Overview

HP Z Captis



Front

1. LED lights
2. Alignment line

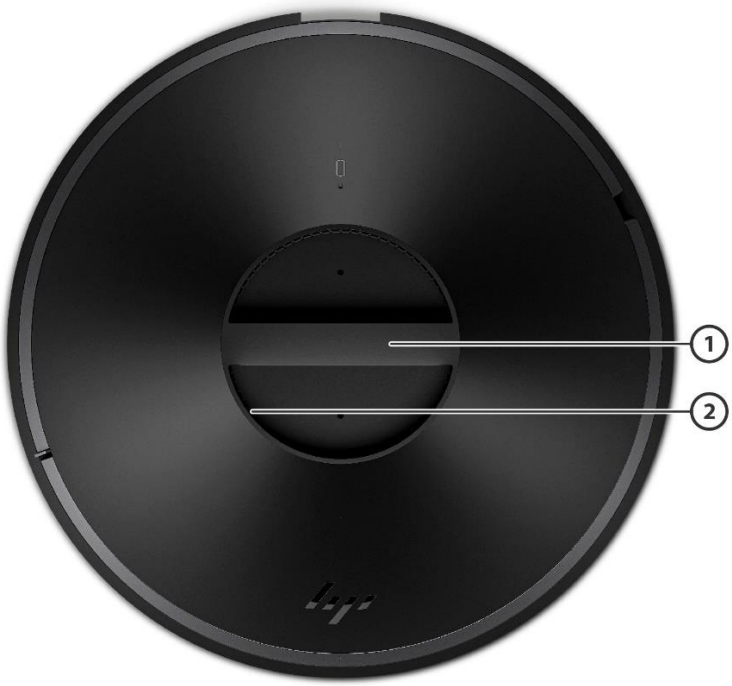
Overview



Rear

HP Z Captis	Studio Base
1. 1 USB Type-C® 10Gbps signaling rate	4. 1 USB Type-C® 5Gbps signaling rate
2. Power Button	5. Charger/power port
3. Battery charge indicator	

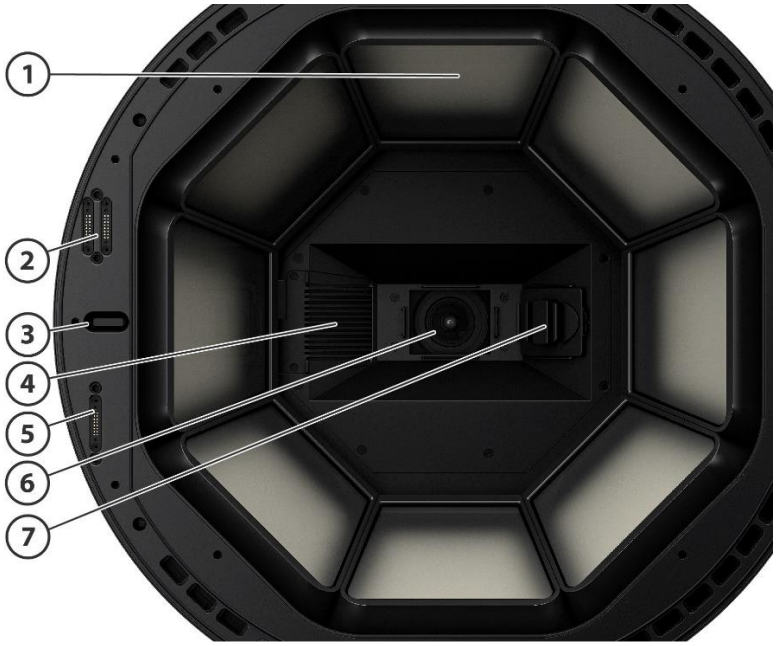
Overview



Top view

1. Handle
2. Vents

Overview



Bottom view

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

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 xxxxxxxx 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[1]

[1]Embedded CaptisOS

PROCESSOR

Processor Family: NVIDIA® Jetson AGX Xavier™[1]
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)

[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.

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[1]

[1]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[1].

[1]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

Package Dimensions	35.3×34.5×27.8 in 89.7 x 87.7 x 70.5 cm

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

Camera	Samsung/LGIT 108MP Camera Module[1]
Security Management	TPM Security Chip
Light Panels	Integrated Light Panels
Lens Polarizer	Motor controlled polarizer (internal)

[1]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).

Service and Support

On-site Warranty and Service[1] : Three-years, limited warranty and service offering delivers on-site, next business-day[2] service for parts and labor and includes free telephone support[3] 8am – 5pm. Global coverage[2] 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

Stand-Alone Power Requirements (AC Power) 230W	**Nominal Operating Voltage**	19.5V
Temperature	**Operating**	40° to 104° F (5° to 40° C)
	Non-operating	-40-140°F (-40 - 60°C)
Relative Humidity	**Operating**	10% to 85% Non-Condensing
	Non-operating	10% to 85% Non-Condensing
Shock	**Operating**	40 G, ½ Sine, 2 ms
	Non-operating	2ms, half sine 165 cm/s
Random Vibration	**Operating**	1.05grms
	Non-operating	1.50grms
Maximum Altitude (unpressurized)	**Operating**	3048m (10,000ft)

STORAGE AND DRIVES

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

WLAN Realtek CAVA2 ax 2x2 AZW[1]	**Wireless LAN Standards**	IEEE 802.11a/b/g/n/ac/ax
	Interoperability	Wi-Fi certified
	Frequency Band	2.4 GHz Band: 2.402 – 2.482 GHz 5 GHz Band: 5.150 – 5.350 GHz and 5.725 – 5.825 GHz
	Data Rates	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

	802.11n: Up to 300 Mbps 802.11g: Up to 54 Mbps
Modulation	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)
Security[1]	• IEEE and WiFi compliant 64 / 128 bit WEP encryption for a/b/g mode only • AES-CCMP: 128 bit in hardware • 802.1x authentication • WPA, WPA2: 802.1x. WPA-PSK, WPA2-PSK, TKIP, and AES. • WPA2 certification • WPA3 certification • IEEE 802.11i • WAPI
Network Architecture Models	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.
Roaming	IEEE 802.11v, IEEE 802.11r, IEEE 802.11k
Output Power[2]	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
Antenna Type	MHF4 - mimo status 2x2:2
Form Factor	PCI-Express M.2 MiniCard
Dimensions	1. Type 2230 : 2.3 x 22.0 x 30.0 mm
Weight	1. Type 2230 : 3.07g
Operating Voltage	3.3v +/- 5%

[1]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

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

BATTERY

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

Summary of Changes

Date of change:	Version History:		Description of change:
September 23, 2024	From v1 to v2	**Changed**	Format

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