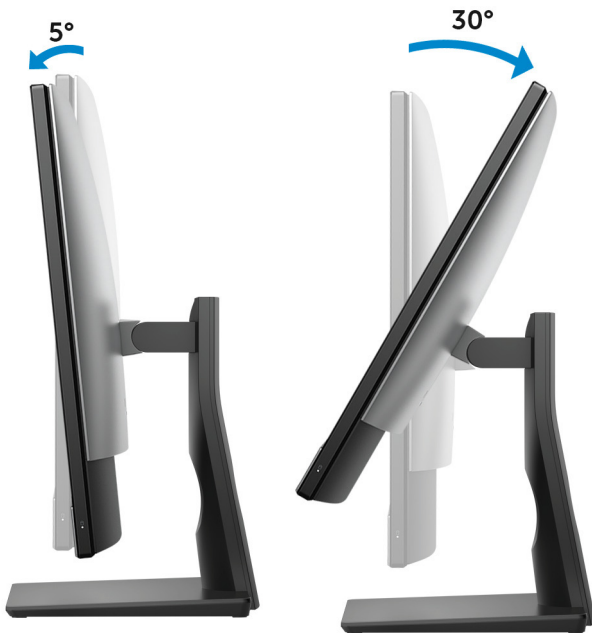
Articulating stand

Transform

Articulating stand

Accessing the retractable-camera assembly

ⓘ | **NOTE:** Extend the camera while using any camera function so that the camera is not blocked.

Specifications

Computer model

Inspiron 27-7777

System information

Table 2. System information

Processor	8th Generation Intel Core i3/i5/i7
Chipset	Intel H310

Dimensions and weight

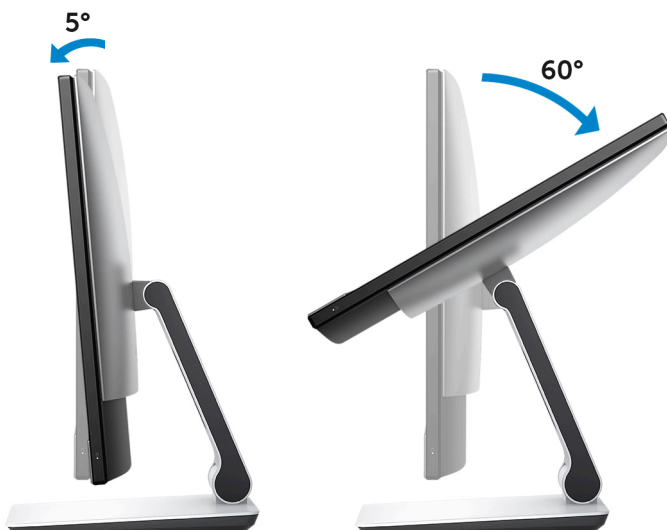**Table 3. Dimensions and weight**

Height	389 mm (15.31 in)
Width	614 mm (24.17 in)
Depth	58 mm (2.28 in)
Weight without stand (maximum)	• Touch: 8.28 kg (18.28 lb) • Non-touch: 8.07 kg (17.79 lb)
Weight without stand (minimum)	• Touch: 8.12 kg (17.90 lb) • Non-touch: 7.90 kg (17.42 lb)

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

Stand

Table 4. Stand specifications

Dimensions	Pedestal	Articulating
Height	320.10 mm (12.60 in)	330.20 mm (13 in)
Width	234 mm (9.21 in)	254.30 mm (10.01 in)
Depth	205.4 mm (8.09 in)	253.85 mm (9.99 in)

Operating system

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

Memory

Table 5. Memory specifications

Slots	Two SODIMM slots
Type	DDR4
Speed	Up to 2666 MHz
Configurations supported:	
Per memory module slot	4 GB, 8 GB, and 16 GB
Total memory	4 GB, 8 GB, 12 GB, 16 GB, 24 GB, and 32 GB

Ports and connectors

Table 6. Ports and connectors specifications

External:	
Left	
USB	• One USB 3.1 Gen 1 port with PowerShare • One USB 3.1 Gen 1 (Type-C) port
Audio	• One headset port
Back	
Network	One RJ45 port
USB	• Two USB 2.0 ports with Power on/Wake-up support • Two USB 3.1 Gen 1 ports
Audio/Video	• One HDMI-in 1.4 port (FHD display)/One HDMI-in 2.0 port (UHD display) • One HDMI-out 1.4 port (integrated graphics)/One HDMI-out 2.0 port (discrete graphics) • Audio-out port

Table 7. Ports and connectors specifications

Internal:	
M.2 card	• One M.2 slot for solid-state drive • One M.2 slot for Wireless and Bluetooth combo card

Communications

Table 8. Communication specifications

Ethernet	10/100/1000 Mbps Ethernet controller integrated on system board
Wireless	• Wi-Fi 802.11a/b/g/n/ac • Bluetooth 4.2

Wireless

Table 9. Wireless

Transfer rate	867 Mbps (maximum)
Frequency bands	2.4 GHz/5 GHz
Encryption	• 64-bit/128-bit WEP • AES-CCMP • TKIP

Audio

Table 10. Audio specifications

Controller	Realtek ALC3289-CG with Waves MaxxAudio Pro
Speakers	Two
Speaker output	• Average: 5 W • Peak: 6 W
Microphone	Digital-array microphones

