

Milesight AI Box

Equipped with numerous algorithms for deep learning and analysis, the Al Box is a cost-effective Al computing product, which is able to recognize detected objects precisely and immediately. Therefore, the Al Box is a solution platform for the creation of deep learning capable of realizing Al applications, such as Face Recognition, Human-Vehicle Control and Perimeter Alert, etc.

DATASHEET

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KEY FEATURES

Scalability of Connectivity

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

Intelligent Applications

Clientele Classification & Identity Management

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



Over-crowd Management

Regional People Counting, Entrance & Exit People Counting.



Alert_Alarm Management

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



Objects Management Sundry Detect, Goods Forget, Goods Guard.





Milesight AI Box



Model	BX208-A						
System Parameters							
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							
	• Face-Human & Recognition: (full load maximum 8 channels): face capture, face recognition, face						
	attributes, 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 vehicle binding						
	 Diagnosis_Alarm: (full load maximum 8 channels): Image_Cover_Alert 						
Working mode: multi-algorithm parallel,	• Alert_Alarm: (fully loaded 8 channels, 4 sub-rules per channel): Fall, Smoke, Call, Watch Phone,						
configurable by channel	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): Sundry_Stack, Goods_Guard,						
	Goods_Forget						
	Headcount_Alarm: (fully loaded 8 channels, 2 sub-rules per channel): Head_Count, Cross_Line						
	Note:						
	Functional compatibility of AI Box with Milesight VMS Enterprise depends on the specific version						
	implementation.						
Papart	Support face capture, face recognition, face attributes, human body, motor vehicle, non-motor vehicle						
Report	attributes, and alert alarm analysis results reporting.						
Accuracy	Face: face capture rate \geq 99%, false capture rate < 1%, recognition pass rate: >99.5%, recognition false						
	rate: < 0.5%.						
	Human body: human body capture rate \geq 95%, false catch rate < 1%.						
	Motor vehicle: motor vehicle capture rate \geq 90%, false catch rate < 1%.						
	Non-motor vehicle: non-motor vehicle capture rate \geq 95%, false catch rate < 1%.						
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						



Milesight AI Box



1 x USB 2.0 and 1 x USB 3.0						
2-way						
1						
1						
1						
System capabilities						
Employee passage at the entrance; List control and identification of key personnel, alarm, stranger						
identification, etc.						
Face library capacity: 64 face libraries, total 300,000 face pictures.						
Capture of face, human body, motor vehicle and non-motor vehicle, etc., attribute analysis.						
TCP/UDP/HTTP/MULTICAST/DHCP/FTP/NTP/HTTPS/RTSP, etc.						
Supports three modes: multiple access setting, load balancing, and primary/standby mode.						
It can query, search and display the capture information of face, human body, motor vehicle and						
non-motor vehicle.						
-20°C \sim +60°C						
-20°C \sim +60°C						
10% \sim 90%RH, non-condensing						
DC12V±10%, 3.33A						
179×150×42 (mm)						
1Кд						
2 Years						

Rule Setting

	Algorithm Pockets Management							
Algorithm Pocket	Face-Human	Diagnosis	Structure	Alert	Goods	Headcount		
BX108-A	8*1	8*1	8*1	8*4 sub-rules	8*2 sub-rules	8*2 sub-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_Ala rm(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.

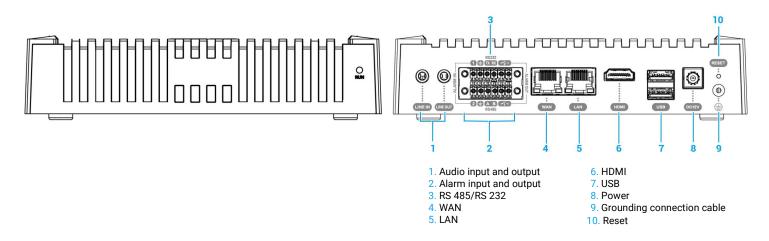


Milesight Al Box



Interfaces

BX208-A



Device Connection Topology

