

### Overview

#### HP Z Captis



**Front**

1. LED lights
2. Alignment line

### Overview



#### Rear

##### HP Z Captis

- 1 USB Type-C® 10Gbps signaling rate
- Power Button
- Battery charge indicator

##### Studio Base

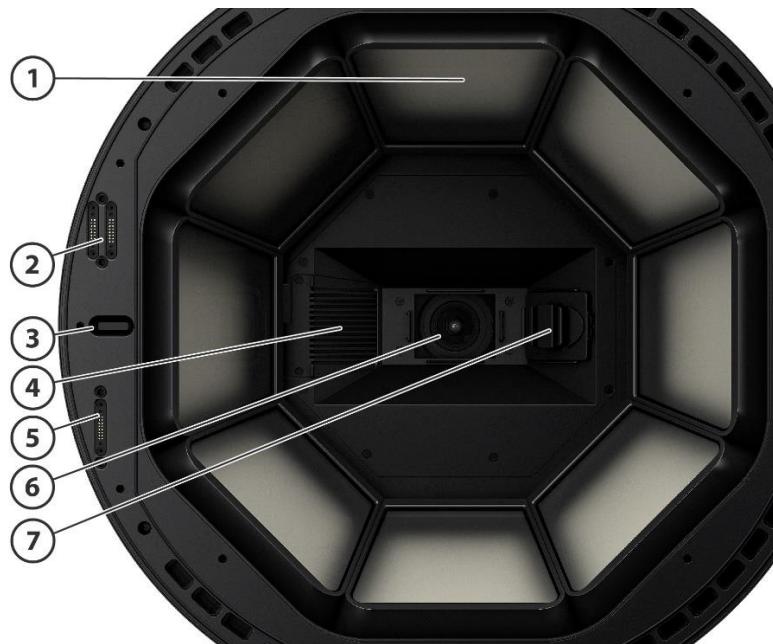
- 1 USB Type-C® 5Gbps signaling rate
- Charger/power port

## Overview



## Top view

### Overview



**Bottom view**

1. Light panels	5. Pogo Pins
2. Pogo Pins	6. Camera
3. Alignment cavity	7. Camera Cover
4. M.2 Storage	

### Overview



#### Explorer Ring

- 1. Screw attachment points
- 2. Alignment pin
- 3. Pogo Pins

### Overview



#### Studio Base

- 1. Technical Areas
- 2. Center Backlight
- 3. Tray
- 4. tray magnets

## Overview

### Models

HP Z Captis

xxxxxxxxx SKU

### What's in the box

- Explorer ring
- Accessory kit
- HP Z Captis Capture cone
- Studio base
- Quick Setup poster

### OPERATING SYSTEM

Preinstalled OS      CaptisOS<sup>1</sup>

<sup>1</sup>Embedded CaptisOS

### PROCESSOR

Processor Family: NVIDIA® Jetson AGX Xavier™<sup>1</sup>

Processor:

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)

<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.

### Overview

#### MEMORY

32 GB LPDDR4x-4266 MT/s (1 x 32 GB)  
Transfer rates up to 4266 MT/s

#### STORAGE AND DRIVES\*

**PCIe® NVMe™ M.2 Storage**  
2 TB PCIe® Gen4 x4 NVMe™ M.2 2280 SSD

\* For storage drives, TB = 1 trillion bytes. Actual formatted capacity is less. Up to 64 GB is not user accessible.

#### NETWORKING/COMMUNICATIONS

##### WLAN

Realtek Wi-Fi 6 RTL8852BE 802.11a/b/g/n/ax (2x2) and Bluetooth® 5.3 wireless card with external antenna<sup>1</sup>

<sup>1</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.

#### POWER

##### Power Supply

##### Battery

re-chargeable lithium-ion battery pack

##### Power Cord

230W Barrel AC Adapter PFC 3Pin

##### Battery life

8-cell, 96 Wh Li-ion polymer

#### Certification and Compliance

This product is low halogen except for gear belt in polarizer assembly, power cords, cables, and peripherals. Service parts obtained after purchase may not be low halogen<sup>1</sup>.

