

KX-F256-24

4U 24HDDs Intelligent Video Surveillance Server

Design and specifications are subject to change without notice. Pictures in the document are for reference only, and the actual product shall prevail.



- Industry embedded micro-controller
- Max 768Mbps incoming bandwidth
- 256-channel IP video access
- Supports RAID 0/1/5/6/10/50/60
- 3 HDMI/1 VGA video output

System	
Main Processor	Industry embedded micro-controller
Operating System	Embedded Linux OS
Operation Interface	WEB (PCAPP), local GUI
AI Applications	
AI by Camera	Face detection, face recognition, video metadata, IVS (tripwire, intrusion, abandoned object, missing object, fast moving, parking detection, crowd gathering, loitering, parking, and fence-crossing), people counting, smoking detection, call detection
IVS	
Perimeter Function (AI by Camera)	256-channel
Human Face Detection	
Human Face Properties	Supports 6 properties: Gender, age range (6-level), glasses, expression (8 types), mouth mask, and beard
Face Detection Performance (AI by Camera) (Channel Number)	128-channel
Human Face Recognition	
Human Face Recognition Performance (AI by Camera) (Channel Number)	128-channel
ANPR	
Plate Database Capacity	50 plate databases with 300,000 plate numbers in total Supports allowlist and blocklist
Plate Detection Performance	64-channel
Video Metadata	
Human Body Properties	Gender, age, sleeves length, top color, bottom type, bottom color, bag, rain coat, umbrella, hat, hairstyle, direction, hold a baby, mouth mask
Vehicle Properties	Vehicle type, vehicle color, plate color, logo, calling, seatbelt, ornament, region

Non-motor Vehicle Properties	Non-motor vehicle type, non-motor vehicle color, number of passengers, umbrella, rain coat, bag, sleeve length, top color, hat, hair style, mouth mask
Metadata Performance (AI by Device) (1080P) (Channel Number)	N/A
Metadata Performance (AI by Camera) (Channel Number)	64-channel
Video Parameters	
Remote Connection	256
Network Bandwidth	RAID Incoming bandwidth: 768Mbps Recording bandwidth: 768Mbps Outgoing bandwidth: 768Mbps Single HDD Incoming bandwidth: 768Mbps Recording bandwidth: 512Mbps Outgoing bandwidth: 768Mbps
Resolution	24MP/16MP/12MP/8MP/6MP/5MP/4MP/3MP/1080P/960P/720P/D1/CIF/QCIF
Decoding Capability	2-channel 24MP/3-channel 16MP/6-channel 12MP (20fps)/7-channel 12MP (15fps)/6-channel 8MP (30fps)/12-channel 8MP (15fps)/7-channel 6MP (30fps)/9-channel 5MP (30fps)/11-channel 5MP (25fps)/12-channel 4MP (30fps)/18-channel 4MP (20fps)/19-channel 3MP (25fps)/12-channel 1080P (60fps)/24-channel 1080P (30fps)/36-channel 720P (30fps)
Video Output	1-channel VGA output, 3-channel HDMI output, VGA 1/HDMI 1 outputs the same video source. Supports 4K output
Multi-screen Display	Customized display. Max. 36-channel local live view. Max. 16-channel PCAPP live view
Third-party Support	Onvif, RTSP, Sony, Panasonic, Axis, Arecont, Pelco, Canon, Samsung
Operating System	Embedded Linux OS
Operation Interface	WEB (PCAPP), local GUI
Compression	
Video Compression	Smart H.265+/Smart H.264+/H.265/H.264
Audio Compression	G.711A/G.711U/PCM/G726

KX-F256-24

4U 24HDDs Intelligent Video Surveillance Server

Design and specifications are subject to change without notice. Pictures in the document are for reference only, and the actual product shall prevail.

Network	
Protocol	HTTP, HTTPS, TCP/IP, IPv4, RTSP, UDP, SMTP, NTP, DHCP, DNS, DDNS, P2P
Mobile Phone	DMSS
Interoperability	ONVIF (Profile S, T and G), CGI, SDK
Browser	Chrome, PCAPP, IE9 or higher, Firefox
Network Mode	NIC binding mode such as multiple-address mode, load balance, fault-tolerance, etc
Record Playback	
Multiple-channel Playback	Max. 16-channel playback
Record Search	Search video detection/manual record/IO alarm/intelligent event/all record file
Storage Medium	Internal HDD, SAS disk array enclosure
Backup Method	HDD, peripheral USB storage device
Playback Function	1. Play/pause/stop/fast forward/fast backward/reverse play/frame by frame play. 2. Full-screen, backup (clip/file), snapshot, digital zoom, audio on/off
Storage	
HDD Group	24
RAID	RAID0/1/5/6/10/50/60
Storage Pool	N/A
Alarm	
General Alarm	Motion detect, tampering, local alarm
Anomaly Alarm	IPC offline alarm, storage error, HDD full, IP conflict, MAC conflict, login lock, fan malfunction
Intelligent Alarm	Human face detection, human face recognition, video metadata (person/vehicle/non-motor vehicle), IVS, plate recognition, people counting, smoking, call
Alarm Linkage	Record, picture storage (full image), local external alarm output, IPC external alarm output, access & control, audio prompt, buzzer, log, preset, email
Peripheral Interface	
Audio Input	1-channel(reserved)
Audio Output	1-channel, speaker output, audio linkage output
Alarm Input	16-channel
Alarm Output	8-channel
Internal HDD	24 slots, SATA3.0/SAS. Max.16T/HDD
eSATA	1 port
SAS	2 SAS3.0 ports
RS-232	1 port, for debug or transparent COM data
RS-485	1 port, control peripheral PTZ and so on. Supports various protocols
USB	4 ports. 2 USB2.0 port at the front panel and 2 USB3.0 port at the rear panel

HDMI	3 ports; support 4K output
VGA	1 port
Network	4 RJ-45 10/100/1000Mbps self-adaptive Ethernet ports
Power	1 port
PoE	N/A
General Parameters	
Power Supply	AC100-127V/AC200-240V 50/60Hz
Power Consumption	120W (without HDD, idling) 408W (all HDDs connected)
Net Weight	17 kg (37.48 lb)
Gross Weight	18 kg (39.68 lb)
Dimensions	Chassis: 446 mm × 514.5 mm × 175 mm (17.56 " × 20.21 " × 6.89 ") Max. size: 482.6 mm (with hanger) × 514.5 mm × 175 mm (with feet mat) (19.00 " × 20.26 " × 6.89 ")
Packaging Dimensions	689 mm × 779 mm × 552 mm (27.13 " × 30.67 " × 21.73")
Operating Temperature	0 °C to +45 °C (+32 °F to +113 °F)/10%RH–90% RH
Storage Temperature	0 °C to +40 °C (+32 °F to +104 °F)/30%RH–85% RH
Operating Humidity	10%–90%
Storage Humidity	30%–85%
Operating Altitude	5000 m (16404.20 ft)
Installation Mode	Desktop/rack
Dimensions(mm[inch])	

KX-F256-24

4U 24HDDs Intelligent Video Surveillance Server

Design and specifications are subject to change without notice. Pictures in the document are for reference only, and the actual product shall prevail.

