HP Z Captis

Capture all the world's materials.

The world is your palette with the power to capture digital materials from samples and surfaces in minutes[1]. Turbocharge creativity by seamlessly integrating the complex materials of the physical world into your 3D design workflow, while streamlining production to eliminate wasted costs and time.

Digital materials. Made in minutes[2] anywhere.

Digitize swatches or surfaces in mere minutes[2] anywhere. Capture materials in up to 8K[3] resolution with a polarized and photometric computer vision system, powered by an NVIDIA® Jetson AGX Xavier module with up to 32 TOPS of AI performance.

More creative freedom. More innovative designs.

Close the gap between intention and realization with textures of the world. Effortlessly digitize and incorporate captured materials into 3D workflows for iterative design and real-time collaboration, with seamless Adobe Substance 3D Sampler integration.[4]

Digitize more. Waste less.

It's simple: digitizing materials enhances efficiency. From digital product creation to manufacturing and marketing, empower your teams with a scalable solution for digital material capture that cuts physical sample waste while saving time and money.



*Product image may differ from actual product

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Featuring

Capture Management SDK
Equip developers, researchers, and engineers with APIs for developing computer vision, AI, and local inferencing applications on the HP Z Captis.

Adobe Substance 3D Sampler
Sample and remix reality through direct integration with Adobe Substance 3D Sampler. Capture digital materials from the physical world, ready for use anywhere, and enhance them with advanced tools and filters.[5]

NVIDIA® Jetson
Enable efficient image processing (including noise reduction, HDR, color calibration, and pixel calibration) and provide the performance needed to run modern AI workloads with the embedded NVIDIA® Jetson AGX Xavier module.

Resolution
Capture physical materials and generate high-resolution digital materials up to 8K, ensuring high quality digital assets for use in 3D visualization workflows.[6]

108MP Camera
Ensure accurate, high quality images with a 108 MP camera that delivers up to 9 frames per second at 12,000 x 9,000 pixels in bayer RAW mode.

Photometric & Polarized Lighting Volume
Deliver precisely illuminated images through 8 angles of polarized lighting and 360 degrees of motorized polarization control on the camera.

Control
Regardless of your setup or connection, have the flexibility to control HP Z Captis through a connected USB cable or Wi-Fi® connection.[7]

Storage
With 2 TB of on-board storage, capture materials from physical samples and store raw frame archives as you go. Expand storage as work evolves with an easily accessible M.2 slot.[8]

Studio Mode
With the studio base on your desk, in the studio, or in the factory, take samples up to 30cm x 30cm - with backlighting for opacity.

Explorer Mode
Utilize the explorer ring in the field, on set, or in unique environments and enable flexible capture for samples larger than 30cm x 30cm.

HP Z Captis

Technical specifications

Available Operating Systems	CaptisOS
Processor family[1]	NVIDIA® Jetson AGX Xavier™
Available Processors[1]	NVIDIA® Carmel Arm®v8.2 (up to 2.2 GHz max frequency, 8 MB L2 cache, 4 MB L3 cache, 8 cores) NVIDIA® Volta (512 cores, 64 Tensor cores, 32 TOPS)
Product colour	Black carbon fiber
Form factor	Cone; Explorer ring; Studio Base
Maximum memory	(Transfer rates up to 4266 MT/s.)
Internal storage	2 TB PCIe® Gen4 x4 NVMe™ M.2 2280 SSD[2]
Ports and connectors	Cone: 1 USB Type-C® 10Gbps signaling rate[8] ; Explorer ring and studio base: 1 USB Type-C® 5Gbps signaling rate[9]
Communications	WLAN: Realtek Wi-Fi 6 RTL8852BE 802.11a/b/g/n/ax (2x2) and Bluetooth® 5.3 wireless card[3]
Camera	108MP camera [4]
Software	CapMan SDK; Captis SDK[7]
Security management	TPM 2.0 Embedded Security Chip (Common Criteria EAL4+ Certified) (FIPS 140-2 Level 2 Certified)

HP Z Captis

Technical specifications

Power	230 W power adapter, up to 89% efficiency, active PFC; Input voltage 100 to 240 VAC (+/- 10%), 47/63 Hz AC (+/- 3 Hz)
Battery type	8-cell, 96 Wh Li-ion polymer;
Dimensions	89.7 x 87.7 x 70.5 cm (Package)
Weight	16.6 kg (cone only); 2.1 kg (ring only); 17.9 kg (base only)
Sustainable impact specifications	Low halogen; Molded paper pulp cushion inside box is 100% sustainably sourced and recyclable; EPE foam is at least 90% recycled content[5,6]
What's in the box	Explorer ring; Studio Base; Capture cone; Accessory kit; Quick set up poster

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Footnotes

Messaging Footnotes

[1] Claim based on integration with Adobe Substance 3D Sampler, sold separately. HP Capture Management SDK included with purchase of HP Z Captis. Adobe Substance 3D Sampler not included with purchase. Minimum host PC requirements to run Adobe Substance 3D Sampler software: Windows 10 (64bit, version 1909), Intel Core i5 or AMD Ryzen 5, Nvidia Geforce GTX 1060, Nvidia Quadro M2000 (Pt only), Nvidia Quadro P2200 (Ds, Sa, and Sg), AMD Radeon RX 580, 4 GB VRAM, 16 GB RAM, SSD type with 30 GB of free space.
[2] Claim based on integration with Adobe Substance 3D Sampler, sold separately.
[3] 8K content required to view full 8K images.
[4] Adobe Substance 3D Sampler license required and sold separately.
[5] Adobe Substance 3D Sampler license required and sold separately.
[6] 8K content required to view full 8K images.
[7] USB cable and internet service required and sold separately.
[8] For storage drives, TB = 1 trillion bytes. Actual formatted capacity is less. Up to 64 GB is not user accessible.

Specification Footnotes

[1] The Jetson AGX Xavier module makes AI-powered autonomous machines possible, running as little as 10W, including 32GB of DRAM and delivering up to 32 TOPs of AI performance. As part of the world's leading AI computing platform, it benefits from NVIDIA's rich set of AI tools and workflows, enabling developers to quickly train and deploy neural networks.
[2] Single slot user upgradable PCIe NVME M.2 SSD. For storage drives, TB = 1 trillion bytes. Actual formatted capacity is less. Up to 64 GB is not user accessible.
[3] Wireless access point and Internet service required and sold separately. Availability of public wireless access points limited. Wi-Fi 6 (802.11ax) is backwards compatible with prior 802.11 specs.
[4] Camera module includes 7 lens elements. The field-of-view (FoV) of the imager (~70 deg H x ~56 deg V) allows for the capture of appropriately illuminated material samples as larger as 30cm x 30cm within the enclosure. Integrated Light Panels (89.7 x 87.7 x 70.5 cm).
[5] This product is low halogen except for gear belt in polarizer assembly, external power supplies, power cords, cables, and peripherals. Service parts obtained after purchase may not be low halogen.
[6] Fiber cushions made from 100% recycled wood fiber and organic materials.
[7] HP Capture Management SDK included with purchase of HP Z Captis. Adobe Substance 3D Sampler not included with purchase. Minimum host PC requirements to run Adobe Substance 3D Sampler software: Windows 10 (64bit, version 1909), Intel Core i5 or AMD Ryzen 5, Nvidia Geforce GTX 1060, Nvidia Quadro M2000 (Pt only), Nvidia Quadro P2200 (Ds, Sa, and Sg), AMD Radeon RX 580, 4 GB VRAM, 16 GB RAM, SSD type with 30 GB of free space.
[8] External data storage.
[9] Workstation connection port.

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