iMac (Retina 5K, 27" (2020) - Technical Specifications



Display

- 5K Retina display
- 27-inch (diagonal) 5K Retina display
- 5120-by-2880 resolution with support for one billion colors
- 500 nits brightness
- Wide color (P3)
- True Tone technology
- Configurable with nano-texture glass

Processor

- **3.1GHz**
  3.1GHz 6-core 10th-generation Intel Core i5, Turbo Boost up to 4.5GHz
- **3.3GHz**
  3.3GHz 6-core 10th-generation Intel Core i5, Turbo Boost up to 4.8GHz
  Configurable to 3.6GHz 10-core 10th-generation Intel Core i9, Turbo Boost up to 5.0GHz
- **3.8GHz**
  3.8GHz 8-core 10th-generation Intel Core i7, Turbo Boost up to 5.0GHz
  Configurable to 3.6GHz 10-core 10th-generation Intel Core i9, Turbo Boost up to 5.0GHz

Memory

- **3.1GHz**
  8GB (two 4GB) of 2666MHz DDR4 memory; four SO-DIMM slots, user accessible
  Configurable to 16GB, 32GB, 64GB, or 128GB
- **3.3GHz**
  8GB (two 4GB) of 2666MHz DDR4 memory; four SO-DIMM slots, user accessible
  Configurable to 16GB, 32GB, 64GB, or 128GB
- **3.8GHz**
  8GB (two 4GB) of 2666MHz DDR4 memory; four SO-DIMM slots, user accessible
  Configurable to 16GB, 32GB, 64GB, or 128GB

Storage[1]

- **3.1GHz**
  256GB SSD
- **3.3GHz**
  512GB SSD
  Configurable to 1TB or 2TB SSD
- **3.8GHz**
  512GB SSD
  Configurable to 1TB, 2TB, 4TB, or 8TB SSD

Graphics

- **3.1GHz**
  AMD Radeon Pro 5300 with 4GB of GDDR6 memory
- **3.3GHz**
  AMD Radeon Pro 5300 with 4GB of GDDR6 memory
- **3.8GHz**
  AMD Radeon Pro 5500 XT with 8GB of GDDR6 memory
  Configurable to AMD Radeon Pro 5700 with 8GB of GDDR6 memory, AMD Radeon Pro 5700 XT with 16GB of GDDR6 memory

Video Support and Camera

- 1080p FaceTime HD camera
- Simultaneously supports full native resolution on the built-in display at 1 billion colors and:
  - One 6016-by-3384 (6K) external display at 60Hz with support for 1 billion colors, or

- Two 6016-by-3384 (6K) external displays at 60Hz with support for 1 billion colors (requires AMD Radeon Pro 5700 or AMD Radeon Pro 5700 XT), or
- 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
- Studio-quality three-mic array with high signal-to-noise ratio and directional beamforming
- 3.5 mm headphone jack
- Support for “Hey Siri”

Connections and Expansion

- 3.5 mm headphone jack
- SDXC card slot (UHS-II)
- Four USB-A ports
- 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)
- Configurable to 10Gb Ethernet with support for 1Gb, 2.5Gb, 5Gb, and 10Gb Ethernet
- Kensington lock slot

Input

- Magic Keyboard
- Magic Mouse
- Configurable with Magic Keyboard with Numeric Keypad
- Configurable with Magic Trackpad

Wireless

- **Wi-Fi**
  802.11ac Wi-Fi wireless networking
  IEEE 802.11a/b/g/n compatible
- **Bluetooth**
  Bluetooth 5.0 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: 19.7 pounds (8.92 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 90% noncondensing
- Operating altitude: tested up to 16,400 feet (5000 meters)

In the Box

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

Operating System
macOS
macOS is the most advanced desktop operating system in the world. macOS Monterey introduces powerful new features to help you connect, share, and create like never before.
Learn more about latest Operating System

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 about Accessibility

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
- Shortcuts

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

- **3.1GHz**
  - Magic Trackpad
  - Magic Keyboard with Numeric Keypad
  - 16GB, 32GB, 64GB, or 128GB memory upgrade
  - Nano-texture glass
  - 10Gb Ethernet
- **3.3GHz**
  - Magic Trackpad
  - Magic Keyboard with Numeric Keypad
  - 3.6GHz 10-core Intel Core i9 upgrade
  - 16GB, 32GB, 64GB, or 128GB memory upgrade
  - 1TB or 2TB SSD
  - Nano-texture glass
  - 10Gb Ethernet
- **3.8GHz**
  - Magic Trackpad
  - Magic Keyboard with Numeric Keypad
  - 3.6GHz 10-core Intel Core i9 upgrade
  - 16GB, 32GB, 64GB, or 128GB memory upgrade

- 1TB, 2TB, 4TB, or 8TB SSD
- AMD Radeon Pro 5700 with 8GB of GDDR6 memory
- AMD Radeon Pro 5700 XT with 16GB of GDDR6 memory
- Nano-texture glass
- 10Gb Ethernet

iMac and the Environment
We take responsibility for the environmental footprint of our products throughout their life cycle. Learn more about iMac and the Environment

The 27-inch iMac with 5K Retina display is designed with the following features to reduce its environmental impact:[4]

Made with better materials

- 100% recycled tin in the solder of the main logic board
- Enclosure made with recyclable, low-carbon aluminum
- 60% recycled plastic in multiple components

Energy efficient

- Meets ENERGY STAR requirements

Smarter chemistry

- Arsenic-free display glass
- Mercury-free LED-backlit display
- BFR-, PVC-,[5] and beryllium-free

Green manufacturing

- Final assembly supplier sites do not generate any waste sent to landfill[6]
- All final assembly suppliers are transitioning to 100% renewable energy for Apple production

Responsible packaging

- 100% of virgin wood fiber comes from responsibly managed forests

Learn more

- Read the 27-inch iMac with 5K Retina Display Environmental Report for detailed information on its environmental performance

Acoustic Performance
Declared noise emission values in accordance with ECMA-109

	Sound Power Level $L_{WA,m}$ **(B)**	**Sound Pressure Level Operator Position** $L_{pA,m}$ **(dB)**
Idle	2.3 (K_V = 0.3)	13
Wireless web	2.3 (K_V = 0.3)	13

1. $L_{WA,m}$ is the mean A-weighted sound power level, rounded to the nearest 0.1 B.
2. $L_{pA,m}$ 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, $L_{WA,c}$ (formerly called L_{WAd}) may be computed from the sum of $L_{WA,m}$ and K_V.
6. The Wireless web test browses 25 popular websites.
7. Configuration tested: 3.8GHz 8-core Intel Core i7 processor, 8GB memory, 512GB storage, Radeon Pro 5500 XT 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. Data accurate as of product launch.
5. Apple defines its restrictions on harmful substances, including definitions for what Apple considers to be “free of,” in the Apple Regulated Substances Specification. Every Apple product is free of PVC and phthalates with the exception of AC power cords in India, Thailand (for two-prong AC power cords), and South Korea, where we continue to seek government approval for our PVC and phthalates replacement.

6. Final assembly supplier sites for the 27-inch iMac with 5K Retina display are third-party certified as Zero Waste by UL LLC (UL 2799 Standard).

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