<sup>1</sup>External power supplies, power cords, cables and peripherals are not low halogen. Service parts obtained after purchase may not be low halogen

#### WEIGHTS & DIMENSIONS

##### Product Weight

Cone: 36.6 lbs Ring: 4.6 lbs Base 39.4 lbs  
Cone: 16.6 kg Ring: 2.1 kg Base: 17.9 kg

##### Cone Dimensions

27.5 in (base); 8.9 in (top); 16.6 in (height)  
69.9 cm (base); 22.6 cm (top); 42.2 cm (height)

##### Package Weight

131.4 lb  
59.6 kg

### Overview

<b>Package Dimensions</b>	35.3×34.5×27.8 in 89.7 x 87.7 x 70.5 cm
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### PORTS/SLOTS

**1 AC Power-in:****USB Ports:**

Cone: 1 USB Type-C® 10Gbps signaling rate  
Base/Ring: 1 USB Type-C® 5Gbps signaling rate

HP Captis Capture cone

Explorer ring

Studio base

### HP Z Captis Cone Scan ASSY

<b>Camera</b>	Samsung/LGIT 108MP Camera Module <sup>1</sup>
<b>Security Management</b>	TPM Security Chip
<b>Light Panels</b>	Integrated Light Panels
<b>Lens Polarizer</b>	Motor controlled polarizer (internal)

<sup>1</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).

### Service and Support

On-site Warranty and Service<sup>1</sup> : Three-years, limited warranty and service offering delivers on-site, next business-day<sup>2</sup> service for parts and labor and includes free telephone support<sup>3</sup> 8am – 5pm. Global coverage<sup>2</sup> ensures that any product purchased in one country and transferred to another, non-restricted country will remain fully covered under the original warranty and service offering. 24/7 operation will not void the HP warranty. Storage devices are not covered under warranty for 24/7 operation.

**NOTE 1:** Terms and conditions may vary by country. Certain restrictions and exclusions apply.

**NOTE 2:** On-site service may be provided pursuant to a service contract between HP and an authorized HP third-party provider and is not available in certain countries. Global service response times are based on commercially reasonable best effort and may vary by country.

**NOTE 3:** Technical telephone support applies only to HP-configured, HP and HP-qualified, third-party hardware and software. Toll-free calling and 24x7 support service may not be available in some countries. HP Care Pack Services extend service contracts beyond the standard warranties. Service starts from date of hardware purchase. To choose the right level of service for your HP product, use the HP Care Pack Services Lookup Tool at: <http://www.hp.com/go/lookuptool>. Service levels and response times for HP Care Packs may vary depending on your geographic location.

### Technical Specifications

#### SYSTEM UNIT

<b>Stand-Alone Power Requirements (AC Power)</b>	<b>Nominal Operating Voltage</b>	19.5V
<b>230W</b>		
<b>Temperature</b>	<b>Operating</b>	40° to 104° F (5° to 40° C)
	<b>Non-operating</b>	-40-140°F (-40 - 60°C)
<b>Relative Humidity</b>	<b>Operating</b>	10% to 85% Non-Condensing
	<b>Non-operating</b>	10% to 85% Non-Condensing
<b>Shock</b>	<b>Operating</b>	40 G, 1/2 Sine, 2 ms
	<b>Non-operating</b>	2ms, half sine 165 cm/s
<b>Random Vibration</b>	<b>Operating</b>	1.05grms
	<b>Non-operating</b>	1.50grms
<b>Maximum Altitude (unpressurized)</b>	<b>Operating</b>	3048m (10,000ft)

#### STORAGE AND DRIVES

<b>2 TB M.2 2280 PM9A1 Gen4x4 TLC (Samsung)*</b>	<b>Form Factor</b>	M.2 2280
	<b>Capacity</b>	2TB
	<b>NAND Type</b>	TLC
	<b>Height</b>	0.09 in (2.3 mm)
	<b>Width</b>	0.87 in (22 mm)
	<b>Interface</b>	PCIe 4.0 x4
	<b>Performance</b>	<b>Maximum Sequential Read</b> 7,000 MB/s <b>Maximum Sequential Write</b> 5,200 MB/s
	<b>Logical Blocks</b>	4,000,000,000
	<b>Operating Temperature</b>	32° to 158°F (0° to 70°C) [ambient temp]
	<b>Features</b>	Trim, Smart, encrypted: AES-128 AES-256 TCG Opal, ps5 compatible

\* For storage drives, TB = 1 trillion bytes. Actual formatted capacity is less. Up to 64 GB is not user accessible.

#### NETWORKING/COMMUNICATION

<b>WLAN Realtek CAVA2 ax 2x2 AZW<sup>1</sup></b>	<b>Wireless LAN Standards</b>	IEEE 802.11a/b/g/n/ac/ax
	<b>Interoperability</b>	Wi-Fi certified
	<b>Frequency Band</b>	2.4 GHz Band: 2.402 – 2.482 GHz 5 GHz Band: 5.150 – 5.350 GHz and 5.725 – 5.825 GHz
	<b>Data Rates</b>	802.11ax (Wi-Fi 6): Up to 286.8 Mbps with 20 MHz bandwidth Up to 573.5 Mbps with 40 MHz bandwidth Up to 1201 Mbps with 80 MHz bandwidth
		802.11ac: Data rates up to 1201 Mbps with 80 MHz bandwidth