Storage

Table 11. Storage specifications

Type	Interface	Capacity
One 2.5-inch Hard-Disk Drive (HDD)	SATA AHCI, Up to 6 Gbps	Up to 2 TB
One 2.5-inch Solid-State Hybrid Drive (SSHD)	SATA AHCI, Up to 6 Gbps	Up to 1 TB
One M.2 2280 Solid-State Drive (SSD)	• SATA AHCI, Up to 6 Gbps • PCIe 3 x4 NVME, Up to 32 Gbps	• Up to 512 GB • Up to 2 TB
One M.2 2230 Solid-State Drive (SSD)	PCIe 3x2 NVMe, up to 16 Gbps	Up to 512 GB

Intel Optane memory

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

(i) **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 12. Intel Optane memory

Interface	PCIe Gen 3 x2, NVMe
Connector	M.2
Configurations supported	16 GB

(i) **NOTE: For more information about enabling or disabling the Intel Optane memory, see** Enabling Intel Optane memory **or** Disabling Intel Optane memory.

Media-card reader

Table 13. Media-card reader specifications

Type	One 3-in-1 slot
Cards supported	- SD card - SD High Capacity (SDHC) - SD Extended Capacity (SDXC)

Camera

Table 14. Camera specifications

Resolution:	
Camera	- Still Image: 2 MP - Video: 1920 x 1080 at 30 FPS
Infrared camera	- Still Image: 0.3 MP - Video: 640 x 480 at 30 FPS
Diagonal viewing angle:	
Camera	88 degrees
Infrared camera	82.9 degrees

Power adapter

	130 W	180 W
Input current (maximum)	1.80 A	2.34 A
Output current (continuous)	6.70 A	9.23 A
Input Voltage	100 VAC to 240 VAC	100 VAC to 240 VAC
Input frequency	50 Hz to 60 Hz	50 Hz to 60 Hz
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)

Display

Table 16. Display specifications

	27-inch FHD non-touchscreen	27-inch FHD touchscreen	27-inch UHD non-touchscreen
Resolution (maximum)	1920 x 1080	1920 x 1080	3840 x 2160
Panel technology	IPS	IPS	IPS
Viewing angle (Left/Right/Up/Down)	89/89/89/89 degrees	89/89/89/89 degrees	89/89/89/89 degrees
Pixel pitch	0.3114	0.3114	0.1554
Refresh rate	60 Hz	60 Hz	60 Hz
Controls	Program menus	Program menus	Program menus
Dimensions:			
Height (excluding bezel)	597.89 mm (23.54 in)	597.89 mm (23.54 in)	596.74 mm (23.49 in)
Width (excluding bezel)	336.31 mm (13.24 in)	336.31 mm (13.24 in)	335.66 mm (13.21 in)
Diagonal (excluding bezel)	686.00 mm (27 in)	686.00 mm (27 in)	684.70 mm (27 in)

Video

Table 17. Video specifications

	Integrated	Discrete
Controller	Intel UHD Graphics 630	NVIDIA GTX GeForce 1050
Memory	Shared system memory	4 GB GDDR5

Computer environment

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

Table 18. Computer environment

	Operating	Storage
Temperature range	5°C to 35°C (41°F to 95°F)	−40°C to 65°C (−40°F to 149°F)
Relative humidity (maximum)	20% to 80% (non-condensing) ⓘ NOTE: Maximum dew point temperature = 26°C	5% to 95% (non-condensing) ⓘ NOTE: Maximum dew point temperature = 33°C
Vibration (maximum)*	0.26 GRMS	1.37 GRMS
Shock (maximum)	40 G†	105 G‡
Altitude (maximum)	3048 m (10,000 ft)	10,668 m (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.

6

Intel Optane memory

Enabling Intel Optane memory

1   On the taskbar, click the search box, and then type `Intel Rapid Storage Technology`.
2   Click **Intel Rapid Storage Technology**.
    The **Intel Rapid Storage Technology** window is displayed.
3   On the **Status** tab, click **Enable** to enable the Intel Optane memory.
4   On the warning screen, select a compatible fast drive, and then click **Yes** to continue enabling Intel Optane memory.
5   Click **Intel Optane memory** > **Reboot** to complete enabling your Intel Optane memory.

ⓘ **NOTE: Applications may take up to three subsequent launches after enablement to see the full performance benefits.**

Disabling Intel Optane memory

⚠ **CAUTION: Do not try to remove the Intel Rapid Storage Technology driver after disabling Intel Optane memory, it will result in a blue screen error. The Intel Rapid Storage Technology user interface can be removed without uninstalling the driver.**

ⓘ **NOTE: Disabling Intel Optane memory is required before removing the SATA storage device accelerated by the Intel Optane memory or the Intel Optane memory module from the system.**

1   On the taskbar, click the search box, and then type `Intel Rapid Storage Technology`.
2   Click **Intel Rapid Storage Technology**.
    The **Intel Rapid Storage Technology** window is displayed.
3   On the **Intel Optane memory** tab, click **Disable** to disable the Intel Optane memory.
4   Click **Yes** if you accept the warning.
    The disabling progress is displayed.
5   Click **Reboot** to complete disabling your Intel Optane memory and restart your computer.

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 19. Self-help resources

Information about Dell products and services	www.dell.com
Dell Help & Support app	
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 • 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** 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.**