Inspiron 27-7700

Setup and Specifications

Notes, cautions, and warnings

(i) **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.**
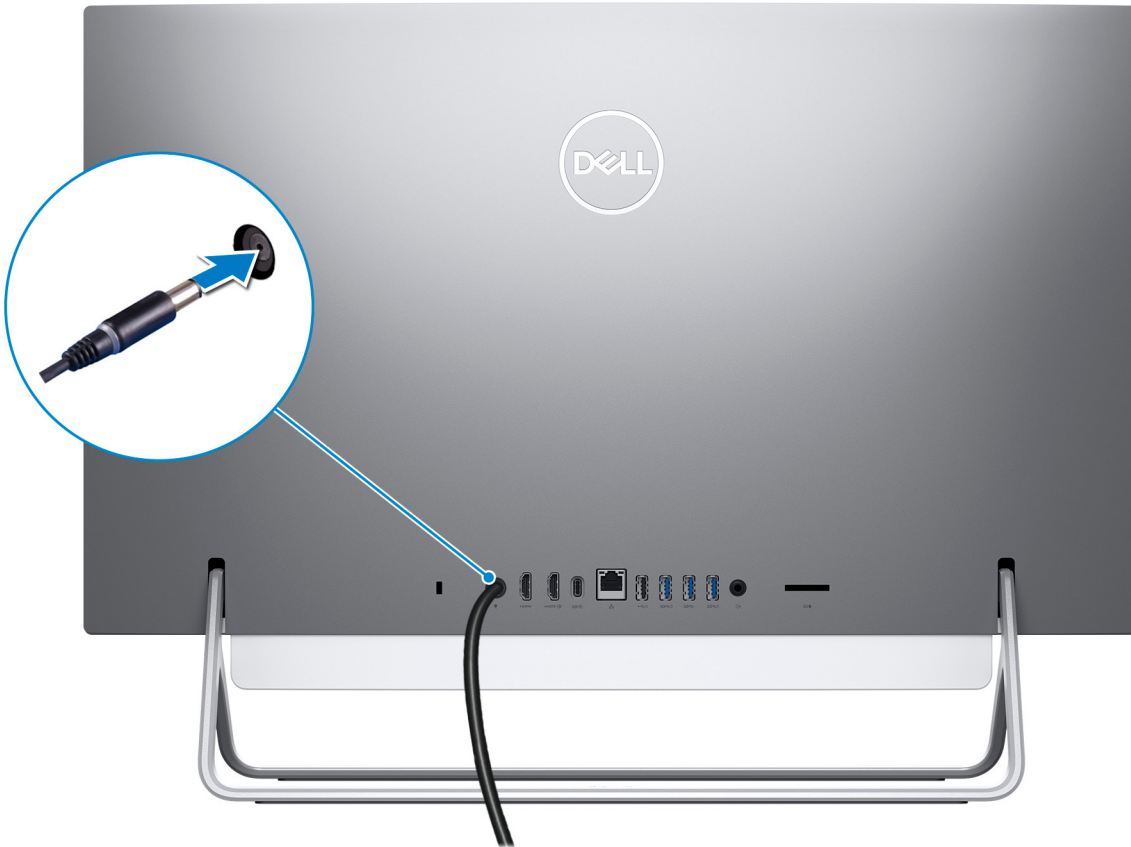
Contents

Set up your computer

1. Set up the keyboard and mouse.

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

2. Connect the power cable.

3. Press the power button.

4. Finish Windows setup.

   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.

5. Locate and use Dell apps from the Windows Start menu—Recommended

Table 1. Locate Dell apps

Resources	Description
	My Dell Centralized location for key Dell applications, help articles, and other important information about your computer. It also notifies you about the warranty status, recommended accessories, and software updates if available.
	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.

Table 1. Locate Dell apps (continued)

Resources	Description
	(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. For more information about using Dell Update, see the knowledge base article SLN305843 at www.dell.com/support.
	Dell Digital Delivery Download software applications, which are purchased but not pre-installed on your computer. For more information about using Dell Digital Delivery, see the knowledge base article 153764 at www.dell.com/support.

Views of Inspiron 27-7700

Front

1. **Retractable-camera assembly**

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

2. **Left speaker**

   Provides audio output.

3. **Digital-array microphones (2)**

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

4. **Right speaker**

   Provides audio output.

