

Inspiron 22 3000 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.

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Set up your computer

1. Set up the [easel stand](#) or [pedestal stand](#).
2. Connect the keyboard and mouse.

NOTE: For setup instructions, see the documentation shipped with the keyboard and mouse.

3. Connect the power adapter.

WARNING: Route the power-adaptor cable through the routing guide on the stand to avoid potential damage to the power adapter and to avoid the unexpected system power-off when the stand is moved to a different orientation.

Easel stand



Pedestal 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](https://www.dell.com/support) 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.

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



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.

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](#).

Topics:

- [Set up the easel stand](#)
- [Set up the pedestal stand](#)

Set up the easel stand

Lift the easel stand.



Set up the pedestal stand

1. Lift the stand riser.



2. Attach the base.



3. Tighten the captive screw to secure the base to the stand riser.



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.

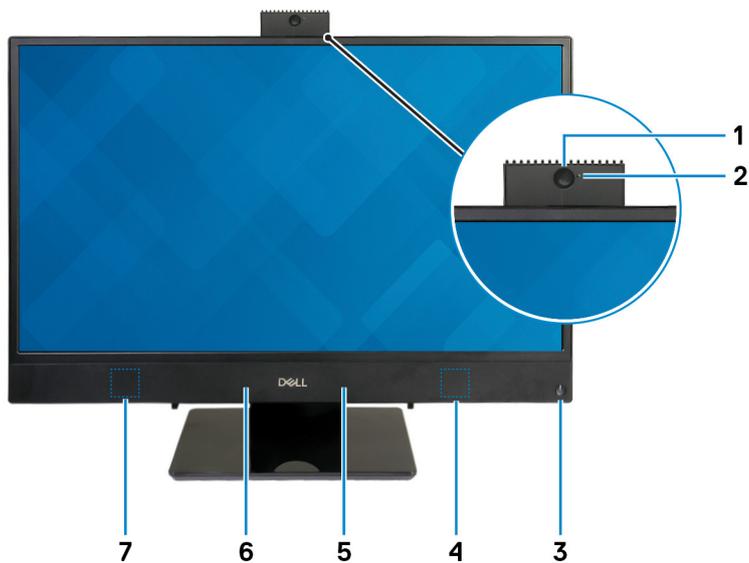
i **NOTE:** This process may take up to an hour to complete.

i **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.

Front



1. Retractable camera

Enables you to videochat, capture photos, and record videos. This camera can be retracted to protect your privacy.

2. Camera-status light

Turns on when the camera is in use.

3. 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.

4. Right speaker

Provides audio output.

5. Right microphone

Provides digital sound input for audio recording and voice calls.

6. Left microphone

Provides digital sound input for audio recording and voice calls.

7. Left speaker

Provides audio output.

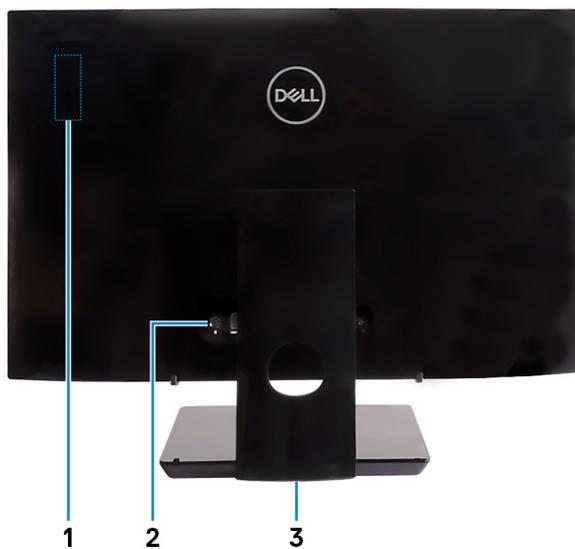
Left



1. SD-card slot

Reads from and writes to the SD card.

Back



1. Radio regulatory label

Contains the regulatory information of the wireless components for your computer.

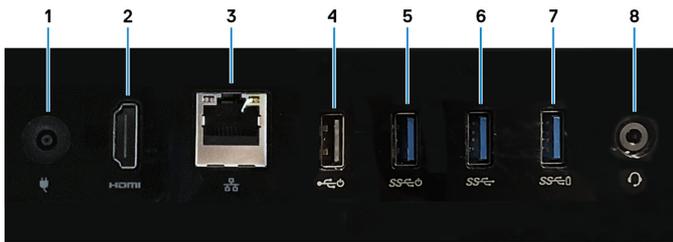
2. Back panel

Connect power, USB, audio, and other devices.

3. Regulatory label

Contains regulatory information of your computer.

Back panel



1. Power-adaptor port

Connect a power adapter to provide power to your computer.

2. HDMI-out port

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

3. Network port

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

4. USB 2.0 port with Power on/Wake-up support

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

5. USB 3.1 Gen 1 port with Power on/Wake-up support

Connect peripherals such as external storage devices and printers. Provides data transfer speeds up to 5 Gbps. Wake the computer from standby with the keyboard or mouse connected to this port.

6. USB 3.1 Gen 1 port

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

7. 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: 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.

8. Headset port

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

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

Run the built-in self test for the display

For more information, see the Troubleshooting section in the service manual at www.dell.com/support/manuals.

Tilt

Easel stand



Pedestal stand





Retractable camera



NOTE: Press and release the camera bezel on top of the display to access the camera. Press down on the camera bezel until it is locked into the retracted position.

