

Microsoft Surface Laptop Studio 2

The versatility to create. The power to perform.

Reimagine how your team gets work done with the most powerful Surface ever. **Surface Laptop Studio 2** delivers enterprise-level performance in a revolutionary design that seamlessly transitions between modes.

Go from a touchscreen laptop to the perfect angle for collaboration to a portable canvas, all at the fast pace of the modern workplace. With Microsoft security and innovative Windows 11 features enabled out of the box, Surface Laptop Studio 2 is the ultimate powerhouse laptop.

Vibrant 14.4" ⁴ PixelSense™
Flow touchscreen with a refresh rate up to 120hz

Omnisonic® speakers and far-field Studio Mics featuring Voice Clarity⁶



A more serviceable design that minimizes downtime⁵

All-day productivity with all-day battery life⁸

DESIGNED FOR PERFORMANCE

The most powerful Surface delivers over 2x more computing power and up to twice the graphics performance for demanding jobs or multitasking.¹

EMPOWER CREATIVITY AND COLLABORATION

Elevate productivity through with Microsoft 365² through a high-quality touchscreen, Studio Camera, speakers, mics, and all the ports your workers need.

VERSATILITY FOR ANY CHALLENGE

Give your teams the power to tackle any challenge, whether they're compiling data, multitasking across 4K displays, jumping between calls, or sketching ideas.

DEPLOY, MANAGE, AND STAY SECURED ANYWHERE

Protect your organization's data with Secured-core PCs and chip-to-cloud security³ as IT saves time and money through modern deployment and management.



New Studio Camera with a wide field of view and AI-powered features

Seamless transitions between three different modes through the dynamic woven hinge

Inking like pen on paper with Surface Slim Pen 2⁷

Disclaimers

¹Available as an option on certain of Surface Laptop Studio 2.

²Sold separately. Software license required for some features.

³Some cloud-enabled features and functionality require paid subscription and/or qualifying license.

⁴Surface Laptop Studio 2 display has rounded corners within a standard rectangle. When measured as a standard rectangular shape the screen is 14.36" diagonally (actual viewable area is less).

⁵Customer Replaceable Units (CRUs) are components available for purchase through your Surface Commercial Authorized Device Reseller. Components can be replaced on-site by a skilled technician following Microsoft's [Service Guide](#). Opening and/or repairing your device can present electric shock, fire and personal injury risks and other hazards. Use caution if undertaking do-it-yourself repairs. Device damage caused during repair will not be covered under Microsoft's Hardware Warranty or protection plans. Components will be available shortly after initial launch; timing of availability varies by component and market.

⁶Voice Clarity requires Windows 11 and is available in apps which use integrated device microphones and use certain Windows audio processing modes.

⁷Sold separately.

⁸Battery life varies significantly based on device configuration, usage, network and feature configuration, signal strength, settings and other factors. See aka.ms/SurfaceBatteryPerformance for details.



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PROCESSOR 13th Gen Intel® Core™ i7-13800H Processor
Built on the Intel® Evo™ platform
Intel® Gen3 Movidius 3700VC VPU AI Accelerator

GRAPHICS Graphics options:
NVIDIA® GeForce RTX™ 4050 Laptop GPU with 6GB GDDR6 vRAM
2130 MHz boost clock speed, 80W maximum graphics power
NVIDIA® GeForce RTX™ 4060 Laptop GPU with 8GB GDDR6 vRAM
2010 MHz boost clock speed, 80W maximum graphics power
NVIDIA® RTX™ 2000 Ada Generation Laptop GPU with 8GB GDDR6 vRAM
2115 MHz boost clock speed, 80W maximum graphics power
Intel® Iris® Xe Graphics

MEMORY AND STORAGE¹ Memory options:
16GB, 32GB or 64GB LPDDR5x RAM
Storage options:
Removable² solid-state drive (Gen 4 SSD) options: 512 GB, 1TB or 2TB

DISPLAY HDR Touchscreen: 14.4"³
PixelSense™ Flow Display
Resolution: 2400 x 1600 (200 PPI)
Refresh rate: up to 120Hz
Aspect ratio: 3:2
Contrast ratio 1500:1
Color profile: sRGB and Vivid Individually color-calibrated display
VESA DisplayHDR 400 certified
Dolby Vision IQ⁴ support
Touch: 10-point multi-touch
Corning® Gorilla® Glass 5 display
Brightness:
SDR: 500 nits maximum (typical)
HDR: 650 nits peak luminance⁵

