

DS-IE2016-SU/BA-K2 Abnormal Event Analysis Server



- Indoor Event Analysis: Supports real-time detection for events such as climbing, working status (absence, sleeping), overtime loitering, sudden spikes in sound intensity, abnormal headcount, physical conflicts, standing detection, regional headcount, Using mobile phone, uniform compliance, falling down, and people counting.
- Street Event Analysis: Supports real-time detection for running, physical conflicts, people gathering, and persons falling down.
- Perimeter Protection: Supports real-time detection and alerts for line crossing, area intrusion, entering/exiting specific zones, and loitering.
- Trend Event Analysis: Supports real-time detection for People Density Analysis, regional people counting, People Counting.
- AI Open Platform Algorithms Delivers real-time detection and alerts for events based on detection, dual-detection, classification, and hybrid algorithms trained on the open platform.
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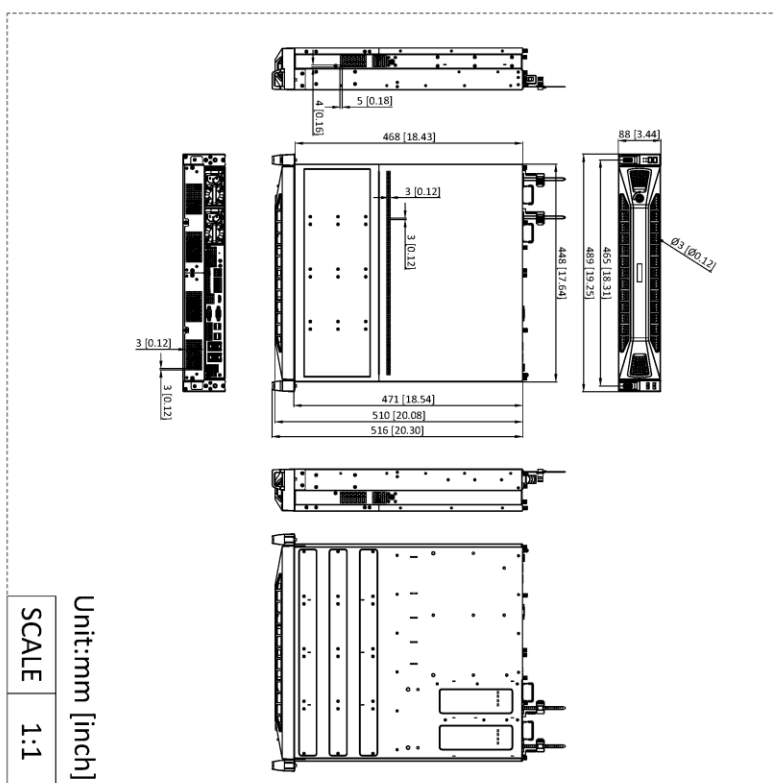
▪ Specification

Product Performance	
Algorithm Type	Event detecting algorithms includes: (1) Indoor Event: Supports real-time detection for events such as climbing, working status (absence, sleeping), overtime loitering, sudden spikes in sound intensity, abnormal headcount, physical conflicts, standing detection, regional headcount, Using mobile phone, uniform compliance, falling down, and people counting. (2) Perimeter Protection: Provides real-time detection and alerts for line crossing, area intrusion, entering/exiting specific zones, and loitering. (3) Street Event: Supports real-time detection for running, physical conflicts, people gathering, and persons falling down. (4) Trend Event: Supports real-time detection for People Density Analysis, regional people counting, People Counting. (5) Multimodal Capabilities Supports multimodal secondary recognition for scenarios like sleeping with head covered, hands under blankets, and pointing/gesturing. (6) AI Open Platform Algorithms Delivers real-time detection and alerts for events based on detection, dual-detection, classification, and hybrid algorithms trained on the open platform.
System	
Operating System	ARM FAROS
AIOP	
AIOP Picture Analysis Performance	1. AIOP Image Performance -- Small Models: - Detection and Classification Mixed: a) ≤5 MP: 16 images/s/KT4 chip; b) >5 MP to 8 MP: 9 images/s/KT4; - Multi-attribute Classification: a) ≤5 MP: 16 images/s/KT4 chip; b) >5 MP to 8 MP: 12 images/s/KT4; - Dual Detection: a) ≤5 MP: 16 images/s/KT4 chip; b) >5 MP to 8 MP: 13 images/s/KT4; 2. AIOP Image Performance -- Large Models: - Mixed Large Model: 2 MP–8 MP, 16 targets, 1 image/s/KT4 chip; - Dual Detection Large Model: 2 MP–8 MP, 4 targets, 0.6 image/s/KT4 chip. System Total Performance: 54 imgs/s

AIOP Video Analysis Performance	Performance Specifications (2MP - 5MP): Detection and classification Mixed: (1 detection + 1 classification): 120 channels of video analysis per device; Object Detection Mode: 120 channels of video analysis per device; Single-label Classification Mode: 120 channels of video analysis per device; Multi-attribute Classification Mode: 120 channels of video analysis per device; Performance Specifications (>5MP - 8MP): Detection and classification Mixed: (1 detection + 1 classification): 90 channels of video analysis per device; Object Detection Mode: 90 channels of video analysis per device; Single-label Classification Mode: 90 channels of video analysis per device; Multi-attribute Classification Mode: 90 channels of video analysis per device;
Number of AI Models	64
Scheduled Capture Analysis Performance	80-channel schedule snapshot.
Product Performance	
Event Data Storage Capacity	Event Image Storage (including AIOP event alarm and behavior capture images): 200,000 images (full coverage). Calculated based on the camera resolution and event image size.
Analysis Format	
Picture Resolution	32 × 32 to 4096 × 4096 Picture format: JPEG (JPG), TIF, BMP, PNG, gif (static); Picture size: no more than 10 MB.
Video Frame Rate	H.264 video stream、H.265 video stream (HIKVISION), Resolution: 2 MP-8 MP (4096 × 2160); Frame rate: 12/s to 30/s;
Hardware Specifications	
CPU	8 cores
GPU	2 GPU cards (6 chips), with 141 TOPS INT8 computing power and 48GB VRAM per card.
Memory	8 GB DDR4 × 2
HDD	4TB SATA pre-installed.
Network Interface	RJ45 10/100/1000Mbps Ethernet ports x4
HDD Interface	Supports up to 12 x 3.5-inch SATA HDDs
Auxiliary Interface	
Serial Interface	1 RS-232, 2 RS-485 (half-duplex)
Alarm In/Out	8/4
USB Interface	2 × USB 2.0 (Front Panel) + 4 × USB 3.0 (Rear Panel)
VGA	1
HDMI	1
Two-Way Audio	1-ch, RCA (2.0 Vp-p, 1 KΩ)
Button	Power Button (front, integrated LED), UID Button (front, integrated LED), Reset Button (rear)
LED Indicators	Power (front, integrated with power button), Status, LAN, Alarm, HDD
General	
Power Supply	AC 100V~240V , 800W(1+1)
Consumption	≤700W (without HDD)

Working Temperature	-10°C ~ + 35°C
Working Humidity	10%~90%RH
Chassis	2U
Dimension (W × D × H)	448mm(W) x 470mm(D) x 87.1mm(H)
Weight	20.410kg (With Package)
Package Dimension	655mm(W) x 595mm(D) x 260mm(H)

▪ Dimension



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