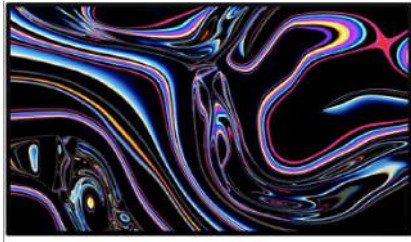# Pro Display XDR – Technical Specifications

Languages English ⌄

Finish

- Standard glass
- Nano-texture glass

Display

- Retina 6K Display
- 32-inch (diagonal) IPS LCD display with oxide TFT technology

  - Resolution: 6016 by 3384 pixels (20.4 million pixels) at 218 pixels per inch
  - Aspect ratio: 16:9

- XDR (Extreme Dynamic Range)

  - Brightness: 1000 nits sustained (full screen), 1600 nits peak [1]
  - Contrast ratio: 1,000,000:1
  - Color: P3 wide color gamut, 10-bit depth for 1.073 billion colors
  - SDR brightness: 500 nits
  - Viewing angle: Superwide angle with high-fidelity color and contrast at 89° left, 89° right, 89° up, 89° down
    Fully laminated; 1.65% reflectivity (typical)

Pro Stand and VESA Mount Adapter sold separately

Technology

- 2D backlighting system using 576 full array local dimming zones
- Apple-designed timing controller (TCON) chip engineered to precisely control high-speed modulation of both 20.4 million LCD pixels and 576 LEDs in backlight for seamless synchronization
- True Tone technology with dual ambient light sensor (ALS) design to ensure an accurate viewing experience in any ambient lighting condition

Refresh Rates

- 47.95Hz
- 48.00Hz
- 50.00Hz
- 59.94Hz
- 60.00Hz

Reference Modes
Available reference modes:

- Pro Display XDR (P3-1600 nits)
- HDR Video (P3-ST 2084)
- NTSC Video (BT.601 SMPTE-C)
- Digital Cinema (P3-DCI)
- Design and Print (P3-D50)
- Internet and Web (sRGB)
- Apple Display (P3-500 nits)
- HDTV Video (BT.709-BT.1886)
- PAL and SECAM Video (BT.601 EBU)
- Digital Cinema (P3-D65)
- Photography (P3-D65)

Software Features
The following features require macOS Catalina 10.15.2 or later:

- Reference mode selection
- Reference status indicator
- Brightness control
- Portrait/landscape detection

- Night Shift
- True Tone
- Dolby Vision, HDR10, and Hybrid-Log Gamma (HLG) playback support
- User calibration

Size and Weight

- Width: 28.3 inches (71.8 cm)
- Height: 16.2 inches (41.2 cm)
- Depth: 1.1 inches (2.7 cm)
- Weight: 16.49 pounds (7.48 kg)[2]

Connections

- One upstream port for Mac Pro or other Thunderbolt 3 host (96W host charging)
- Three USB-C (USB 2) ports for charging or syncing[3]

Learn more about Thunderbolt 3
Learn more about SDI connectivity

Compatibility
Pro Display XDR is compatible with the following Mac models running macOS Catalina 10.15.2 or later:

- Mac Pro (2019) with MPX Module GPUs
- 15-inch MacBook Pro (2018 or later)
- 16-inch MacBook Pro (2019)
- 13-inch MacBook Pro with four Thunderbolt 3 ports (2020)
- 13-inch MacBook Pro with M1 chip (2020)
- MacBook Air (2020)
- MacBook Air with M1 chip (2020)
- 27-inch iMac (2019 or later)
- 21.5-inch iMac (2019)
- Mac mini with M1 chip (2020)
- Any Mac model with Thunderbolt 3 ports paired with Blackmagic eGPU or Blackmagic eGPU Pro

In the Box

- Pro Display XDR
- Power cord (2 m)
- Apple Thunderbolt 3 Pro Cable (2 m)
- Polishing cloth

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
- Maximum altitude: tested up to 16,400 feet (5000 meters)

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

Pro Display XDR is designed with the following features to reduce its environmental impact:

Made with better materials

- Enclosure made with low-carbon aluminum

Energy efficient

- Meets ENERGY STAR requirements[4]

Responsible packaging

- Recyclable, majority-fiber packaging
- 100% of primary wood fiber comes from responsibly managed forests

Smarter chemistry

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

1. In temperatures less than 25° C.
2. Weight varies by configuration and manufacturing process.
3. For the 16-inch MacBook Pro, USB-C ports have USB 3.1 Gen 1 data transfer speeds.
4. ENERGY STAR and the ENERGY STAR mark are registered trademarks owned by the U.S. Environmental Protection Agency.

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