# Studio Display XDR - Tech Specs

Year introduced: 2026

## Display

**5K Retina XDR display**

27-inch (diagonal) 5K Retina XDR display

5120-by-2880 resolution at 218 pixels per inch

Mini-LED backlight with 2304 dimming zones

Up to 1000 nits brightness (SDR)

2000 nits peak[1] brightness (HDR)

120Hz refresh rate and Adaptive Sync

Support for 1 billion colors

P3 + Adobe RGB wide color gamuts

True Tone technology

**Configurable with:**

Nano-texture glass

## Reference Modes

**Available reference modes:**

Studio Display XDR (P3-2000 nits)

Studio Display XDR (P3 + Adobe RGB-2000 nits)

HDR Video (P3-ST 2084)

HDTV Video (BT.709-BT.1886)

NTSC Video (BT.601 SMPTE-C)

PAL and SECAM Video (BT.601 EBU)

Digital Cinema (P3-DCI)

Digital Cinema (P3-D65)

Design and Print (P3-D50)

Design and Print (Adobe RGB-D50)

Photography (P3-D65)

Photography (Adobe RGB-D65)

HDR Photography (P3-D65)

Internet and Web (sRGB)

Medical Imaging (DICOM-350 nits)[2]

Medical Imaging (DICOM-600 nits)[2]

## Camera

12MP Center Stage camera with Desk View

## Audio

High-fidelity six-speaker system with force-cancelling woofers

Wide stereo sound

Support for Spatial Audio when playing music or video with Dolby Atmos

Studio-quality three-mic array with high signal-to-noise ratio and directional beamforming

Support for “Hey Siri”

## Connections

**Two Thunderbolt 5 ports (up to 120Gb/s) and two USB-C ports (up to 10Gb/s)**

One upstream Thunderbolt 5 port for host (with 140W host charging)

One downstream Thunderbolt 5 port for connecting high-speed accessories or daisy-chaining additional displays

Two USB-C ports (up to 10Gb/s) for connecting peripherals, storage, and networking

## Stand

**Tilt- and height-adjustable stand**

Tilt: –5° to +25°

Height adjustment: total of 105 mm

Orientation: landscape

**Configurable with:**

VESA mount adapter

Compatible with 100 x 100 mm VESA stand

Orientation: landscape or portrait

## Size and Weight

**Studio Display XDR with tilt- and height-adjustable stand**

**Height (bottom position):** 18.8 inches (47.8 cm)

**Width:** 24.5 inches (62.3 cm)

**Height (top position):** 23.0 inches (58.3 cm)

**Weight:** 18.7 pounds (8.5 kg)[3]

**Depth:** 8.4 inches (21.4 cm)

**Studio Display XDR with VESA mount adapter**

**Height:** 14.3 inches (36.2 cm)

**Width:** 24.5 inches (62.3 cm)

**Depth:** 1.3 inches (3.3 cm)

**Weight:** 13.9 pounds (6.3 kg)[3]

## Compatibility

**Studio Display XDR is compatible with the following Mac models with Apple silicon and macOS Tahoe 26.3.1 or later:**

16-inch MacBook Pro (2021 and later)

14-inch MacBook Pro (2021 and later)

13-inch MacBook Pro (M1, 2020 and later)

15-inch MacBook Air (2023 and later)

13-inch MacBook Air (M1, 2020 and later)

Mac Studio (2022 and later)

Mac mini (2020 and later)

Mac Pro (2023 and later)

24-inch iMac (2021 and later)

Mac models with M1, M1 Pro, M1 Max, M1 Ultra, M2, and M3 support Studio Display XDR at up to 60Hz. All other Studio Display XDR features are supported.

**Studio Display XDR is compatible with the following iPad models with iPadOS 26.3.1 or later:**[4]

iPad Pro (M4 and M5)

iPad Pro 12.9-inch (3rd–6th generation)

iPad Pro 11-inch (1st–4th generation)

iPad Air (M2, M3, and M4)

iPad Air (5th generation)

iPad Pro (M5) supports Studio Display XDR at 120Hz. All other compatible iPad models support it at 60Hz.

## In the Box

**Studio Display XDR**

**Thunderbolt 5 Pro cable (1 m)**

## 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

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

## Configure to Order

Configure your Studio Display XDR with these options at apple.com:

Nano-texture glass

VESA mount adapter

## Studio Display XDR and the Environment

**Studio Display XDR is designed to reduce environmental impact:**[5]

**Progress toward Apple 2030**

Apple 2030 is our commitment to be carbon neutral for our entire carbon footprint. Our plan to decarbonize products is rigorous and focuses on transitioning to low-carbon electricity, designing with recycled and low-carbon materials, and prioritizing lower-carbon ways of shipping products, like ocean freight.

See Apple's commitment

**Materials**

100% recycled aluminum in the stand

100% recycled copper in multiple printed circuit boards

100% recycled copper and zinc in the AC inlet prongs

80% recycled glass in the standard glass

100% recycled gold plating and tin solder in all Apple-designed printed circuit boards

100% recycled rare earth elements in all magnets

**Energy**

ENERGY STAR® certified[6]

**Packaging**

100% fiber-based packaging[7]

**Waste**

No established final assembly sites generate waste sent to landfill as part of Apple's Zero Waste Program[8]

**Smarter chemistry**[9]

All of the materials used in Apple products, accessories, and packaging are covered by the requirements of our Regulated Substances Specification, which was one of the first in industry to restrict the use of key substances of concern. See the latest Environmental Progress Report to understand Apple's recent efforts in phasing out these chemistries.

1. In temperatures less than 25° C.
2. The Medical Imaging Calibrator is pending FDA review and expected to be available soon. The medical imaging presets should not be used for diagnostic purposes unless the display has been calibrated using the Medical Imaging Calibrator on macOS and paired with a compatible DICOM viewer. The presets are available on Studio Display XDR and are intended for use by medical professionals. Not intended for use in mammography.
3. Weight varies by configuration and manufacturing process.
4. Studio Display XDR camera features and firmware updates require connection to a Mac. When connected to iPad Pro 12.9-inch (3rd and 4th generation), iPad Pro 11-inch (1st and 2nd generation), or iPad Air (5th generation), Studio Display XDR USB-C ports deliver USB 2 data transfer speeds.
5. Data accurate as of product launch.
6. ENERGY STAR and the ENERGY STAR mark are registered trademarks owned by the U.S. Environmental Protection Agency.
7. Breakdown of U.S. retail packaging by weight. Adhesives, inks, and coatings are excluded from our calculations.
8. All established final assembly supplier sites — those that have been Apple suppliers for more than one year — for Studio Display XDR are third-party verified as Zero Waste by UL LLC (UL 2799 Standard). UL requires at least 90% diversion through methods other than waste to energy to achieve Zero Waste to Landfill (Silver 90–94%, Gold 95–99%, and Platinum 100%) designations.
9. Apple's Regulated Substances Specification describes Apple's restrictions on the use of certain chemical substances in materials in Apple products, accessories, manufacturing processes, and packaging used for shipping products to Apple's end-customers. Restrictions are derived from international laws or directives, regulatory agencies, eco-label requirements, environmental standards, and Apple policies.

Every Apple product is free of PVC and phthalates except for 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. Apple products comply with the European Union Directive 2011/65/EU and its amendments, including exemptions for the use of lead such as high-temperature solder. Apple is working to phase out the use of these exempted substances for new products where technically possible.