Retractable camera

Retractable camera for computers shipped with IR camera
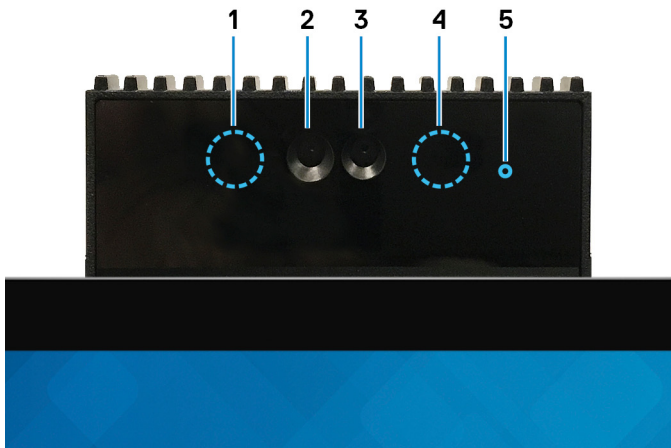
1. **Infrared emitter**

   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.

Retractable camera for computers shipped with HD camera
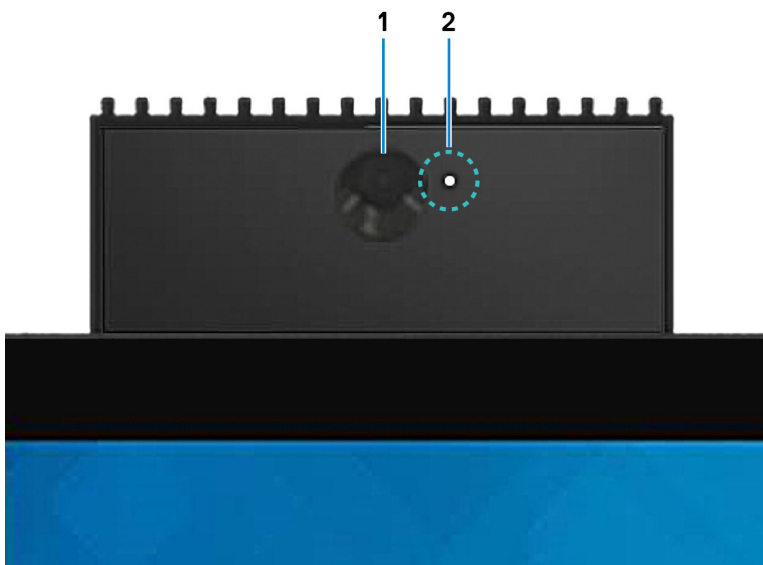
1. **Camera**

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

2. **Camera-status light**

   Turns on when the camera is in use.

Back

1

1. **Back panel**

   Connect USB, audio, video, and other devices.

For more information on the rear ports, see Back panel.

Back panel

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

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

2. **Power-adapter port**

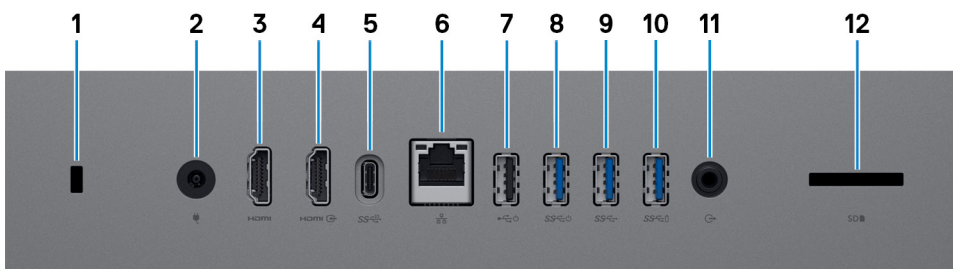   Connect a power adapter to provide power to your computer.

3. **HDMI port**

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

4. **HDMI-in port**

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

5. **USB 3.1 Gen 2 Type-C port**

   Connect peripherals such as external storage devices and printers.

   Provides data transfer speeds up to 10 Gbps. PowerShare enables you to charge connected USB devices.

   (i) **NOTE:** Connected USB devices will not charge when the computer is turned off. Please set BIOS Deep Sleep control to disabled to start charging when the computer is powered off.

6. **Network port**

   Connect an Ethernet (RJ45) cable from a router or a broadband modem for network or Internet access, with a transfer rate of 10/100/1000 Mbps.

7. **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.

