HCAM26 Wi-Fi HaLow IP Camera

▬ Product Brief

Vantron HCAM26 Wi-Fi HaLow IP camera is designed for building security or public surveillance applications. It integrates VT-MOB-AH-L, a self-developed Wi-Fi HaLow module that complies with the prominent sub-1GHz IEEE 802.11ah (Wi-Fi HaLow) standard. It is designed to operate in station mode when paired with a Wi-Fi HaLow access point such as Vantron HAP101 or HAP103 to ensure long-distance, reliable Wi-Fi HaLow connectivity.

HCAM26 delivers perfect output capturing 5.0 Megapixel high-resolution images for optimal visual quality. Its two-way audio capability allows seamless remote communication with its built-in microphone and speaker. The Micro SD slot supports local storage expansion, allowing for video playback of the monitoring videos for extended time period. Moreover, the camera supports up to 1km transmission distance while demonstrating unparalleled wall penetration capabilities. In general, HCAM26 offers an ideal low-power security camera solution for remote areas, isolated plants, smart home systems, and other environments.

▬ Exterior and Features

HCAM26
📡 Sub-1 GHz frequency bands
📍 Up to 1km transmission distance
📷 Resolution up to 1080P @30fps
🔊 Two-way audio
⚡ Ultra-low power consumption
▨ Better penetration through walls and obstacles
💾 Local storage expansion supported
🔋 2600mAh Li-ion battery
🛠 Screw hole for tripod connection

Labels for top view: WLAN indicator, Power indicator, Power button, USB-C, 5MP Camera, Mic in, Speaker

Labels for bottom view: Mic in, 5MP Camera, Screw hole for tripod, Restore button, Micro SD slot, Micro HDMI

HCAM26 Wi-Fi HaLow IP Camera Datasheet

HCAM26			
System	CPU	Quad-core ARM Cortex-A7 32-bit vision processor	
	MCU	RISC-V MCU	
	NPU	2.0 Tops, support INT8/ INT16	
	Memory	1GB DDR4	
	Storage	8GB eMMC	1 x SD slot
Camera Features	Image sensor	5MP 1/4" CMOS image sensor	
	Output format	8-/10-bit RGB RAW output	
	Pixel size	1.4μm x 1.4μm	
	FOV	73.9° (V), 92.4° (H), 119.9° (D)	
	Aperture	F2.4	
	Focal length	EFL: 1.785mm	BFL: 0.934mm
	Lens construction	6P	
	Object distance	20cm~180cm	
	Video compression	H.265/H.264	
	Resolution	1080P @30fps	
	Power requirement	Active: 198mW; Standby: 35μW	
Wi-Fi HaLow Features	Wi-Fi standard	IEEE 802. 11ah	
	Wi-Fi mode	Station	
	Frequency range	US: 902MHz ~ 928MHz	
	Security	WPA3, AES, SHA1, SHA2	
I/O	USB	1 x USB Type-C, image flashing supported	
	Micro HDMI	1 x Micro HDMI, up to 4K @30Hz resolution, no sound output	
	Audio	1 x Mic in	1 x 1W Speaker
	Tripod connection	Supported	
	Watchdog timer	Supported	
System Control	LED indicators	1 x Power indicator	1 x Wi-Fi HaLow connectivity indicator
	Button	1 x Power button	1 x Restore button (reboot/factory reset)
Mechanical	Dimensions	91.6mm x 65mm x 47.2mm	
	Battery	2600mAh, up to 4H operation	
Power	Input	5V/2A DC via the USB Type-C	
	Consumption	< 3.5W (average)	
Software	Operating system	Linux Yocto	
Environment Condition	Temperature	Operating: -10℃ ~ +50℃	Storage: -20℃ ~ +70℃
	Humidity	5%~ 95% RH (non-condensing)	
	Certification	FCC, CE	

Product Outlines
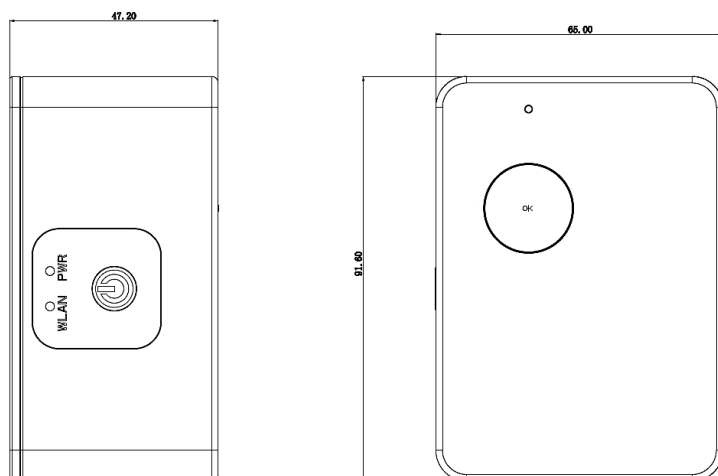
Ordering Information

Ordering No.	Memory & Storage	Description	HaLow Frequency Range	OS
HCAM26	1GB + 8GB	5MP camera, USB Type-C, Micro HDMI, Mic, Speaker	902MHz ~ 928MHz	Linux Yocto

Packing list	
HCAM26 Wi-Fi HaLow IP camera	1

Optional accessory	
12V/2A power adapter & USB cable	1 kit

Since 2002 established by two Silicon Valley entrepreneurs, Vantron Technology has been a pioneer in connected IoT devices and IoT platform solutions. Today, Vantron is serving customers all over the world, including many Global Fortune 500 companies. The product lines cover intelligent edge hardware, IoT communication devices, industrial displays and the cloud-based BlueSphere device management platform.

Vantron offers IoT communication devices that enable multi-protocol connections for industrial equipment and local data processing through edge computing. With abundant wired and wireless connectivity options, remote operations and maintenance have become easier than ever. Such devices can be deployed across different sectors such as smart retail, medical and warehousing. Moreover, Vantron's IoT solutions are designed to facilitate enterprises' digital transformation, streamline operations, enhance productivity, etc.