KBVISION

KX-EDA4K916128ZN2-R

64/128 Channel 3U Network Video Recorder

- New 4.0 user interface
- 16-channel decoding @1080p (30 fps); self-adaptive decoding capability
- Access, storage or forwarding at 384 Mbps
- Simultaneous video output for VGA and HDMI1; 4K heterogeneous output for the 2 HDMI ports
- Multiple data mode such as Raid0, Raid1, Raid5, Raid6, and Raid10
- Remote configuration and management of IPCs, such as setting parameters, acquiring information and upgrading IPCs of the same model in batches
- AI-by-camera functions such as perimeter protection, face detection and recognition, SMD Plus, video metadata, ANPR and 3D behavior analysis
- N+M cluster. When the host fails, the standby device will continue to record; once the host recovers, video recorded on the standby device will be transmitted back

Cluster	Face Detection	Motor Vehicle Attribute	Non-motor Vehicle Attribute	Perimeter Protection	IVS

Stereo Analysis	SMD Plus	RAID	HDMI

Technical Specification

System

Main Processor	Industrial embedded micro-processor
Operating System	Embedded Linux
Operation Interface	Web/local GUI

Perimeter Protection by Camera

Performance	24 channels
AI Search	Search pictures by channel, time, event type

Face Recognition by Camera

Performance	24 channels
Face Attributes	6 attributes: Gender, age, glasses, expression, mouth mask, and beard
AI Search	Search pictures by channel, time and face attributes

SMD Plus by Camera

Performance	32 channels
AI Search	Search by target classification (Human, Vehicle)

Video Metadata by Camera

Performance	12 channels
Human Body	Top, top color, bottom, bottom color, hat, bag, gender, age, umbrella
Vehicle	Plate No., type, color, vehicle type, logo, plate color, ornament, calling, seatbelt, region
Non-motor Vehicle	Type, color, number of passengers, helmet
AI Search	Support search target video by metadata

ANPR by Camera

Performance	8 channels

Stereo Analysis by Camera

Performance	32 channels
AI Search	Search by target classification (Fall Detection, People Approach Detection, People No. Exception Detection, People Staying Detection, Violence Detection)

Video

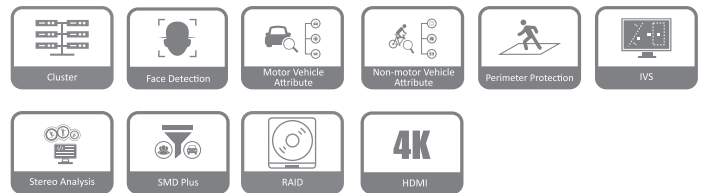|	
Access Channel	64/128
Network Bandwidth	384 Mbps for access, 384 Mbps for storage and 384 Mbps for forwarding

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

Resolution	12 MP/8 MP/6 MP/5 MP/4 MP/3 MP/ 1080p/960p/720p/D1/CIF/QCIF
Decoding Capability	16-ch@1080p (30 fps)
Video Output	VGA: 1920 × 1080, 1280 × 1024, 1280 × 720 HDMI1/HDMI2: 3840 × 2160@30 fps, 3840 × 2160 @25 fps, 1920 × 1080, 1280 × 1024, 1280 × 720 1 channel VGA output, 2 channels HDMI output, VGA and HDMI 1 homologous output, double HDMI heterogeneous output. Support 4K display for both HDMI1 and HDMI2
Multi-screen Display	1st Screen: 1/4/8/9/16/25/36/64
	2nd Screen: 1/4/8/9/16
Third Party Camera Access	Panasonic, Sony, Samsung, Axis, Pelco, Arecont, Onvif, Canon and more

Compression

Video	Smart H.265+/H.265/Smart H.264+/H.264/MPEG4/ MJPEG
Audio	AAC/MP2/G726/G729/G722/G723/G711A/G711U/PCM

Network

Network Protocol	HTTP, HTTPS, TCP/IP, IPv4/IPv6, UPnP, SNMP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE,DDNS, FTP, Alarm Server, IP Search (Support IP camera, DVR, NVS, etc.), P2P
Mobile Phone Access	iOS, Android
Interoperability	ONVIF (profile T/S/G), CGI, SDK
Browser	Chrome, IE9 or later, Firefox