   (i) **NOTE:** Please set BIOS Deep Sleep control to disabled to enable Wake up when the computer is powered off.

8. **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.

   (i) **NOTE:** Please set BIOS Deep Sleep control to disabled to enable Wake up when the computer is powered off.

9. **USB 3.1 Gen 1 port**

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

10. **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 connected USB devices.

    (i) **NOTE:** Connected USB devices will not charge when the computer is turned off. Please set BIOS Deep Sleep control to disabled to start charging when the computer is powered off.

11. **Audio-out port**

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

12. **SD-card slot**

    Reads from and writes to the SD card, supporting the following cards:

    ● SD card
    ● SD High Capacity (SDHC) card
    ● SD Extended Capacity (SDXC) card
    ● micro Secure Digital (mSD)
    ● micro Secure Digital High Capacity (mSDHC)
    ● micro Secure Digital Extended Capacity (mSDXC)

Bottom

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 10 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.

2. **Display Built-in Self Test button**

   Press to test the display.

3. **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.

Tilt

Bipod stand

25°

Arch stand

25°

A-Frame stand

25°

Retractable camera

Push the top of camera to extend or retract the camera. Extend the camera before use and retract the camera to protect your privacy when not in use.

Specifications of Inspiron 27-7700

Stand

Table 2. Stand

Description	Bipod stand	Arch stand	A-Frame stand
Height	132.20 mm (5.20 in.)	127.71 mm (5.02 in.)	135 mm (5.31 in.)
Width	477 mm (18.77 in.)	462 mm (18.18 in.)	531.8 mm (20.93 in.)
Depth	193.4 mm (7.61 in.)	182 mm (7.16 in.)	202.3 mm (7.96 in.)
Weight	0.38 kg (0.84 lb)	0.59 kg (1.30 lb)	0.62 kg (1.36 lb)

Bipod stand

Table 3. Bipod stand dimensions

Description	Dimensions
❶	453.20 mm (17.84 in.)
❷	193.40 mm (7.61 in.)
❸	432.35 mm (17.02 in.)
❹	232.64 mm (9.15 in.)
❺	611.70 mm (24.08 in.)

Arch stand
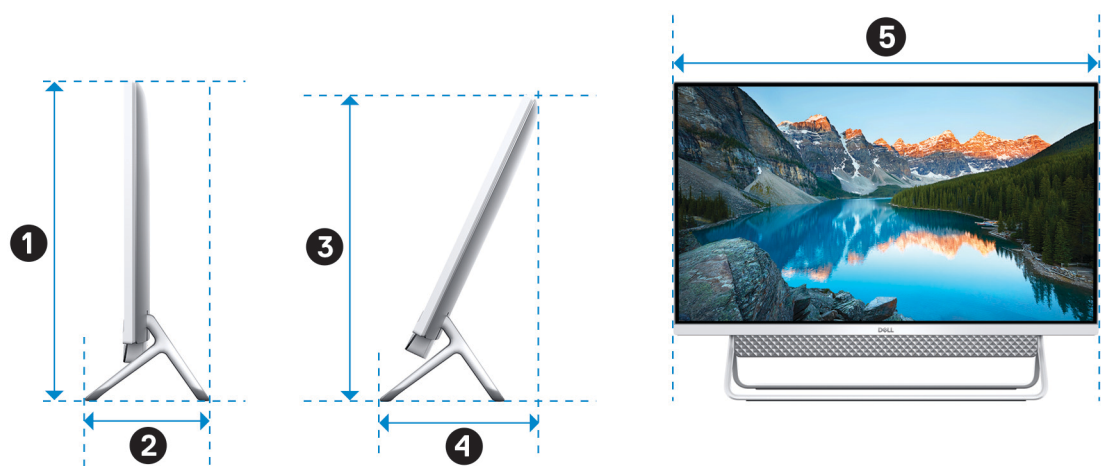
Table 4. Arch stand

Description	Dimensions
❶	453.20 mm (17.84 in.)
❷	182 mm (7.16 in.)
❸	432.35 mm (17.02 in.)
❹	233.40 mm (9.18 in.)
❺	611.70 mm (24.08 in.)

