

# KX-F128FR-2C

## 2U 8HDD Intelligent Video Surveillance Server

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- Industry embedded micro-controller
- Max 400Mbps incoming bandwidth
- 128-channel IP video access
- Up to 32-channel perimeter protection
- Up to 16-channel face recognition with normal IPC
- Up to 40-channel face recognition with face detection IPC
- Up to 8-channel video metadata
- Up to 50 face databases with 300,000 face pictures in total
- Supports RAID 0/1/5/6/10
- 3 HDMI/2 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	Supports AI by camera function: Human face detection, human face recognition, video metadata (human/vehicle/non-motorized vehicle), perimeter protection
AI by Device	Supports AI by IVSS function: Human face detection, human face recognition, video metadata (human/vehicle/non-motorized vehicle), perimeter protection
Perimeter Protection	
Perimeter Function (AI by Device)	32-channel
Perimeter Function (AI by camera)	64-channel
Human Face Detection	
Human Face Properties	Supports 6 properties: Gender, age range (6 levels), glasses, expression (8 types), mouth mask, and beard
Face Detection Performance (AI by Device) (1080P) (Channel Number)	16-channel
Face Detection Performance (AI by camera) (Channel Number)	40-channel
Human Face Recognition	
Face Database Capacity	50 face databases with 300,000 face pictures in total
Human Face Recognition Performance (AI by Device) (1080P) (Channel Number)	16-channel with normal IP camera 40-channel with face detection IP camera (Totally 40 face pictures analyzed per second)
Human Face Recognition Performance (AI by camera) (Channel Number)	40-channel

ANPR	
Plate Database Capacity	50 plate databases with 300,000 plate numbers in total Supports black list/white list
Plate Detection Performance by ITC Camera (Channel Number)	32-channel
Video Metadata	
Human Body Properties	Top color, top type, bottom color, bottom type, cap, bag, age, gender, and umbrella
Vehicle Properties	Supports 9 properties: Plate, plate color, vehicle body, vehicle brand, driver calling, seatbelt status, decoration object in the vehicle, and vehicle registration place
Non-motorized Vehicle Properties	Supports 4 properties: Vehicle type, vehicle color, people amount, and helmet
Metadata Performance (AI by Device) (1080P) (Channel Number)	8-channel
Metadata Performance (AI by camera) (Channel Number)	32-channel
Video Parameters	
Remote Connection	128-channel
Network Bandwidth	Incoming bandwidth: 400Mbps recording bandwidth: 320Mbps outgoing bandwidth: 96Mbps
Resolution	12 MP/8 MP/6 MP/5 MP/4 MP/3 MP/ 1080P/960P/720P/D1/CIF/QCIF
Decoding Capability	5-channel 12MP (20fps)/6-channel 12MP (15fps)/ 5-channel 8MP (30fps)/10-channel 8MP (15fps)/ 6-channel 6MP (30fps)/ 8-channel 5MP (30fps)/9-channel 5MP (25fps)/ 10-channel 4MP (30fps)/15-channel 4MP (20fps)/ 16-channel 3MP (25fps)/ 10-channel 1080P (60fps)/20-channel 1080P (30fps)/ 30-channel 720P (30fps)

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Video Output	2-channel VGA output, 3-channel HDMI output, VGA 1/HDMI 1 outputs the same video source. VGA2/HDMI2 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
<b>Compression</b>	
Video Compression	Smart H.265+/Smart H.264+/H.265/H.264
Audio Compression	G.711A/G.711U/PCM/G726
<b>Network</b>	
Protocol	HTTP, HTTPS, TCP/IP, IPv4, RTSP, UDP, SMTP, NTP, DHCP, DNS, DDNS, P2P
Mobile Phone	KBView, KBView Plus
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
<b>Record Playback</b>	
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	Play, pause, stop, fast forward, fast backward, reverse play, frame by frame play Full-screen, backup (clip/file), snapshot, digital zoom, audio on/off
<b>Storage</b>	
HDD Group	12
RAID	RAID 0/1/5/6/10
Storage Pool	N/A
<b>Alarm</b>	
General Alarm	Motion detect, tampering, local alarm
Anomaly Alarm	IPC offline alarm, storage error, HDD full, IP conflict, MAC conflict, login lock, AI module temperature alarm, AI module offline, fan malfunction
Intelligent Alarm	Human face detection, human face recognition, video metadata (person/vehicle/non-motorized vehicle), perimeter protection (intrusion, tripwire), plate recognition
Alarm Linkage	Record, snapshot (full image), local external alarm output, IPC external alarm output, access & control, audio prompt, buzzer, log, preset, email

<b>Peripheral Interface</b>	
Audio Input	1-channel, RCA port (reserved)
Audio Output	2-channel, RCA port (reserved), speaker output, audio linkage output
Alarm Input	16-channel
Alarm Output	8-channel
Internal HDD	8 slots, SATA3.0. Max.10T/HDD
eSATA	1 port (reserved)
SAS	N/A
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. 4K output
VGA	2 ports
Network	4 RJ-45 10/100/1000Mbps self-adaptive Ethernet ports
Power	1 port
PoE	N/A
<b>General Parameters</b>	
Power Supply	100V AC~240V AC 50±2%Hz
Power Consumption	43W (Without HDD, idling)
Net Weight	8.55 kg (18.85 lb)
Gross Weight	10.9 kg (24.03 lb)
Dimensions (W × L × H)	Chassis: 439.7 mm × 446.2 mm × 89 mm (17.31 " × 17.57 " × 3.50 ") Max. size: 481.7 mm (with hanger) × 446.2 mm × 90.8 mm (with feet mat) (18.96 " × 17.57 " × 3.57 ")
Packaging Dimensions (W × L × H)	With Packaging: 562 mm × 599 mm × 235 mm (22.13 " × 23.58 " × 9.25 ") Protection box: 491 mm × 584 mm × 631 mm (19.33 " × 22.99 " × 24.84 ")
Operating Conditions	0 °C to +45 °C (+32 °F to +113 °F)/10%RH~90% RH
Storage Conditions	0 °C to +40 °C (+32 °F to +104 °F)/30%RH~85% RH
Operating Altitude	5000 m (16404.20 ft)
Installation Mode	Desktop/rack

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#### Dimensions(mm[inch])

