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 *60 AI algorithm*, applied in different scenarios.

High performance, algorithmic self-learning

AI Computing *over 28.8T, 300K* face database. filtering of duplicate false positives, improved algorithmic accuracy

Flexible integration

Rich WSAPI and WEBAPI make integration very easy and friendly.

Convenient Deployment

Smart design supporting desktop and wall-mounting. Support RTSP standard protocol video stream for upgrade project.
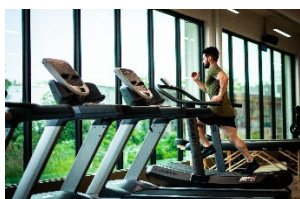
Application Scenarios
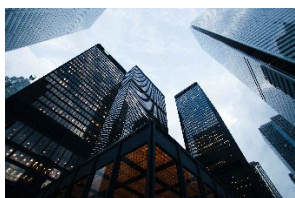
Commercial Building	Smart Campus	Smart Community	Bank
Factory	Gym and Fitness	Bus Station	Museum
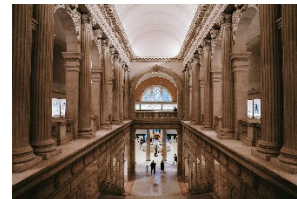
Model	MegCube-B4H16-311-N0	MegCube-B4H08-311-N0	MegCube-B4H04-311-N0
System Parameter			
Main Processor	High performance embedded microprocessor		
Operation System	Embedded Linux		
Memory	16GB DDR4		
Storage	32GB eMMC		
Support Device			
Video Decoding Type	H.264/H.265, support maximum 8MP IPC		
Video Channel	Up to 16ch	Up to 8ch	Up to 4ch
Smart Function (Standard Algorithm)			
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 300,000		
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 (Perimeter & Behavior)	Up to 16ch (each channel support 4 kinds of sub-rules)	Up to 8ch (each channel support 4 kinds of sub-rules)	Up to 4ch (each channel support 4 kinds of sub-rules)
	Sub-rules: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, climbing detection, smoking, running, falling, phone call, play mobile phone, sleeping post, gathering, personnel scuffle, guns detection		
Goods Alert	Up to 16ch (each channel support 4 kinds of sub-rules)	Up to 8ch (each channel support 4 kinds of sub-rules)	Up to 4ch (each channel support 4 kinds of sub-rules)
	Sub-rules: sundry detect, goods left, goods guard, Detection of debris		
Head Count	Up to 16ch (each channel support 2 kinds of sub-rules)	Up to 8ch (each channel support 2 kinds of sub-rules)	Up to 4ch (each channel support 2 kinds of sub-rules)
	Sub-rules: regional people count, enter-exit people count		
Video Diagnosis	Up to 16ch (each channel support 1 kinds of sub-rules)	Up to 8ch (each channel support 1 kinds of sub-rules)	Up to 4ch (each channel support 1 kinds of sub-rules)
High-Level Algorithm (Optional Algorithm)			
Work Safety	Up to 16ch (each channel support 4 kinds of sub-rules)	Up to 8ch (each channel support 4 kinds of sub-rules)	Up to 4ch (each channel support 4 kinds of sub-rules)
	Sub-rules: safety helmet detection , uniform detection , seat belt detection , reflective clothing detection , flame detection , smoke detection , fire protection facility detection , liquid leakage, mask detection		
Clear Kitchen and Bright Stove	Up to 16ch (each channel support 4 kinds of sub-rules)	Up to 8ch (each channel support 4 kinds of sub-rules)	Up to 4ch (each channel support 4 kinds of sub-rules)
	Sub-rules: mouse detection , trash can uncovered detection , chef uniform detection, chef hat detection, mask detection, gloves detection, fire detection		
Smart community	Up to 16ch (each channel support 4 kinds of sub-rules)	Up to 8ch (each channel support 4 kinds of sub-rules)	Up to 4ch (each channel support 4 kinds of sub-rules)
	Sub-rules: electric vehicles entering ladders , flame detection , smoke detection , fire protection facility detection , garbage overflow , garbage exposure , throwing objects from a height		
Fire Alert	Up to 16ch (each channel support 4 kinds of sub-rules)	Up to 8ch (each channel support 4 kinds of sub-rules)	Up to 4ch (each channel support 4 kinds of sub-rules)
	Sub-rules: smoke detection , flame detection , fire protection facility detection		
Gas Station	Up to 16ch (each channel support 4 kinds of sub-rules)	Up to 8ch (each channel support 4 kinds of sub-rules)	Up to 4ch (each channel support 4 kinds of sub-rules)
	Sub-rules: flame detection , smoke detection , fire protection facility detection , static wire alarm , oil unloading pipe detection , oil pipe breakage , oil engine side cover opening , liquid leakage		
Smart Urban governance	Up to 16ch (each channel support 4 kinds of sub-rules)	Up to 8ch (each channel support 4 kinds of sub-rules)	Up to 4ch (each channel support 4 kinds of sub-rules)
	Sub-rules: out-of-store operations, traveling vendors, road-occupying operations, debris accumulation, accumulation of muck, exposed garbage, outdoor advertising, road water accumulation, garbage truck identification, garbage truck tarpaulin uncovered		
Intelligent construction site	Up to 16ch (each channel support 3 kinds of sub-rules)	Up to 8ch (each channel support 3 kinds of sub-rules)	Up to 4ch (each channel support 3 kinds of sub-rules)
	Sub-rules: No helmet detection, no overalls detection, no seat belt detection, no reflective clothing detection, no mask detection, flame, smoke, fire facility detection, dump truck identification, dump truck sheeting uncovered, dump trucks not sprayed, bare soil uncovered, exposed skin		