A-Frame stand
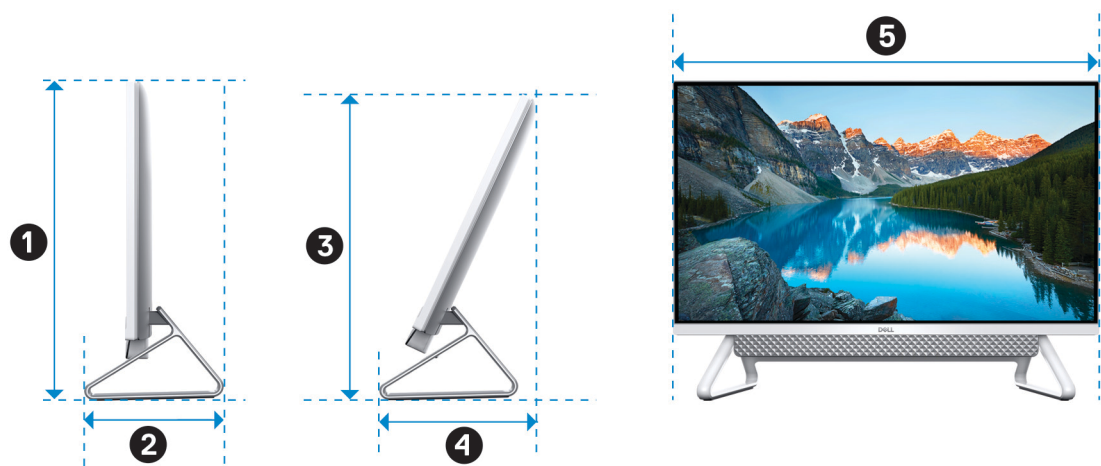
Table 5. A-Frame stand dimensions

Description	Dimensions
❶	453.20 mm (17.84 in.)

Table 5. A-Frame stand dimensions (continued)

Description	Dimensions
❷	202.3 mm (7.96 in.)
❸	432.35 mm (17.02 in.)
❹	234.95 mm (9.25 in.)
❺	611.70 mm (24.08 in.)

Dimensions and weight

Table 6. Computer dimensions and weight

Description		Values
Height		395.40 mm (15.56 in.)
		ⓘ **NOTE:** The height of your computer varies depending on the stand installed.
Width		611.70 mm (24.08 in.) with Bipod stand, A-Frame stand and Arch stand
		ⓘ **NOTE:** The width of your computer varies depending on the stand installed.
Depth		42 mm (1.65 in.)
Weight:		
	Touchscreen	7.16 kg (15.78 lb)
	Non-touchscreen	6.73 kg (14.83 lb)
		ⓘ **NOTE:** The weight of your computer varies depending on the configuration ordered and the manufacturing variability.

Processor

The following table lists the details of the processors supported by your Inspiron 27-7700.

Table 7. Processor

Description	Option one	Option two	Option three
Processor type	11th Generation Intel Core i3 (1115G4)	11th Generation Intel Core i5 (1135G7)	11th Generation Intel Core i7 (1165G7)
Processor wattage	28 W	28 W	28 W
Processor core count	2	4	4
Processor thread count	4	8	8
Processor speed	Up to 4.1 GHz	Up to 4.2 GHz	Up to 4.7 GHz

Table 7. Processor (continued)

Description	Option one	Option two	Option three
Processor cache	6 MB	8 MB	12 MB
Integrated graphics	Intel UHD Graphics	Intel Iris Xe Graphics	Intel Iris Xe Graphics

Chipset

The following table lists the details of the chipset supported by your Inspiron 27-7700.

Table 8. Chipset

Description	Values
Chipset	Integrated in the processor
Processor	11th Generation Intel Core i3/i5/i7
DRAM bus width	64 bit
Flash EPROM	16 MB
PCIe bus	PCIe 3.0

Operating system

Your Inspiron 27-7700 supports the following operating systems:

- Windows 10 Home (64-bit)
- Windows 10 Professional (64-bit)

Memory

The following table lists the memory specifications of your Inspiron 27-7700.

Table 9. Memory specifications

Description	Values
Memory slots	Two SODIMM slots
Memory type	Dual-channel DDR4
Memory speed	2666 MHz
Maximum memory configuration	32 GB
Minimum memory configuration	4 GB
Memory size per slot	4 GB, 8 GB, 12 GB, and 16 GB
Memory configurations supported	4 GB, 1 x 4 GB, DDR4, 2666 MHz 8 GB, 1 x 8 GB, DDR4, 2666 MHz 8 GB, 2 x 4 GB, DDR4, 2666 MHz 12 GB, 1 x 8 GB + 1 x 4 GB, DDR4, 2666 MHz

Table 9. Memory specifications (continued)

Description	Values
	• 16 GB, 1 x 16 GB, DDR4, 2666 MHz • 16 GB, 2 x 8 GB, DDR4, 2666 MHz • 32 GB, 1 x 32 GB, DDR4, 2666 MHz • 32 GB, 2 x 16 GB, DDR4, 2666 MHz

Ports and connectors

The following table lists the external and internal ports available on your Inspiron 27-7700.

