

STEREO CAMERA

WITH BUILT-IN AI ACCELERATOR



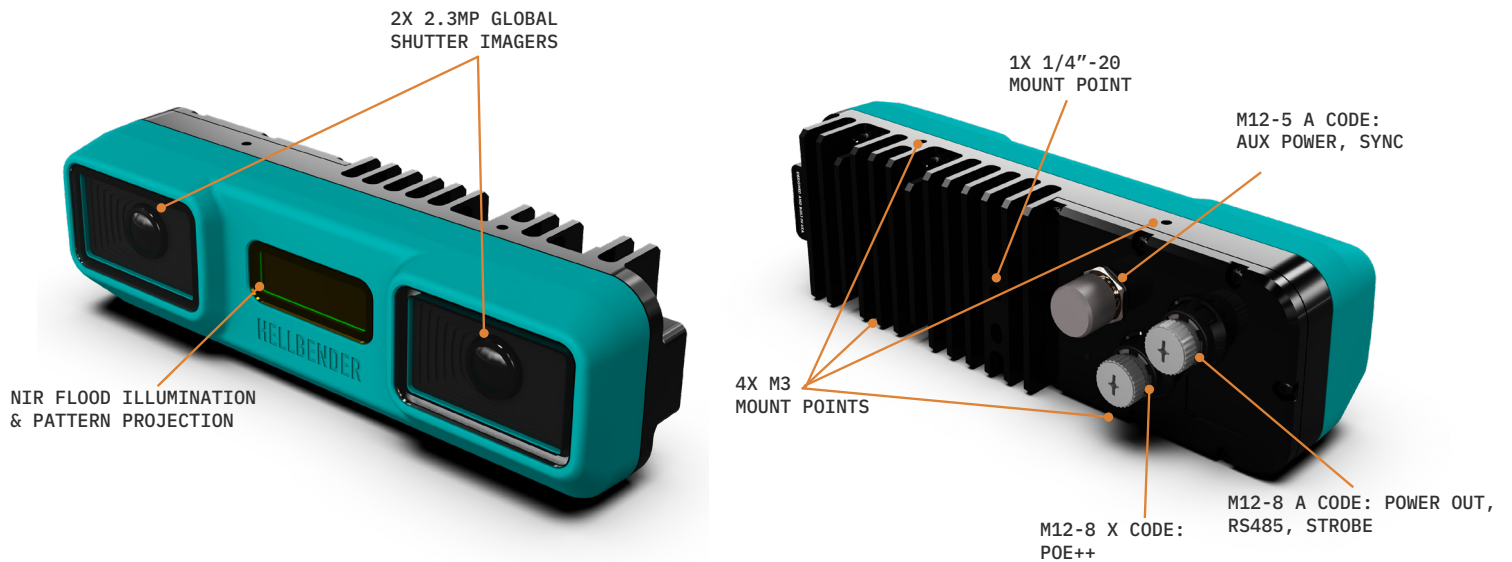
The Hellbender Stereo Camera is a fully programmable depth perception module. It provides two 2.3 MP imagers, 26 TOPS of AI acceleration, and powerful onboard compute via an open-access Linux-based operating system that puts developers in control.



SPECIFICATIONS

Dimensions	210mm x 63mm x 58mm 680g
Power	PoE++ >15W Power via 5-Pin M12 (12VDC – 24VDC input option) Auto-Power-Up on application of power
Compute	Raspberry Pi CM5 SOM Quad Core Cortex-A76 @ 2.4GHz, 16GB RAM 64GB eMMC Raspberry Pi RP2350 Dual Cortex M33 @ 150MHz Hailo-8 AI Accelerator (26 TOPS)
Electrical Interface	M12 X-Code Gigabit PoE (female) M12 A-Code 5-pin external power + synchronization (male) M12 A-Code 8-pin peripheral power out (female)
Mechanical Interface	4x M3 mounting points 1x 1/4-20 mounting point + locator pinhole
Optical	140mm Baseline 129°H x 78°V x 155°D FOV Global Shutter CMOS Image Sensor: 2.3MP (1/2.6" Diagonal) IR Cut Filter (Daylight variant only)
Sensors & Accessories	Onboard EEPROM (8kbit), programmable by I2C 6-axis IMU (3-axis accelerometer, 3 axis gyroscope), 20,000g shock tolerant Temperature, Pressure, & Relative Humidity Sensor 850nm Flood Illumination (IR Only) 850nm Pattern Projector (IR Only)
Wireless Network	2.4 GHz and 5.0 GHz IEEE 802.11 b/g/n/ac Wi-Fi (disabled in current firmware release) Bluetooth 5.0 and BLE (disabled in current firmware release)
Environment	IP67 Assembly Recommended operating temperature -20 to 45°C
Software	Default Linux-based OS with native Docker support

FEATURES



DIMENSIONS

