Inspiron 24 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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6 Getting help and contacting Dell................................................................................................... 20
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-adapter 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 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**

<table>
<thead>
<tr>
<th>Dell Product Registration</th>
<th>Register your computer with Dell.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dell Help &amp; Support</td>
<td>Access help and support for your computer.</td>
</tr>
<tr>
<td><strong>SupportAssist</strong></td>
<td>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 <a href="http://www.dell.com/support">www.dell.com/support</a>.</td>
</tr>
<tr>
<td><strong>NOTE:</strong> Renew or upgrade your warranty by clicking the warranty expiry date in SupportAssist.</td>
<td></td>
</tr>
<tr>
<td>Dell Update</td>
<td>Updates your computer with critical fixes and latest device drivers as they become available.</td>
</tr>
<tr>
<td>Dell Digital Delivery</td>
<td>Download software applications, which are purchased but not pre-installed on your computer.</td>
</tr>
</tbody>
</table>

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.

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.

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.
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](http://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.
1. **Power-adapter port**
   
   Connect a power adapter to provide power to your computer.

2. **HDMI-out port**
   
   Connect 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 the computer 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

14° - 40°

Pedestal stand

5°
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.
Computer model
Inspiron 24-3477.

System information
Table 2. System information
Processor
- 7th Generation Intel Core i3/i5/i7
- Intel Pentium Dual Core
System chipset
Integrated in processor

Dimensions and weight
Table 3. Dimensions and weight
Height
358 mm (14.49 in)
Width
548.80 mm (21.61 in)
Depth
41.5 mm (1.63 in)
Weight without stand (maximum)
- Touch: 5.85 kg (12.89 lb)
- Non-touch: 5.35 kg (11.79 lb)
Weight without stand (minimum)
- Touch: 5.12 kg (11.29 lb)
- Non-touch: 4.62 kg (10.19 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
- Ubuntu
- Windows 10 Home 64-bit
- Windows 10 Professional 64-bit

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

## Ports and connectors

**Table 6. Ports and connectors specifications**

**External:**
- Network: One RJ45 port
- USB:
  - 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:
  - One headset port
  - One HDMI v1.4 port

**Table 7. Ports and connectors specifications**

**Internal:**
- M.2 card:
  - One M.2 slot for SSD card (SATA) (for 7th Generation Intel Core processors)
  - 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 4.1

## Wireless

**Table 9. Wireless**

- Transfer rate: 433 Mbps
- Frequency bands: 2.4 GHz/5 GHz
- Encryption:
  - 64-bit/128-bit WEP
  - AES-CCMP
  - TKIP

## Audio

**Table 10. Audio specifications**

- Controller: Realtek ALC3246
- Speakers: Two
Speaker output
- Average: 3 W
- Peak: 3.5 W

Microphone
Digital-array microphones

Storage

Table 11. Storage specifications

Interface
- 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
  - PCIe NVMe: Up to 1 TB
  - SATA: Up to 256 GB

Media-card reader

Table 12. Media-card reader specifications

Type
One SD-card slot

Cards supported
SD card

Camera

Table 13. Camera specifications

Resolution
- 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 14. Power adapter specifications

<table>
<thead>
<tr>
<th></th>
<th>65 W</th>
<th>90 W</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input current</td>
<td>1.70 A</td>
<td>1.50 A</td>
</tr>
<tr>
<td>(maximum)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Output current</td>
<td>3.34 A</td>
<td>4.62 A</td>
</tr>
<tr>
<td>(continuous)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Input Voltage</td>
<td></td>
<td>100 VAC to 240 VAC</td>
</tr>
<tr>
<td>Input frequency</td>
<td></td>
<td>50 Hz to 60 Hz</td>
</tr>
<tr>
<td>Rated output voltage</td>
<td></td>
<td>19.50 VDC</td>
</tr>
<tr>
<td>Temperature range:</td>
<td></td>
<td>0°C to 40°C (32°F to 104°F)</td>
</tr>
</tbody>
</table>
Table 15. Display specifications

<table>
<thead>
<tr>
<th></th>
<th>23.8-inch FHD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resolution (maximum)</td>
<td>1920 x 1080</td>
</tr>
<tr>
<td>Pixel pitch</td>
<td>0.2475 mm</td>
</tr>
<tr>
<td>Dimensions:</td>
<td></td>
</tr>
<tr>
<td>Height</td>
<td>296.46 mm (11.67 in)</td>
</tr>
<tr>
<td>Width</td>
<td>527.04 mm (20.74 in)</td>
</tr>
<tr>
<td>Diagonal</td>
<td>604.70 mm (23.8 in)</td>
</tr>
<tr>
<td>Refresh rate</td>
<td>60 Hz</td>
</tr>
<tr>
<td>Controls</td>
<td>Program menus</td>
</tr>
</tbody>
</table>

Table 16. Video specifications

<table>
<thead>
<tr>
<th></th>
<th>Integrated</th>
<th>Discrete</th>
</tr>
</thead>
<tbody>
<tr>
<td>Controller</td>
<td>Intel HD Graphics 610</td>
<td>NVIDIA GeForce MX110</td>
</tr>
<tr>
<td></td>
<td>Intel HD Graphics 620</td>
<td></td>
</tr>
<tr>
<td>Memory</td>
<td>Shared system memory</td>
<td>2 GB GDDR5</td>
</tr>
</tbody>
</table>

Table 17. Computer environment

**Airborne contaminant level:** G1 as defined by ISA-S7.04-1985

<table>
<thead>
<tr>
<th></th>
<th>Operating</th>
<th>Storage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature range</td>
<td>10°C to 35°C (50°F to 95°F)</td>
<td>–40°C to 65°C (–40°F to 149°F)</td>
</tr>
<tr>
<td>Relative humidity</td>
<td>20% to 80% (non-condensing)</td>
<td>5% to 95% (non-condensing)</td>
</tr>
<tr>
<td>Vibration (maximum)*</td>
<td>0.24 GRMS</td>
<td>1.37 GRMS</td>
</tr>
<tr>
<td>Shock (maximum)</td>
<td>40 G†</td>
<td>105 G‡</td>
</tr>
<tr>
<td>Altitude (maximum)</td>
<td>–15.2 m to 3048 m (-50 ft to 10,000 ft)</td>
<td>–15.2 m to 10,668 m (-50 ft to 35,000 ft)</td>
</tr>
</tbody>
</table>

**NOTE:** Maximum dew point temperature = 26°C

**NOTE:** Maximum dew point temperature = 33°C
* 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.
Self-help resources

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

**Table 18. Self-help resources**

| Information about Dell products and services | www.dell.com |
| Dell Help & Support app | ![Dell Help & Support app icon] |
| Tips | ![Tips icon] |
| 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. | |

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.