SIZE AND WEIGHT⁶ Length: 12.72 inch (323 mm)
Width: 9.06 inch (230 mm)
Height: 0.86 inch (22 mm)

Weight:
Intel® Iris® Xe graphics model: 4.18 lbs (1.89kg)
NVIDIA® graphics models: 4.37 lbs (1.98 kg)



Disclaimers

¹System software uses significant storage space. Available storage is subject to change based on system software updates and apps usage. 1 GB = 1 billion bytes. 1 TB = 1,000 GB. See [Surface.com/Storage](https://www.microsoft.com/surface/storage) for more details.

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³Surface Laptop Studio 2 display has rounded corners within a standard rectangle. When measured as a standard rectangular shape the screen is 14.36" diagonally (actual viewable area is less).

⁴Requires Dolby Vision® encoded content and video.

⁵HDR requires HDR content and enabling HDR in device settings.

⁶Might vary depending on manufacturing processes.

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BATTERY LIFE⁷	Intel® Iris® Xe graphics model: up to 19 hours of typical device usage NVIDIA® graphics models (except 2 TB SSD): up to 18 hours of typical device usage 2 TB SSD NVIDIA® graphics models: up to 16 hours of typical device usage	CAMERAS	Full HD front-facing Surface Studio Camera 1080p Full HD camera with wide field of view Windows Studio Effects with Auto Framing, Eye Contact, and Background Blur Windows Hello 2.0 face authentication camera	NETWORK AND CONNECTIVITY	Wi-Fi 6E: 802.11ax compatible Bluetooth® Wireless 5.3 technology
SECURITY	Hardware TPM 2.0 chip for enterprise-grade security and BitLocker support Enterprise-grade protection with Windows Hello 2.0 face sign-in Windows 11 Secured-core PC	AUDIO	Dual far-field Studio Mics with Voice Clarity ⁸ Quad Omnisonic® speakers with Dolby® Atmos ⁹	PEN AND ACCESSORIES COMPATIBILITY	Designed for Surface Slim Pen 2 ¹⁰ and supports tactile signals Integrated Surface Slim Pen 2 ¹⁰ storage for charging under the keyboard Supports Microsoft Pen Protocol (MPP)
		PORTS	2 x USB-C® with USB4®/Thunderbolt™ 4 (with DisplayPort and Power Delivery) USB-A 3.1 MicroSDXC card reader 3.5 mm headphone jack Surface Connect port	SOFTWARE	Windows 11 Pro Preloaded Microsoft 365 Apps ¹¹ Microsoft 365 Business Standard, Microsoft 365 Business Premium, or Microsoft 365 Apps 30-day trial ¹²

Disclaimers

⁷Up to 19.0 hours of battery life based on typical Surface device usage on Surface Laptop Studio 2 with Intel® Core™ i7-13700H Processor, 512GB, 16 GB RAM - Testing conducted by Microsoft in July-August 2023 using preproduction Windows 11 software and preproduction Surface Laptop Studio 2 Intel® Core™ i7-13700H Processor, 512GB, 16GB RAM devices. Testing consisted of full battery discharge with a mixture of active use and modern standby. The active use portion consists of (1) a web browsing test accessing eight popular websites over multiple open tabs, (2) a productivity test utilizing Microsoft Word, PowerPoint, Excel, OneNote and Outlook, and (3) a portion of time with the device in use with idle applications. All settings were default except screen brightness was set to 150 nits with Auto-Brightness, Adaptive Color, and Smart Charging disabled. Wi-Fi was connected to a network. Tested with Windows 11 Version 10.0.22621 (22H2). Battery life varies significantly with settings, usage, and other factors.

