iMac (Retina 5K, 27-inch, 2019) – Technical Specifications

Languages English ▾

Display

- Retina 5K display
- 27-inch (diagonal) Retina 5K display
- 5120-by-2880 resolution with support for one billion colors
- 500 nits brightness
- Wide color (P3)

Processor

- 3.0GHz
  3.0GHz 6-core Intel Core i5 (Turbo Boost up to 4.1GHz)
- 3.1GHz
  3.1GHz 6-core Intel Core i5 (Turbo Boost up to 4.3GHz)
  Configurable to 3.6GHz 8-core Intel Core i9 (Turbo Boost up to 5.0GHz)
- 3.7GHz
  3.7GHz 6-core Intel Core i5 (Turbo Boost up to 4.6GHz)
  Configurable to 3.6GHz 8-core Intel Core i9 (Turbo Boost up to 5.0GHz)

Memory

- 3.0GHz
  8GB (two 4GB) of 2666MHz DDR4 memory; four SO-DIMM slots, user accessible
  Configurable to 16GB or 32GB
- 3.1GHz
  8GB (two 4GB) of 2666MHz DDR4 memory; four SO-DIMM slots, user accessible
  Configurable to 16GB, 32GB, or 64GB
- 3.7GHz
  8GB (two 4GB) of 2666MHz DDR4 memory; four SO-DIMM slots, user accessible
  Configurable to 16GB, 32GB, or 64GB

Storage[1]

- 3.0GHz
  1TB Fusion Drive
  Configurable to 2TB Fusion Drive or 256GB, 512GB, or 1TB SSD
- 3.1GHz
  1TB Fusion Drive
  Configurable to 2TB or 3TB Fusion Drive or 256GB, 512GB, or 1TB SSD
- 3.7GHz
  2TB Fusion Drive
  Configurable to 3TB Fusion Drive or 512GB, 1TB, or 2TB SSD

Graphics

- 3.0GHz
  Radeon Pro 570X with 4GB of GDDR5 memory
- 3.1GHz
  Radeon Pro 575X with 4GB of GDDR5 memory
- 3.7GHz
  Radeon Pro 580X with 8GB of GDDR5 memory
  Configurable to Radeon Pro Vega 48 with 8GB of HBM2 memory

Video Support and Camera

- FaceTime HD camera
- Simultaneously supports full native resolution on the built-in display at 1 billion colors and:
  - One 5120-by-2880 (5K) external display at 60Hz with support for 1 billion colors, or

- Two 3840-by-2160 (4K UHD) external displays at 60Hz with support for 1 billion colors, or
- Two 4096-by-2304 (4K) external displays at 60Hz with support for millions of colors
- Thunderbolt 3 digital video output
- Native DisplayPort output over USB-C
- Thunderbolt 2, HDMI, DVI, and VGA output supported using adapters (sold separately)

Audio

- Stereo speakers
- Microphone
- 3.5 mm headphone jack

  - Support for Apple iPhone headset with microphone

Connections and Expansion

- 3.5 mm headphone jack
- SDXC card slot
- Four USB 3 ports (compatible with USB 2)
- Two Thunderbolt 3 (USB-C) ports with support for:

  - DisplayPort
  - Thunderbolt (up to 40Gb/s)
  - USB 3.1 Gen 2 (up to 10Gb/s)
  - Thunderbolt 2, HDMI, DVI, and VGA supported using adapters (sold separately)

- 10/100/1000BASE-T Gigabit Ethernet (RJ-45 connector)
- Kensington lock slot

Input

- Magic Keyboard
  Magic Keyboard comes standard with your iMac. It's wireless and rechargeable (so you won't be replacing batteries), with an ultracompact, edge-to-edge design that wastes no surface space. It has a stable scissor mechanism, optimized key travel, and a low profile that provide control and comfort. And it pairs immediately with your iMac right out of the box.
- Magic Keyboard with Numeric Keypad
  You get all the functionality of Magic Keyboard, with an extended layout that makes it even easier to work and play. Magic Keyboard with Numeric Keypad includes document navigation controls — page up, page down, home, and end — and full-size arrow keys that are perfect for navigating pro apps, moving through spreadsheets, and playing games.
- Magic Mouse 2
  Magic Mouse 2 comes standard with your iMac. The design of Magic Mouse 2 lets it glide smoothly across your desk. And since it supports Multi-Touch, you can use simple gestures on its surface to do things such as swipe between web pages and scroll through documents.
- Magic Trackpad 2
  If you prefer using a trackpad, Magic Trackpad 2 gives you the full range of Multi-Touch gestures and introduces Force Touch to the desktop. Sensors underneath the trackpad surface detect subtle differences in the amount of pressure you apply, bringing more functionality to your fingertips and enabling a deeper connection to your content. This design, along with a low profile, makes it extremely comfortable to use.

