

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 HCAM26 or HAP103 to ensure long-distance, reliable Wi-Fi HaLow connectivity.

HCAM26 delivers perfect output capturing 4K full high-definition and 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



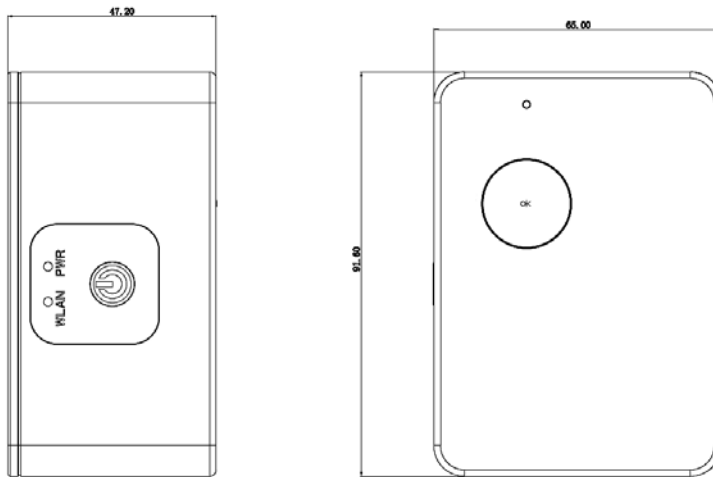
HCAM26

-  Sub-1 GHz frequency bands
-  Up to 1km transmission distance
-  4K and 5.0 Megapixel resolution
-  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

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	5 MP 1/4" CMOS image sensor		
	Resolution	2592 x 1944 (QSXGA)		
	Output format	8-/10-bit RGB RAW output		
	Frame rate	VGA: 30fps	QVGA, QQVGA, CIF: 60fps	
		QCIF, QQCIF: 120fps		
	Pixel size	1.4μm x 1.4μm		
	Focal length	EFL: 1.785mm	BFL: 0.934mm	
	FOV	73.9° (V), 92.4° (H), 119.9° (D)		
	Object distance	20cm~180cm		
	Aperture	F2.4		
	Lens construction	6P		
	Power requirement	Active: 198mW; Standby: 35μW		
Video	ISP	Max. 14MP		
	CODEC	H.265/H.264		
	Frame rate	3840 x 2160 @30 fps + 1080p @30 fps encoding supported		
3840 x 2160 @30 fps encoding + 3840 x 2160 @30 fps decoding supported				
Wi-Fi HaLow Features	Wi-Fi standard	IEEE 802. 11ah		
	Wi-Fi mode	Station		
	Frequency range	US: 902MHz ~ 928MHz	JP: 916.5MHz ~ 927.5MHz	
	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	< 3W (average)		
Software	Operating system	Linux Yocto (Support by request)		
	Remote view	Mobile App		
Environment Condition	Temperature	Operating: -10°C ~ +50°C	Storage: -20°C ~ +70°C	
	Humidity	5%~ 95% RH (non-condensing)		
	Certification	FCC, TELEC		

Product Outlines



Ordering Information

Ordering No.	Memory & Storage	Main I/Os	HaLow Frequency Range	OS
HCAM26-NA	1GB + 8GB	5MP camera, USB Type-C, Micro HDMI, Mic, Speaker	902MHz ~ 928MHz	Linux Yocto
HCAM26-JP	1GB + 8GB	5MP camera, USB Type-C, Micro HDMI, Mic, Speaker	916.5MHz ~ 927.5MHz	Linux Yocto

Packing list	
HCAM26 Wi-Fi HaLow IP camera	1
Qualified certificate	1

Optional accessories	
12V/2A power adapter (US) & USB cable	1 kit
12V/3A power adapter (JP) & 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.