

MEGVII Smart AI Box — B4H

MEGVII AI Box (B4H series) provides the hardware processing capability of multi-AI algorithms, widely used in building, community, campus and etc. Combining with AI chip + AI framework + AI algorithms, it supports multi-channel AI analysis. When it comes to smart solutions, it can support face recognition access control, person-vehicle management, perimeter protection working with Pangu platform or Hongtu server and etc.



MegCube-B4H04-311-N0

MegCube-B4H08-311-N0

MegCube-B4H16-311-N0

Product Features



Built-in Multi-AI algorithm

Built-in FR, Structured, Perimeter protection and more than *30 AI algorithm*, applied in different scenarios.



Flexible integration

Rich REST API and SDK make integration very easy and friendly.



High performance AI Meg-engine

AI Computing *over 28.8T*, *16ch* AI video stream, *300K* face database.



Convenient Deployment

Smart design supporting desktop and wall-mounting. Support RTSP standard protocol video stream for upgrade project.

Application Scenarios



Commercial Building



Smart Campus



Smart Community



Bank



Factory



Gym and Fitness



Bus Station



Museum

Model	MegCube-B4H16-311-N0	MegCube-B4H08-311-N0	MegCube-B4H04-311-N0
System Parameter			
Main Processor	High performance embedded microprocessor		
Operation System	Embedded Linux		
CPU	AX 630		
Memory	16GB DDR4		
Storage	32GB eMMC		
Support Device			
Video Decoding Type	H.264/H.265, support maximum 8MP IPC		
Video Channel	Up to 16ch	Up to 8ch	Up to 4ch
Smart Function			
Face Recognition	Up to 16ch	Up to 8ch	Up to 4ch
	Face capture, face recognition, face attribute, body capture, body attribute, face with body, database up to 300K		
Video Structured	Up to 16ch	Up to 8ch	Up to 4ch
	1. Picture Capture: Face, body, motor vehicle, non-motor vehicle 2. Attribute Output: Face, body, vehicle, non-vehicle 3. Binding Relationship: face-to- person, person-to- non vehicle		
Intelligent Alert	1. Perimeter alert up to 16ch 2. Behavior alert up to 10ch 3. People counting up to 8ch	1. Perimeter alert up to 8ch 2. Behavior alert up to 8ch 3. People counting up to 8ch	1. Perimeter alert up to 4ch 2. Behavior alert up to 4ch 3. People counting up to 4ch
	1. Perimeter alert :personnel crossing the boundary, personnel overturning the wall, personnel intrusion, personnel wandering, personnel on duty/leaving, vehicles crossing the boundary, vehicle parking prohibited, vehicles leaving. 2. Behavior alert: smoking, running, falling, phone call, play mobile phone, sleeping post, gathering, personnel scuffle		
Worker Safety Algorithm Package	Support	Support	Support
Active Report	1. Face capture, face recognition, face attribute results 2. Results and attributes of face human-machine 3. Alert		
Interface			
Network	2 x 100M/1000M Adaptive Ethernet RJ45		
Alarm Input	4 x Dry Contact		
Alarm Output	4 x Dry Contact		
Audio Input	1		
Audio Output	1		
Front USB	1 x USB2.0, 1 x USB3.0		
Back USB	2 x USB2.0		
RS485	2		
Reset Button	1		
PWR Indicator	1		
RUN Indicator	1, Red+ Green		
System Parameters			
Network Protocol	TCP/UDP/HTTP/MULTICAST/DHCP/FTP/NTP/HTTPS/RTSP		
Dual- Network	Support three modes of “multi-address setting”, “load balancing” and “main/standby mode”		
Working Conditions	-20°C~+60°C		
Power Supply	DC12V±10%, 2A		
Material	Metal Case		
Dimension	229 x 193 x 49 (mm)		
Weight	<2KG		



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