Table 10. Ports and connectors

Description	Values
External:	
Network	One RJ-45 port
USB	• Two USB 2.0 port with Power on/Wake-up support • One USB 3.1 Gen 1 port • One USB 3.1 port with Power on/Wake-up support • One USB 3.1 Gen 1 port with PowerShare • One USB 3.1 Gen 2 (Type-C) port
Audio	Audio-out port
Video	• One HDMI 1.4b port • One HDMI-in port
Media-card reader	One SD-card slot
Power port	One 4.5 mm x 2.9 mm DC-in adapter port
Security	Kensington slot
Internal:	
PCIe expansion card slots	Not supported
M.2	• One M.2 slot for Wi-Fi and Bluetooth combo card • One PCIe M.2 2230 slot for solid-state drive ⓘ **NOTE:** To learn more about the features of different types of M.2 cards, see the knowledge base article SLN301626.

Ethernet

The following table lists the wired Ethernet Local Area Network (LAN) specifications of your Inspiron 27-7700.

Table 11. Ethernet specifications

Description	Values
Model number	Realtek RTL8111HSD-CG PCIe Gigabit Ethernet controller (integrated on system board)

Table 11. Ethernet specifications (continued)

Description	Values
Transfer rate	10/100/1000 Mbps

Wireless module

The following table lists the Wireless Local Area Network (WLAN) modules supported on your Inspiron 27-7700.

Table 12. Wireless module specifications

Description	Option one	Option two
Model number	Intel 9462	Intel AX201
Transfer rate	Up to 433 Mbps	Up to 2400 Mbps
Frequency bands supported	Dual band 2.4 GHz/5 GHz	Dual band 2.4 GHz/5 GHz
Wireless standards	- Wi-Fi 802.11a/b/g - Wi-Fi 4 (WiFi 802.11n) - Wi-Fi 5 (WiFi 802.11ac)	- WiFi 802.11a/b/g - Wi-Fi 4 (WiFi 802.11n) - Wi-Fi 6 (WiFi 802.11ax)
Encryption	64-bit/128-bit WEP - AES-CCMP - TKIP	64-bit/128-bit WEP - AES-CCMP - TKIP
Bluetooth	Bluetooth 5.0	Bluetooth 5.1

Audio

The following table lists the audio specifications of your Inspiron 27-7700.

Table 13. Audio specifications

Description		Values
Audio controller		Realtek ALC3289-CG
Stereo conversion		Supported
Internal audio interface		High definition audio interface
External audio interface		Universal Audio Jack/HDMI 1.4 port
Number of speakers		2
Internal-speaker amplifier		Supported
External volume controls		Not supported
Speaker output:		
	Average speaker output	5 W
	Peak speaker output	6 W
Subwoofer output		Not supported

Table 13. Audio specifications (continued)

Description	Values
Microphone	Digital-array microphones

Storage

This section lists the storage options on your Inspiron 27-7700.

Your computer supports one of the following configurations:

- One 2.5-inch hard-disk drive
- One M.2 2230 solid-state drive
- One 2.5-inch hard drive and one M.2 2230 solid-state drive

Table 14. Storage specifications

Storage type	Interface type	Capacity
One 2.5-inch hard-disk drive	SATA AHCI 6 Gbps	Up to 2 TB
One M.2 2230 solid-state drive	PCIe Gen3.0x4 NVMe, up to 32 Gbps	Up to 1 TB

Media-card reader

The following table lists the media cards supported by your Inspiron 27-7700.

Table 15. Media-card reader specifications

Description	Values
Media-card type	One SD-card slot
Media-cards supported	- SD card - SD High Capacity (SDHC) card - SD Extended Capacity (SDXC) card - micro Secure Digital (mSD) - micro Secure Digital High Capacity (mSDHC) - micro Secure Digital Extended Capacity (mSDXC)
(i) **NOTE:** The maximum capacity supported by the media-card reader varies depending on the standard of the media card installed in your computer.	

