

# 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<sup>1</sup>. 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.**

## **Capture all the world's materials.**

Fuel your creations with the textures of the world around you, with the power to capture digital materials from samples and surfaces in minutes<sup>1</sup>. Integrate complex materials directly into your 3D workflow, all while saving time and money.

The world is your palette with the power to capture digital materials from samples and surfaces in minutes<sup>1</sup>. 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<sup>2</sup> anywhere.**

Digitize swatches or surfaces in mere minutes<sup>2</sup> anywhere. Capture materials in up to 8K<sup>3</sup> 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.<sup>4</sup>

## **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.



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## 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.<sup>5</sup>

## 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.<sup>6</sup>

## 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.<sup>7</sup>

## 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.<sup>8</sup>

## 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

## Specifications Table

<b>Available Operating Systems</b>	Captis OS
<b>Processor family<sup>1</sup></b>	NVIDIA® Jetson AGX Xavier™
<b>Available Processors<sup>1</sup></b>	NVIDIA® Carmel Arm@v8.2 (up to 2.2 GHz max frequency, 8 MB L2 cache, 4 MB L3 cache, 8 cores)
<b>Product colour</b>	Black carbon fiber
<b>Form factor</b>	Cone; Explorer ring; Studio Base
<b>Internal storage</b>	2 TB up to 4 TB PCIe® NVMe™ M.2 SSD <sup>2</sup>
<b>Available Graphics</b>	Integrated: NVIDIA® Volta
<b>Expansion slots</b>	2 M.2 2280 PCIe 4 x4
<b>Ports and connectors</b>	Front: 1 USB Type-C® 10Gbps signaling rate ; Rear: 1 USB Type-C® 5Gbps signaling rate



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## Specifications Table

<b>Communications</b>	WLAN: Realtek Wi-Fi 6 RTL8852BE 802.11a/b/g/n/ax (2x2) and Bluetooth® 5.3 wireless card <sup>3</sup> ;
<b>Camera</b>	108MP camera <sup>4</sup>
<b>Software</b>	Captis SDK <sup>12</sup>
<b>Security management</b>	TPM 2.0 Embedded Security Chip (Common Criteria EAL4+ Certified) (FIPS 140-2 Level 2 Certified)
<b>Power</b>	230 W power adapter, up to 89% efficiency, active PFC; Input voltage 100 to 240 VAC (+/- 10%), 47/63 Hz AC (+/- 3 Hz)
<b>Battery type</b>	8-cell, 96 Wh Li-ion polymer
<b>Dimensions</b>	8.9 x 16.7 x 24.8 in; 22.6 x 42.3 x 62.9 cm; 35.3 x 34.5 x 27.8 in; 89.7 x 87.7 x 70.5 cm (Package)
<b>Weight</b>	36.6 lb (cone only); 4.6 lb (ring only); 39.4 lb (base only); 16.6 kg (cone only); 2.1 kg (ring only); 17.9 kg (base only); 131.4 lb; 59.6 kg (Package)
<b>Ecolabels</b>	EPEAT® registered configurations available; TCO Certified configurations available <sup>5,6</sup>
<b>Energy star certified</b>	ENERGY STAR® certified (configurations available)
<b>Sustainable impact specifications</b>	Low halogen; 40% post-consumer recycled plastic; 25% ITE-derived closed loop plastic; Bulk packaging available; External power supply 90% efficiency; Plastic cushion inserts contain 80% recycled content; Ocean-bound plastic in system fan; 10% post-industrial recycled metal; Molded paper pulp cushion inside box is 100% sustainably sourced and recyclable <sup>7,8,9,10,11</sup>
<b>What's in the box</b>	Explorer ring; Studio Base; Capture cone; Accessory kit; Quick set up poster



# HP Z Captis

## Messaging Footnotes

- <sup>1</sup> 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 (P1 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.
- <sup>2</sup> Claim based on integration with Adobe Substance 3D Sampler, sold separately.
- <sup>3</sup> 8K content required to view full 8K images.
- <sup>4</sup> Adobe Substance 3D Sampler license required and sold separately.
- <sup>5</sup> Adobe Substance 3D Sampler license required and sold separately.
- <sup>6</sup> 8K content required to view full 8K images.
- <sup>7</sup> USB cable and internet service required and sold separately.
- <sup>8</sup> For storage drives, TB = 1 trillion bytes. Actual formatted capacity is less. Up to 64 GB is not user accessible.

- <sup>3</sup> 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.
- <sup>4</sup> 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 large as 30cm x 30cm within the enclosure. Integrated Light Panels (89.7 x 87.7 x 70.5 cm).
- <sup>5</sup> Based on US EPEAT® registration according to IEEE 1680.1-2018 EPEAT®. Status varies by country. Visit [www.epeat.net](http://www.epeat.net) for more information.
- <sup>6</sup> TCO Certified configurations available when ENERGY STAR configurations are selected with a USB Type-C® connector. ENERGY STAR available with a combination of high-performance CPUs, high-performance GPUs and select memory configurations.
- <sup>7</sup> External power supplies, power cords, cables and peripherals are not low halogen. Service parts obtained after purchase may not be low halogen.
- <sup>8</sup> Percentage of ocean-bound plastic contained in each component varies by product.
- <sup>9</sup> Recycled plastic content percentage is based on the definition set in the IEEE 1680.1-2018 standard.
- <sup>10</sup> 100% outer box packaging and corrugated cushions made from sustainably sourced certified and recycled fibers.
- <sup>11</sup> Fiber cushions made from 100% recycled wood fiber and organic materials.
- <sup>12</sup> 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 (P1 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.

## Technical Specifications Footnotes

- <sup>1</sup> 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.
- <sup>2</sup> For storage drives, TB = 1 trillion bytes. Actual formatted capacity is less. Up to 64 GB is not user accessible.

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