Specifications

System information

Table 2. System information

Processor	<ul style="list-style-type: none"> 7th Generation Intel Core i3/i5/i7 Intel Pentium Dual Core
System chipset	Integrated in processor

Computer model

Inspiron 3277 AIO

Dimensions and weight

Table 3. Dimensions and weight

Height	329.40 mm (12.97 in)
Width	497.90 mm (19.60 in)
Depth	41.5 mm (1.63 in)
Weight without stand (maximum)	<ul style="list-style-type: none"> Touch: 5.15 kg (11.35 lb) Non-touch: 4.73 kg (10.43 lb)
Weight without stand (minimum)	<ul style="list-style-type: none"> Touch: 4.67 kg (10.30 lb) Non-touch: 4.27 kg (9.41 lb)

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

Operating system

Table 4. Operating system

Operating systems supported	<ul style="list-style-type: none"> Ubuntu Windows 10 Home 64-bit Windows 10 Professional 64-bit
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Memory

Table 5. Memory specifications

Slots	Two SODIMM slots
Type	DDR4

Speed	2133 MHz
Configurations supported:	
Per slot	2 GB, 4 GB, 8 GB, and 16 GB
Total memory	4 GB, 6 GB, 8 GB, 12 GB, and 16 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).

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 15.5.xxxx or higher

Table 6. Intel Optane memory

Interface	PCIe NVMe 3.0 x2
Connector	M.2 2280
Capacity	16 GB

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

Ports and connectors

Table 7. Ports and connectors specifications

External:

Network	One RJ45 port
USB	<ul style="list-style-type: none"> • One USB 3.1 Gen 1 port with Power on/Wake-up support • One USB 3.1 Gen 1 port with PowerShare • One USB 2.0 port with Power on/Wake-up support • One USB 3.1 Gen 1 port
Audio/Video	<ul style="list-style-type: none"> • One headset port • One HDMI v1.4 port

Table 8. Ports and connectors specifications

Internal:

M.2 card	<ul style="list-style-type: none"> • One M.2 slot for SSD card (SATA) (for 7th Generation Intel Core processors) • One M.2 slot for Wireless and Bluetooth combo card
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Communications

Table 9. Communication specifications

Ethernet	10/100/1000 Mbps Ethernet controller integrated on system board
Wireless	<ul style="list-style-type: none"> • Wi-Fi 802.11a/b/g/n/ac • Bluetooth 4.1

Wireless

Table 10. Wireless

Transfer rate	433 Mbps
Frequency bands	2.4 GHz/5 GHz
Encryption	<ul style="list-style-type: none">• 64-bit/128-bit WEP• AES-CCMP• TKIP

Audio

Table 11. Audio specifications

Controller	Realtek ALC3246
Speakers	Two
Speaker output	<ul style="list-style-type: none">• Average: 3 W• Peak: 3.5 W
Microphone	Digital-array microphones

Storage

Table 12. Storage specifications

Interface	<ul style="list-style-type: none">• SATA 6 Gbps for hard drive• PCIe up to 16 Gbps for M.2 card
Hard drive	One 2.5-inch drive (SATA)
Solid-state drive	One M.2 drive (SATA/PCIe)
Capacity supported:	
Hard drive	Up to 2 TB
Solid-state drive	<ul style="list-style-type: none">• PCIe NVMe: Up to 1 TB• SATA: Up to 256 GB

Media-card reader

Table 13. Media-card reader specifications

Type	One SD-card slot
Cards supported	SD card

Camera

Table 14. Camera specifications

Resolution	<ul style="list-style-type: none">• Still image: 1280 x 720 (HD); 0.92 megapixels• Video: 1280 x 720 (HD) at 30 fps (maximum)
Diagonal viewing angle	74.6 degrees

Power adapter

Table 15. Power adapter specifications

	65 W	90 W
Input current (maximum)	1.70 A	1.50 A
Output current (continuous)	3.34 A	4.62 A
Input Voltage	100 VAC to 240 VAC	
Input frequency	50 Hz to 60 Hz	
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)	

Display

Table 16. Display specifications

	21.5-inch FHD
Resolution (maximum)	1920 x 1080
Pixel pitch	0.2475 mm
Dimensions:	
Height	267.79 mm (10.54 in)
Width	476.06 mm (18.74 in)
Diagonal	546.10 mm (21.5 in)
Refresh rate	60 Hz
Controls	Program menus

Video

Table 17. Video specifications

	Integrated	Discrete
Controller	<ul style="list-style-type: none"> • Intel HD Graphics 610 • Intel HD Graphics 620 	NVIDIA GeForce MX110
Memory	Shared system memory	2 GB GDDR5

Computer environment

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

Table 18. Computer environment

	Operating	Storage
Temperature range	10°C to 35°C (50°F to 95°F)	-40°C to 65°C (-40°F to 149°F)
Relative humidity (maximum)	20% to 80% (non-condensing)	5% to 95% (non-condensing)
	i NOTE: Maximum dew point temperature = 26°C	i NOTE: Maximum dew point temperature = 33°C
Vibration (maximum)*	0.24 GRMS	1.37 GRMS
Shock (maximum)	40 G†	105 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.

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: After disabling Intel Optane memory, do not uninstall the driver for Intel Rapid Storage Technology as 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 module from the computer.

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.

NOTE: For computers in which Intel Optane memory acts as a primary storage, do not disable the Intel Optane memory. The **Disable** option will be grayed out.

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



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.

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:

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

- 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.**