iMac Pro (2017) - Technical Specifications



Display

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

Processor

- **8-Core**
  3.2GHz Intel Xeon W
  Turbo Boost up to 4.2GHz
  19MB cache
- **10-Core**
  3.0GHz Intel Xeon W
  Turbo Boost up to 4.5GHz
  23.75MB cache

Configurable to:

- **14-Core**
  2.5GHz Intel Xeon W
  Turbo Boost up to 4.3GHz
  33.25MB cache
- **18-Core**
  2.3GHz Intel Xeon W
  Turbo Boost up to 4.3GHz
  42.75MB cache

Graphics

- **Vega 56**
  Radeon Pro Vega 56 graphics processor
  with 8GB of HBM2 memory
  56 compute units
  3584 stream processors
  9 teraflops single precision
  18 teraflops half precision

Configurable to:

- **Vega 64**
  Radeon Pro Vega 64 graphics processor
  with 16GB of HBM2 memory
  64 compute units
  4096 stream processors
  11 teraflops single precision
  22 teraflops half precision
- **Vega 64X**
  Radeon Pro Vega 64X graphics processor
  with 16GB of HBM2 memory
  64 compute units
  4096 stream processors
  12 teraflops single precision
  24 teraflops half precision

Memory

- **32GB**
  32GB of 2666MHz DDR4 ECC memory

Quad-channel memory controller

Configurable to:

- **64GB**
  64GB of 2666MHz DDR4 ECC memory
- **128GB**
  128GB of 2666MHz DDR4 ECC memory
- **256GB**
  256GB of 2666MHz DDR4 ECC memory

Storage[1]

- 1TB SSD

Configurable to:

- 2TB SSD
- 4TB SSD

Video Support and Camera

- 1080p FaceTime HD camera
- Simultaneously supports full native resolution on the built-in display at 1 billion colors and:
  - Two 5120-by-2880 (5K) external displays at 60Hz with support for 1 billion colors, or
  - Four 3840-by-2160 (4K UHD) external displays at 60Hz with support for 1 billion colors, or
  - Four 4096-by-2304 (4K) external displays at 60Hz with support for millions of colors
- Support for extended desktop and video mirroring modes
- 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
- Four microphones
- 3.5 mm headphone jack
- Support for “Hey Siri”

Connections and Expansion

- Nbase-T Ethernet with support for 1Gb, 2.5Gb, 5Gb, and 10Gb Ethernet using RJ-45 connector
- SDXC card slot with support for UHS-II
- Four USB-A ports
- Four Thunderbolt 3 (USB-C) ports with support for:
  - DisplayPort 1.2
  - 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)

Input

- Space Gray Magic Keyboard with Numeric Keypad
- Space Gray Magic Mouse 2
- Optional Space Gray Magic Trackpad 2

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: 21.5 pounds (9.7 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)
- Typical acoustical performance: Sound pressure level (operator position): 13 dBA at idle[3]

In the Box

- iMac Pro
- Space Gray Magic Keyboard with Numeric Keypad
- Space Gray Magic Mouse 2
- Lightning to USB Cable
- Power cord

Operating System
macOS
macOS is the most advanced desktop operating system in the world. macOS Big Sur introduces a bold new design and major updates to apps — taking macOS to a new level of power and beauty.
Learn more

Accessibility
Accessibility features help people with disabilities get the most out of their new iMac Pro. 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[4]

- 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

iMac Pro and the Environment
Apple takes a complete product life cycle approach to determining our environmental impact. Learn more

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

- Arsenic-free display glass
- Mercury-free LED-backlit display
- Brominated flame retardant-free
- PVC-free[5]
- Beryllium-free
- Recyclable aluminum enclosure

- Speaker, keyboard, and trackpad enclosures made with post-consumer recycled plastic
- Fan assembly made with 26 percent bio-based plastic
- 100 percent of packaging fibers are sourced from responsibly managed forests or recycled paper

Apple and the Environment
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 $L_{WA,m}$ **(B)**	**Sound Pressure Level Operator Position** $L_{pA,m}$ **(dB)**
Idle	2.1 (K_V = 0.3)	13
Wireless web	2.1 (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: 3.2GHz 8-core Intel Xeon W processor, 32GB memory, 1TB storage, Radeon Pro Vega 56 Graphics.

1. 1TB = 1 trillion bytes; actual formatted capacity less.
2. Weight varies by configuration and manufacturing process.
3. Acoustics measured from typical operator position sitting in front of standard iMac Pro system. Acoustics may vary by configuration.
4. 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.
5. PVC-free AC power cord available in all regions except India and South Korea.

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