Camera

The following table lists the camera specifications of your Inspiron 27-7700.

Table 16. Camera specifications

Description	Values
Number of cameras	One
Camera type	- FHD RGB camera - FHD RGB + infrared camera
Camera location	Front camera

Table 16. Camera specifications (continued)

Description		Values
Camera sensor type		CMOS sensor technology
Camera resolution:		
	Still image	• 2.07 megapixels (FHD camera) • 0.30 megapixels (HD camera)
	Video	• 1920 x 1080 (FHD) at 30 fps (FHD camera) • 640 x 480 at 30 fps (HD camera)
Infrared camera resolution:		
	Still image	0.3 megapixel
	Video	640 x 480 (VGA) at 30 fps
Diagonal viewing angle:		
	Camera	• 77.4 degrees (FHD RGB camera) • 77.5 degrees (FHD RGB + infrared camera)
	Infrared camera	• 77.4 degrees (FHD RGB camera) • 82.9 degrees (FHD RGB + infrared camera)

Display

The following table lists the display specifications of your Inspiron 27-7700.

Table 17. Display specifications

Description		Values
Display type		Full High Definition (FHD)
Display-panel technology		Wide Viewing Angle (WVA)
Display-panel dimensions (active area):		
	Height	336.31 mm (13.24 in.)
	Width	597.89 mm (23.53 in.)
	Diagonal	686 mm (27 in.)
Display-panel native resolution		1920 x 1080
Luminance (typical)		250 nits
Megapixels		2.07
Color gamut		72% (NTSC)
Pixels Per Inch (PPI)		81
Contrast ratio (min)		600:1
Response time (max)		25 msec rise/fall

Table 17. Display specifications (continued)

Description	Values
Refresh rate	60 Hz
Horizontal view angle	+/- 85 degrees
Vertical view angle	+/- 85 degrees
Pixel pitch	0.3114 x 0.3114 mm
Power consumption (maximum)	18.80 W
Anti-glare vs glossy finish	Anti-glare (non-Touch) / Truelife (Touch)
Touch options	Yes

Power adapter

The following table lists the power adapter specifications of your Inspiron 27-7700.

Table 18. Power adapter specifications

Description		Option one	Option two
Type		90 W	130 W
Connector dimensions:			
	External diameter	4.5 mm	4.5 mm
	Internal diameter	2.9 mm	2.9 mm
Input voltage		100 VAC-240 VAC	100 VAC-240 VAC
Input frequency		50 Hz-60 Hz	50 Hz-60 Hz
Input current (maximum)		1.50 A	2.50 A
Output current (continuous)		4.62 A	6.70 A
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)

GPU—Integrated

The following table lists the specifications of the integrated Graphics Processing Unit (GPU) supported by your Inspiron 27-7700.

Table 19. GPU—Integrated

Controller	Memory size	Processor
Intel Iris Xe Graphics	Shared system memory	11th Generation Intel Core i5/i7

Table 19. GPU—Integrated (continued)

Controller	Memory size	Processor
Intel UHD Graphics	Shared system memory	11th Generation Intel Core i3

GPU—Discrete

The following table lists the specifications of the discrete Graphics Processing Unit (GPU) supported by your Inspiron 27-7700.

Table 20. GPU—Discrete

Controller	External display support	Memory size	Memory type
NVIDIA GeForce MX 330	Not applicable	2 GB	GDDR5

Operating and storage environment

This table lists the operating and storage specifications of your Inspiron 27-7700.

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

Table 21. Computer environment

Description	Operating	Storage
Temperature range	5°C to 35°C (32°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)
Vibration (maximum)*	0.26 GRMS	1.37 GRMS
Shock (maximum)	40 G†	105 G‡
Altitude range	3048	10668

* 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.

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 22. Self-help resources

Self-help resources	Resource location
Information about Dell products and services	www.dell.com
My Dell app	
Tips	
Contact Support	In Windows search, type `Contact Support`, and press Enter.
Online help for operating system	www.dell.com/support/windows
Troubleshooting information, user manuals, set up 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. On the menu bar at the top of the Support page, select **Support** > **Knowledge Base**. 3. In the Search field on the Knowledge Base page, type the keyword, topic, or model number, and then click or tap the search icon to view 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/region and product, and some services may not be available in your country/region.

ⓘ **NOTE:** If you do not have an active Internet connection, you can find contact information about your purchase invoice, packing slip, bill, or Dell product catalog.