Wireless

- Wi-Fi
  802.11ac Wi-Fi wireless networking
  IEEE 802.11a/b/g/n compatible
- Bluetooth
  Bluetooth 4.2 wireless technology

Size and Weight

- Height: 20.3 inches (51.6 cm)
- Width: 25.6 inches (65.0 cm)
- Stand depth: 8 inches (20.3 cm)
- Weight: 20.8 pounds (9.42 kg)[2]

Electrical and Operating Requirements

- Line voltage: 100-240V AC
- Frequency: 50Hz to 60Hz, single phase
- Operating temperature: 50° to 95° F (10° to 35° C)
- Relative humidity: 5% to 95% noncondensing
- Operating altitude: tested up to 10,000 feet

In the Box

- iMac with Retina 5K display
- Magic Keyboard
- Magic Mouse 2
- Power cord
- Lightning to USB Cable

Operating System

macOS

macOS is the operating system that powers every Mac. macOS Catalina gives you more of everything you love about Mac. So you can take everything you do above and beyond.

Learn more

Accessibility

Accessibility features help people with disabilities get the most out of their new iMac. With built-in support for vision, hearing, mobility, and learning, you can create and do amazing things.

Learn more

Features include:

- Voice Control
- VoiceOver
- Zoom
- Increase Contrast
- Reduce Motion
- Siri and Dictation
- Switch Control
- Closed Captions
- Text to Speech

Built-in Apps[3]

- Photos
- iMovie
- GarageBand
- Pages
- Numbers
- Keynote
- Siri
- Safari
- Mail
- FaceTime
- Messages
- Maps
- News
- Stocks
- Home
- Voice Memos
- Notes
- Calendar
- Contacts
- Reminders
- Photo Booth
- Preview
- Books
- App Store
- Time Machine
- TV
- Music
- Podcasts
- Find My
- QuickTime Player

Configure to Order

Configure your iMac with these options.

Looking for an iMac you can mount on a wall or an adjustable arm? Choose an iMac with a Built-in VESA Mount Adapter

- 3.0GHz

  - Magic Trackpad 2
  - Magic Keyboard with Numeric Keypad
  - 16GB or 32GB memory upgrade
  - 2TB Fusion Drive
  - 256GB, 512GB, or 1TB SSD

- 3.1GHz

  - Magic Trackpad 2
  - Magic Keyboard with Numeric Keypad
  - 3.6GHz 8-core Intel Core i9 upgrade

- 16GB, 32GB, or 64GB memory upgrade
- 2TB or 3TB Fusion Drive
- 256GB, 512GB, or 1TB SSD
- 3.7GHz
  - Magic Trackpad 2
  - Magic Keyboard with Numeric Keypad
  - 3.6GHz 8-core Intel Core i9 upgrade
  - 16GB, 32GB, or 64GB memory upgrade
  - 3TB Fusion Drive
  - 512GB, 1TB, or 2TB SSD
  - Radeon Pro Vega 48 with 8GB of HBM2 memory

iMac and the Environment

Apple takes a complete product life cycle approach to determining our environmental impact. Learn more

iMac is designed with the following features to reduce its environmental impact:

- Arsenic-free display glass
- BFR-free
- PVC-free[4]
- Beryllium-free
- Mercury-free LED-backlit display
- Recyclable aluminum enclosure
- Speaker enclosures made with 60 percent post-consumer recycled plastic
- Fan assembly made with 27 percent bio-based plastic
- Meets ENERGY STAR requirements
- Rated EPEAT Gold[5]

Apple and the Environment

Learn more about Apple's dedication to reducing the environmental impact of our products and process. Or read our Product Environmental Reports for detailed information on the environmental performance of every Apple product.

Acoustic Performance

Declared noise emission values in accordance with ECMA-109

	Sound Power Level $L_{W A,m}$ (B)	Sound Pressure Level Operator Position $L_{p A,m}$ (dB)
Idle	2.4 (K_V = 0.3)	16
Wireless web	2.4 (K_V = 0.3)	16
Hard drive seek	2.4 (K_V = 0.3)	16

1. $L_{W A,m}$ is the mean A-weighted sound power level, rounded to the nearest 0.1 B.
2. $L_{p A,m}$ is the mean A-weighted sound pressure level measured at operator position (rounded to the nearest 1 dB).
3. 1 B (bel) = 10 dB (decibel)
4. K_V is the statistical adder for computing upper-limit of A-weighted sound power level.
5. The quantity, $L_{W A,c}$ (formerly called $L_{W Ad}$) may be computed from the sum of $L_{W A,m}$ and K_V.
6. The Wireless web test browses 25 popular websites.
7. Configuration tested: 3.7GHz 6-core Intel Core i5 processor, 8GB memory, 2TB Fusion drive, Radeon Pro 580X Graphics.

1. 1GB = 1 billion bytes and 1TB = 1 trillion bytes; actual formatted capacity less.
2. Weight varies by configuration and manufacturing process.
3. iMovie, GarageBand, Pages, Numbers, and Keynote are available on the Mac App Store. Downloading apps requires an Apple ID and a device that is compatible with the OS version required for each app.
4. PVC-free AC power cord available in all regions except India and South Korea.
5. iMac achieved a Gold rating from EPEAT in the U.S. and Canada.

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Support