Up to 18.0 hours of battery life based on typical Surface device usage on Surface Laptop Studio 2 with Intel® Core™ i7-13700H Processor, NVIDIA® GeForce™ RTX 4050 Laptop GPU, 512GB, 16GB RAM. Testing conducted by Microsoft in July-August 2023 using preproduction Windows 11 software and preproduction Surface Laptop Studio 2 Intel® Core™ i7-13700H Processor, NVIDIA® GeForce™ RTX 4050 Laptop GPU, 512GB, 16GB RAM devices. Testing consisted of full battery discharge with a mixture of active use and modern standby. The active use portion consists of (1) a web browsing test accessing eight popular websites over multiple open tabs, (2) a productivity test utilizing Microsoft Word, PowerPoint, Excel, OneNote and Outlook, and (3) a portion of time with the device in use with idle applications. All settings were default except screen brightness was set to 150nits with Auto-Brightness, Adaptive Color, and Smart Charging disabled. Wi-Fi was connected to a network. Tested with Windows 11 Version 10.0.22621 (22H2). Battery life varies significantly with settings, usage, and other factors.

Surface Laptop Studio 2 with Intel® Core™ i7-13700H Processor, NVIDIA® GeForce™ RTX 4060 Laptop GPU, 2TB, 64GB RAM Testing conducted by Microsoft in July-August 2023 using preproduction Windows 11 software and preproduction Surface Laptop Studio 2 Intel® Core™ i7-13800H Processor, NVIDIA® GeForce™ RTX 4060 Laptop GPU, 2TB, 64GB RAM devices. Testing consisted of full battery discharge with a mixture of active use and modern standby. The active use portion consists of (1) a web browsing test accessing eight popular websites over multiple open tabs, (2) a productivity test utilizing Microsoft Word, PowerPoint, Excel, OneNote and Outlook, and (3) a portion of time with the device in use with idle applications. All settings were default except screen brightness was set to 150nits with Auto-Brightness, Adaptive Color, and Smart Charging disabled. Wi-Fi was connected to a network. Tested with Windows 11 Version 10.0.22621 (22H2). Battery life varies significantly with settings, usage, and other factors.

⁸Voice Clarity requires Windows 11 and is available in apps which use integrated device microphones and use certain Windows audio processing modes.

⁹Requires Dolby Atmos® encoded content and audio.

¹⁰Sold separately.

¹¹Sold separately. Software license required for some features.

¹²Activation required. If your device is managed by your organization's IT department, contact your IT administrator for activation. If you activate your trial outside your organization, after 30 days, you will be charged the applicable monthly or annual subscription fee. Credit card required. Cancel any time to stop future charges. See <https://aka.ms/m365businesstrialinfo>.



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ACCESSIBILITY Surface Precision Haptic touchpad with adjustable click sensitivity, right click area, and adaptive touch mode
Compatible with Surface Adaptive Kit
Compatible with Microsoft Adaptive Accessories
Includes Windows Accessibility Features – Learn More [Accessibility Features | Microsoft Accessibility](#)
Discover more Microsoft Accessible Devices & Products – [Accessible Devices & Products for PC & Gaming | Assistive Tech Accessories - Microsoft Store](#)

SUSTAINABILITY [Sustainable Products & Solutions | Microsoft CSR](#)

SERVICEABILITY Replaceable components include:²
SSD
AB cover module (display)
C cover (including: keyboard, touchpad and pen charger)
D-Plate + battery
Motherboard
Cosmetic plate
Charging Port (Surface Connect connector)
MicroSDXC card reader
USB-C® and USB-A ports connectors
Audio jack

EXTERIOR Casing: Anodized aluminum
Color: Platinum

HINGE Dynamic Woven Hinge made of woven fabric

SENSORS Auto brightness via Ambient Color Sensor
Accelerometer
Gyroscope

WHAT'S IN THE BOX Surface Laptop Studio 2
Power supply:
Intel® Iris® Xe graphics model: 102W
NVIDIA® graphics models: 120W
Quick start guide
Safety and warranty documents

KEYBOARD LAYOUT Activation: Moving (mechanical) keys
Layout: QWERTY, full row of function keys (F1-F12)
Windows key and dedicated buttons for media controls, screen brightness and mute
Backlight
Precision Haptic touchpad

WARRANTY¹³ 1-year limited hardware warranty

BATTERY CAPACITIES⁶ Battery capacity Nominal (WH) 58
Battery capacity Min (WH) 56

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⁶Might vary depending on manufacturing processes.

¹³Microsoft's Limited Warranty is in addition to your consumer law rights.