Record Playback

Multi-channel Playback	1/4/9/16
Record Mode	Manual, Schedule (General, MD (Motion Detection), Alarm, MD & Alarm, Intelligent, POS)
Storage Method	Local HDD and network
Backup	Hard drive, USB device, eSATA device
Playback Function	1. Play, pause, stop, fast forward, fast backward, rewind, play by frame 2. Full screen, backup (cut/file), partially enlarge, audio on/off

Storage

Disk Group	Support
Raid Support	RAID 0/1/5/6/10

Alarm

General Alarm	Motion detection, privacy masking, video loss, local alarm, PIR alarm, IPC alarm
Anomaly Alarm	Camera offline, storage error, full storage, IP conflict, MAC conflict, login lock, network security anomaly

Intelligent Alarm	Perimeter protection, face detection, face recognition, SMD, video metadata (human, motor-vehicle, non-motor vehicle), ANPR, people counting, stereo analysis, crowd distribution, heatmap,video quality diagnosis
Alarm Linkage	Record, snapshot, IPC external alarm output, buzzer, log, preset, email

External Port

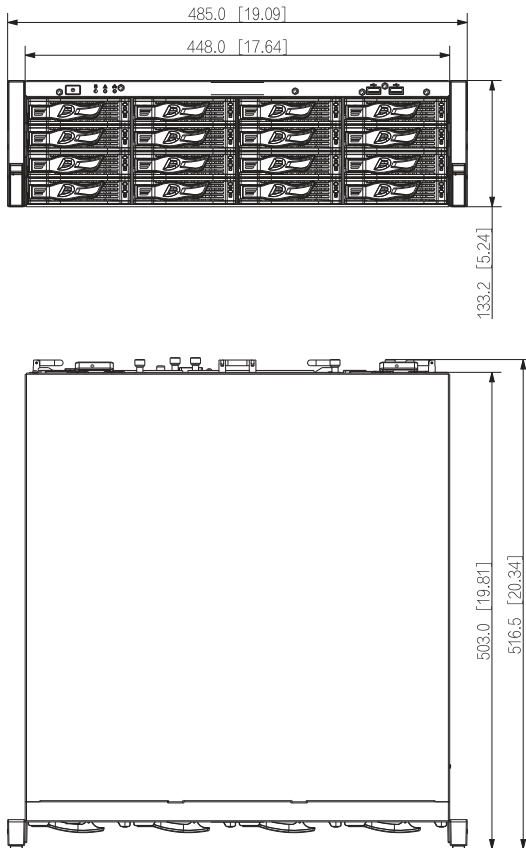|	
Audio Input	1 channel, RCA connector
Audio Output	1 channel, RCA connector
HDD	16 SATA III ports, up to 10 TB for a single HDD SATA 7.2K SAS 10K, SAS 15K, NL-SAS 7.2K
Alarm Input	16 channels
Alarm Output	8 channels
eSATA	1 eSATA
Support	SAS, FC(converter), IP iSCSI/CIFS/NFS/FTP/SMB
RS-232	1 channel, used to debug and pass through serial data
RS-485	1 channel, used to control PTZ, and it supports multiple protocols
USB	2 front USB 2.0 ports, 2 rear USB 3.0 ports
HDMI	2
VGA	1
Network	6 in total, 4 × RJ45 10/100/1000 Mbps self-adaptive Ethernet ports and 2 × 1000 Mbps optical port

General Parameter

Power Supply	Redundant, AC100V–240V, 50–60 Hz
Power Consumption	< 51 W (Without HDD)
Net Weight	19.1 kg (42.1 lb) (Without HDD)
Gross Weight	28.5 kg (62.8 lb) (Without HDD)
Product Dimensions	485 mm × 516.5 mm × 133.2 mm (W × L × H) 19.09 inch × 20.34 inch × 5.24 inch (W × L × H)"
Package Dimensions	648 mm × 723 mm × 445 mm (W × L × H) 25.51 inch × 28.46 inch × 17.52 inch (W × L × H)
Operating Conditions	−10°C to +55°C (+14°F to +131°F), +35°C (+95°F) when raid enabled
Storage Conditions	0°C to +40°C (+32°F to +104°F)
Operating Humidity	10%–93% (RH)
Storage Humidity	30%–85% (RH)
Operating Altitude	3000 m (9843 ft)

Dimensions (mm[inch])

Panels