

DHI-XIS7012R-V 1VGA AI X-ray Inspection Server



(Deep · Sense

DeepSense series products adopt the most advanced AI technologies, including deep learning algorithms that primarily target people and vehicles, which provides higher flexibility and accuracy for end-users. This enables the Dahua DeepSense series to offer various advanced applications such as Face Recognition, ANPR, Metadata, People Counting, traffic data statistics, etc.

The complete lineup of Dahua DeepSense includes network (PTZ) cameras, network video recorders, servers, and platform management products. Beyond seeing the world, the power of AI allows devices to perceive the environment and understand the world in a better way.

System Overview

Dahua XIS is an AI based X-ray Inspection server which can work with security X-ray inspection machine. This device can analysis images supplied by X-ray machine and detect dangerous objects from Luggage.

With build-in deep learning module, XIS product adopt image structuring technology based on deep learning algorithms, achieving high-precision object analysis, picture storage, and management. By applying deep learning artificial intelligence, XIS help users to focus on target object, improve accuracy and efficiency of security check.

XIS can be widely used in areas for security screening, such as railway station, bus station, logistics & express, government agencies, retail, casinos, building and large events.

- Intel dual-core processor
- Built-in GPU for deep learning acceleration
- Supports dangerous object recognition
- Risk level setting and alarm triggering
- · Real time detection of security screen
- Luggage X-ray images storage and export
- Support X-ray Inspection machine networking
- Supports RAID 0/1/5/6/10
- 1 VGA video input
- 2HDMI/2VGA video output
- Redundant power

Functions

Dangerous objects recognition

Embedded image structuring technology based on deep learning algorithms, support 6 kinds of object recognition. Recognizable objects include Knives, Bottle Liquide, Umbrella, Electronic, Guns and Spray cans. Recognizable object type increases with software update.

Real-time Alarm

Support automatically detect the dangerous object in the image and popping up the results immediately. Objects can be divided into different risk level, such as High risk, Warning and Safe object. Operator can see different levels of alarms in live view.

X-ray inspection machine networking

Traditional X-ray inspection machine can only stand-alone operation. XIS product helps it networking. After networking, datacenter can receive alarm from different X-ray inspection machine. Datacenter can storage objects images, can use date to analysis. After networking, the application and management of multiple X-ray inspection machines is more convenient.

DeepSense series | DHI-XIS7012R-V

Technical Specification

RS232

RS485

Rev 001.002

1 Port

1 Port

System	
Main Processor	Intel Dual-core Processor
Memory	8GB, up to 32GB
Operating System	Embedded LINUX

Artificial Intelligence		
Object Recognition	Dangerous object recognition, display and mark dangerous packages with corresponding risk levels	
Object Category	Knives, Bottle Liquide, Umbrella, Electronic, Guns, Spray cans	
Risk level	High risk, Warning, Safe object Object category can be selected into risk levels	
Trigger Events	Alarm out, activated by object recognition risk level Voice prompt, support customized audio file upload	
Picture Storage	Package picture storage with risk level and category information	
Search Mode	Time /Date, Risk level, Object category	
Backup Mode	USB Device	
Video and Audio		
Video Input	1 channel VGA	
Resolution	1208 × 1024 @60fps, 1208 × 1024 @75fps, 1920 × 1080 @60fps	
Two-way Talk	1 audio input, 2 audio output, RCA	
Display		
Main Output	HDMI1/VGA1: 1208 × 1024 @60fps, 1208 × 1024 @75fps, 1920 × 1080 @60fps	
Video Loop Out	HDMI2/VGA2: 1208 × 1024 @60fps, 1208 × 1024 @75fps, 1920 × 1080 @60fps	
Alarm		
Alarm input	16 Channel	
Relay Output	8 Channel	
Network		
Interface	4 RJ-45 Ports (10/100/1000Mbps)	
Network Port Mode	Independent Ethernet Ports, Load Balance, Fault- Tolerance, Link Aggregation	
Network Function	TCP/IP, IPv4, NTP, DHCP, DNS, IP Filter	
Storage		
Internal HDD	12 SAS/SATA HDDs, Up to 10 TB capacity for each HDD, Independent HDD bracket, hot-swap	
HDD Mode	Single, Raid 0/1/5/6/10(Enterprise-level HDDs are recommended), Support Global HDD Hot-spare	
eSATA	1 eSATA Port (Please contact technical engineer to confirm the compatible device)	
SAS	1 miniSAS Port	
Auxiliary Interface		
USB	4 USB 3.0 Ports	

Third-party Support		
X-ray Machine Support	Nuctech, Safeway Syetem, Fiscan, etc.	
Electrical		
Power Supply	AC100V \simeq 240V, 50 \simeq 60 Hz, Hot-swap, Redundant	
Power Consumption	<60W (Without HDD)	
Environmental		
Operating Conditions	0°C ~ +45°C (+32°F ~ +113°F), 86 ~ 106kpa	
Storage Conditions	-20°C ~ +70°C (-4°F ~ +158°F), 0 ~ 90% RH	
Construction		
Dimensions	2U, 447.6mm x 558.2mm x 87mm (17.62" x 21.98" x 3.43") (without ear)	
Net Weight	14kg (30.86 lb) (without HDD)	
Installation	Standard 19-inch Rack-mounted	
Certifications		
CE	EN55032, EN55024, EN50130-4, EN60950-1	
FCC	Part 15 Subpart B, ANSI C63.4-2014	

Dimensions(mm)