### Technical Specifications

<b>Modulation</b>	802.11n: Up to 300 Mbps  802.11g: Up to 54 Mbps  802.11b: DSSS (DBPSK, DQPSK, CCK) 802.11g: OFDM (BPSK, QPSK, 16-QAM, 64-QAM) 802.11a: OFDM (BPSK, QPSK, 16-QAM, 64-QAM) 802.11n: OFDM (BPSK, QPSK, 16-QAM, 64-QAM) 802.11ac: OFDM (BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM) 802.11ax: OFDMA (BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM)
<b>Security<sup>1</sup></b>	<ul style="list-style-type: none"><li>IEEE and WiFi compliant 64 / 128 bit WEP encryption for a/b/g mode only</li><li>AES-CCMP: 128 bit in hardware</li><li>802.1x authentication</li><li>WPA, WPA2: 802.1x, WPA-PSK, WPA2-PSK, TKIP, and AES.</li><li>WPA2 certification</li><li>WPA3 certification</li><li>IEEE 802.11i</li><li>WAPI</li></ul>
<b>Network Architecture Models</b>	Wi-Fi 6 (802.11ax): Latest standard with higher speed and efficiency. 2x2 MIMO: Uses two antennas for better throughput. MU-MIMO: Supports multiple devices simultaneously. OFDMA: Efficient channel access for better spectrum use. Beamforming: Improves signal strength and coverage. Security: WPA3 for enhanced wireless security. Bluetooth Coexistence: Smooth operation with Bluetooth devices.
<b>Roaming</b>	IEEE 802.11v, IEEE 802.11r, IEEE 802.11k
<b>Output Power<sup>2</sup></b>	802.11b, 1Mbps: +17dBm minimum 802.11g, 6Mbps: +16dBm minimum 802.11a, 6Mbps: +17dBm minimum 802.11n, MCS7 (HT20): +14dBm minimum 802.11n, MCS7 (HT40): +13.5dBm minimum 802.11ac, MCS9 (VHT20): +13.5dBm minimum 802.11ac, MCS9 (VHT40): +13.5dBm minimum 802.11ac, MCS9 (VHT80): +12.5dBm minimum 802.11ac, MCS9 (VHT160): +10.5dBm minimum 802.11ax, MCS11 (HE20) (6GHz): +11.5dBm minimum 802.11ax, MCS11 (HE40) (6GHz): +7.5dBm minimum 802.11ax, MCS11 (HE80) (6GHz): +7.5dBm minimum 802.11ax, MCS11 (HE160) (6GHz): +7.5dBm minimum
<b>Antenna Type</b>	MHF4 - mimo status 2x2:2
<b>Form Factor</b>	PCI-Express M.2 MiniCard
<b>Dimensions</b>	1. Type 2230 : 2.3 x 22.0 x 30.0 mm
<b>Weight</b>	1. Type 2230 : 3.07g
<b>Operating Voltage</b>	3.3v +/- 5%

<sup>1</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.

### Technical Specifications

#### POWER

**HP 230W Slim 7.4 mm PFC Straight AC Power Adapter Medusa model #A230A048P**

<b>Model Number:</b>	A230A048P
<b>Power Output:</b>	230W
<b>Input Voltage:</b>	100-240V AC (+/- %10)
<b>Input Frequency:</b>	47-63 Hz AC (+/- 3hz)
<b>Output Voltage:</b>	19.5V DC (+/- %5)
<b>Output Current:</b>	11.8A
<b>Connector Size:</b>	7.4 mm (with central pin)
<b>Dimensions:</b>	6.7 x 2.9 x 1.2 inches (17 x 7.4 x 3 cm)
<b>Weight:</b>	Approximately 1.5 pounds (0.68 kg)
<b>Power Factor Correction (PFC):</b>	Yes, Active PFC
<b>Operating Temperature Range:</b>	32°F to 104°F (0°C to 40°C)
<b>Storage Temperature Range:</b>	-40°F to 185°F (-40°C to 85°C)
<b>Safety Features:</b>	Over-current protection, over-voltage protection, short circuit protection
<b>Certifications:</b>	CE, UL, FCC, RoHS

#### BATTERY

**Atemitech (ATC) 4S2P 15.2V**

<b>Model #:</b>	TF1H-FRU
<b>Battery footNOTE:</b>	re-chargeable lithium-ion battery pack
<b>Description:</b>	15.2V,6.4Ah,Lion,4S2P, Capman, VK, 606269PH, GPP, PWR
<b>Battery Life 01</b>	rated for ~96 W-Hr (15.2 DC V)
<b>Charge detail:</b>	Standard Charge

### Summary of Changes

Date of change:	Version History:	Description of change:
September 23, 2024	From v1 to v2	<b>Changed</b> Format

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