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Microview Black Box

Infinite AI Applications, One Smart Box

Overview

Microview Black Box is an edge AI computing product, that empowers your system with unparalleled AI video analytics capabilities. Seamlessly integrating with cameras, it provides a standalone solution for comprehensive video analysis. Additionally, the deep integration with Microview VMS Enterprise is offering for a truly unified experience, while it also effortlessly transfers analyzed results to third-party VMS or NVR through HTTP.

FEATURES

- 8-CH Model
- Closed-loop Solution with Microview VMS Enterprise
- Diverse and Enriched AI Algorithms
- High-efficiency AI Computing for Existing System
- 99% High Accuracy Rate

Scalability of Connectivity

- Fully integrate with Microview network cameras and 3rd party network cameras
- Support H.265/H.264, offering better compression and substantially improving video quality.

Ease of Use

- Compatible with existing Microview VMS system, meets the need for optimally and purposefully expanded and upgraded.
- Centralized management of diverse attributes at Microview VMS Enterprise.
- HTML5 Web-based configuration.
- Easy configuration and quick system start-up





MICROVIEW BLACK BOX

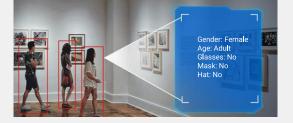
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NDA

Intelligent Applications

Clientele Classification & Identity Management

Face-human & Recognition, Structure Analysis, such as Face, Body, Vehicle and Plate, etc.



Alert_Alarm Management

Smoke, Call, Run, Sleep, Gather, Fight, Person_Over, Hold_Weapon, Park, Wander, Over_Wall, Intrusion, etc.



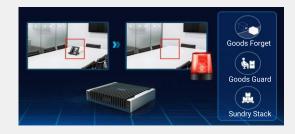
Over-crowd Management

Regional People Counting, Entrance & Exit People Counting.



Objects Management

Sundry Detect, Goods Forget, Goods Guard.





Fall, Smoke, Call, Watch Pho ne, Run, Sleep Detection, etc.



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TECHNICAL SPECIFICATION

Main Processor	High-performance embedded microprocessors						
Operating System	Embedded Linux, 8GB of RAM and 32GB of storage						
DEVICE ACCESS							
Video Stream Input	Video Resolution: 1920 x 1080 (1080P), 2560 x 1440 (4MP), 3840 x 2160 (8MP), Maximum video access capacity: 4*8MP; 8*4MP; 8*1080P. Decoding limit: 8*1080P						
Video Decoding Type	H.264/H.265						
SMART FUNCTIONS							
Working mode: multi-algorithm parallel, configurable by channe	 Face-Human & Recognition: (full load maximum 8 channels): face capture, face recognition, faceattributes, human body capture human attributes, face-human binding. Structure Analysis: (full load max 8 channels): Image capture: face, human body, motor vehicle, non-motor vehicle Attribute output: face, human body, motor vehicle, non-motor vehicle Association relationship: face-person binding, person-non-motor Diagnosis_Alarm: (full load maximum 8 channels): Image_Cover_Alert Alert_Alarm: (fully loaded 8 channels, 4 sub-rules per channel): Fall, Smoke, Call, WatchPhone,Run, Sleep, On/Off Duty, Gather, Fight, Person_Over, Person_Less, Hold_Weapon, Park, Exit, Wander,Over_Wall, Intrusion, Tripwire, Climb. Goods_Alarm: (fully loaded 8 channels, 2 sub-rules per channel): Head_Count, Cross_Line Note: Functional compatibility of Al Box with Microview VMS Enterprise depends onthespecificversionimplementation 						
Report	Support face capture, face recognition, face attributes, human body, motor vehicle, non-motorvehicleattributes, and alert alarm analysis results reporting.						
Accuracy	Face: face capture rate ≥ 99%, false capture rate < 1%, recognition pass rate: >99.5%, recognitionfalserate: < 0.5%. Human body: human body capture rate ≥ 95%, false catch rate < 1%. Motor vehicle: motor vehicle capture rate ≥ 90%, false catch rate < 1%. Non-motor vehicle: non-motor vehicle capture rate ≥ 95%, false catch rate < 1%.						

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INTERFACE PARAMETERS

Network Interface	2, 100M/1000M adaptive Ethernet, RJ45 interface
Alarm Input Interface	2-way switch
Alarm Output Interface	2-way switch
Audio Output	1-way
Audio Input	1-way
Rear USB Interface	1 x USB 2.0 and 1 x USB 3.0
RS485	2-way
RS232	1
Reset Button	1
Run Indicator (RUN).	1



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TECHNICAL SPECIFICATION

SYSTEM CAPABILITIES

Face Recognition	Employee passage at the entrance; List control and identification of key personnel, alarm, strangeridentification, etc.				
	Face library capacity: 64 face libraries, total 300,000 face pictures				
Video Structured	Capture of face, human body, motor vehicle and non-motor vehicle, etc., attribute analysis.				
Network Protocols	TCP/UDP/HTTP/MULTICAST/DHCP/FTP/NTP/HTTPS/RTSP, etc.				
Dual Network Ports	Supports three modes: multiple access setting, load balancing, and primary/standby mode.				
Log Queries	It can query, search and display the capture information of face, human body, motor vehicleandnon-motor vehicle.				

ENVIRONMENT REQUIREMENTS

Operating Temperature	$-20^{\circ}C \sim +60^{\circ}C$
Storage Temperature	-20°C ~ +60°C
Relative Humidity	10% \sim 90%RH, non-condensing

OTHER

Power Supply	DC12V±10%, 3.33A
Dimensions (L/D)	179×150×42 (mm)
Weight	1Kg
Warranty	2 Years

RULE SETTING

Algorithm Pockets Management

Algorithm Pocket	Face-Human	Diagnosis	Structure	Alert	Goods	Headcount
MV108-A	8*1	8*1	8*1	8*4 sub-rules	8*2 sub-rules	8*2sub-rules
Sub-rules				Fall, Smoke, Call, Watch Phone, Run, Sleep, On/Off Duty, Gather, Fight, Person_Over, Person_Less, Hold_Weapon Park, Exit, Wander, Over_Wall, Intrusion, Tripwire, Climb	Sundry_Stack, Goods_Guard, Goods_Forget	Head_Count, Cross_Line

Note:

1) One AI Box supports up to 8 algorithm pockets for stacked use at the same time.

2) Each channel supports overlaying 4 different algorithm pockets, but does not support simultaneous deployment of "Face-Human & Recognition" and "Structure_Analysis" algorithms. For example, if users choose channel 1 to open four algorithm pockets at the same time, Structure_Analysis, Alert_Alarm (with 4 sub-rules), Goods_Alarm(with 2 sub-rules) and Headcount_Alarm(with 2 sub-rules), and channel 2 to open the above four algorithm pockets at the same time, at which time the Al Box's computing power is full.



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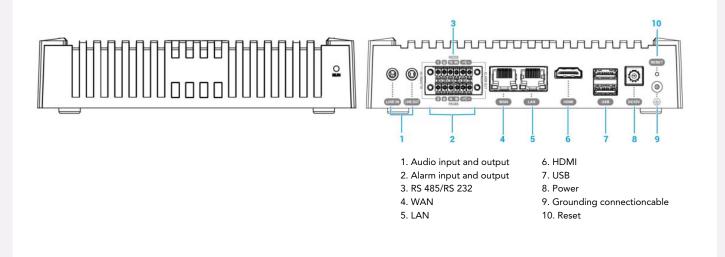




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MICROVIEW BLACK BOX

STRUCTURE DIAGRAMS





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