

LSX4CH-4K-I2

4+4 Channel Penta-brid 4K-N/5MP Mini 1U Digital Video Recorder

System Overview

LSX4CH-4K-I2 is the next generation XVR offering HD analog camera resolution abilities up to 8MP. The XVR supports penta-brid access technology so cameras with formats like HD CVI, AHD, TVI, CVBS and IP can easily integrate with this XVR. To add even more value the 4 channel XVR will allow for 4 additional channels to be used for IP cameras. So, 8 channels total 4 coaxial input and 4 that can be added from existing network up to 8MP.

Great cost effective design is perfect for applications like residential and light commercial.

Features

- H.265+/H.265/H.264+/H.264
- Support HD CVI/AHD/TVI/CVBS/IP video inputs
- Max 8 channels IP camera inputs, each channel up to 8MP (Note max bandwidth)
- Max 64Mbps Incoming Bandwidth
- Perimeter Protection and SMD Plus
- Up to 2 channels video stream, (analog channel) human face recognition)



Functions

Smart Codec, H.265+ can reduce up to 90% bit rate and storage requirements without having to invest in new cameras.

The XVR can auto recognize the signal of a camera without any setting. So, HD analog formats like CVI/AHD/TVI/CVBS can be added automatically.

The XVR will support up to 8MP/4K HD resolution IPC input for recording and live viewing.

Smart Motion detection (SMD) is an intelligent algorithm and can effectively recognize target types like Cars and Humans and ignore other types of motion like trees, rain, animals etc. This allows for more efficient alarm triggers.

Face detection is a type of technology that allows a variety of applications to search or identify individuals. * The Face Recognition is conflicted with SMD Plus and Perimeter Protection.

Perimeter Protection can automatically filter out false alarms caused by animals, rustling leaves, bright lights, etc.

AI search can extract and classify person and vehicle from massive video data, easy for end users to trace historical information and analyze. Person & Vehicle optional for playback to achieve quick target search saving time.

Specifications

System

Main Processor	Embedded processor
Operating System	Embedded LINUX

Perimeter Protection

Performance	2 channels, 10 IVS for each channel
Object classification	Human/Vehicle secondary recognition for tripwire and intrusion
AI Search	Search by target classification (Human, vehicle)

Face Recognition

Performance	Max 8 face pictures/sec processing 2 channels video stream face recognition, only support analog camera
Stranger Mode	Detect strangers faces (not in device face database) Similarity threshold can be set manually.
AI Search	Up to 8 target face images search at same time, similarity threshold can be set for each target face image.
Database Mgt.	Up to 10 face database with 20,000 face images in total. Name, gender, birthday, address, certificate type, certificate No., countries & regions and state can be added to each face picture.
Database Application	Each database can be applied to video channels independently.
Trigger Events	Buzzer, Voice Prompts, Email, Snapshot, Recording, Alarm Out, PTZ Activation, etc.

SMD Plus

Performance	4 channels
AI Search	Search by target classification: (Human, Vehicle)

Display

Interface	1 HDMI, 1 VGA
Resolution	HDMI: 3840x2160, 1920x1080, 1280x1024, 1280x720 VGA: 1920x1080, 1280x1024, 1280x720
Multi-screen Display	When IP extension mode not enabled: 1/4 When IP extension mode enabled: 1/4/8/9
OSD	Camera title, Time, Video loss, Camera lock, Motion detection, Recording

Video Detection and Alarm

Trigger Events	Recording, PTZ, Tour, Video Push, Email, FTP, Snapshot, Buzzer and Screen Tips
Video Detection	Motion Detection, MD Zones:396 (22x18), Video Loss and Tampering and Diagnosis
Alarm Input	N/A
Relay Output	N/A

Playback and Backup

Playback	1/4
Search Mode	Time/Date, Alarm, MD and exact Search (accurate to second)
Playback Function	Play, Pause, Stop, Rewind, Fast play, Slow Play, Next File, Previous File, Next Camera,

	Previous Camera, Full Screen, Repeat, Shuffle, Backup Selection, Digital Zoom
Backup Mode	USB Device/Network

Storage

Internal HDD	1 SATA Port, Up to 10TB capacity
eSATA	N/A

Auxiliary Interface

USB	2 USB Ports (2 USB 2.0)
RS232	N/A
RS485	1 Port, for PTZ Control

Audio and Video

Analog Camera Input	4 Channel , BNC
HDCVI Camera	4K, 6MP, 5MP, 4MP, 1080P@25/30fps, 720P@50/60fps, 720P@25/30fps
AHD Camera	4K, 5MP, 4MP, 3MP, 1080P@25/30, 720P@25/30fps
TVI Camera	4K, 5MP, 4MP, 3MP, 1080P@25/30, 720P@25/30fps
CVBS Camera	PAL/NTSC
IP Camera Input	4+4 Channel, each channel up to 8MP
Audio In/Out	1/1, RCA
Two-way Talk	Reuse audio in/out, RCA

Recording

Compression	AI Coding/ H.265+/H.265/H.264+/H.264
Resolution	4K, 6MP, 5MP, 4K-N, 4MP, 3MP, 4M-N, 1080P, 720P, 960H, D1, CIF
Record Rate	Main stream: 4K(1~7fps); 6MP(1~10fps); 5MP(1~12fps); 4K-N,4MP/3MP(1~15fps) 4M-N/1080P/720P/960H/D1/CIF(1~25/30fps) Sub stream:960H(1~15fps); D1/CIF(1~25/30fps)
Bit Rate	32Kbps ~ 6144Kbps Per Channel
Record Mode	Manual, Schedule, (General, Continuous), MD (Video Detection, Motion Detection, Tampering, Video Loss), Alarm, Stop
Record Interval	1 ~ 60 min (default: 60 min), Pre-record: 1 ~ 30 sec, Post-record 10~ 300 sec
Audio Compression	AAC (only for the 1 st channel), G.711A, G711U PCM
Audio Sample Rate	8KHz, 16 bit Per Channel
Audio Bit Rate	64Kbps Per Channel

Network

Interface	1 RJ-45 Port (100 M)B
Network Function	HTTP, HTTPS, TCP/IP, IPv4/IPv6, UPnP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE, DDNS, FTP, Alarm Server, P2P, IP Search
Max. User Access	128 users
Smart Phone	iPhone, iPad, Android
Interoperability	ONVIF 16.12, CGI Conformant

Electrical

Power Supply	DC12V/2A
Power Consumption	<7W (Without HDD)

Environmental

Operating Conditions -10°C ~ +55°C (+14°F ~ +131°F), 10~90% RH

Storage Conditions -20°C ~ +70°C (-4°F ~ +158°F), 0 ~ 90% RH

Construction

Dimensions Compact 1U, 325mm x 257mm x 55mm
(12.8" x 10.11" x 2.17")

Net Weight 1.2kg (2.7 lb.) (without HDD)

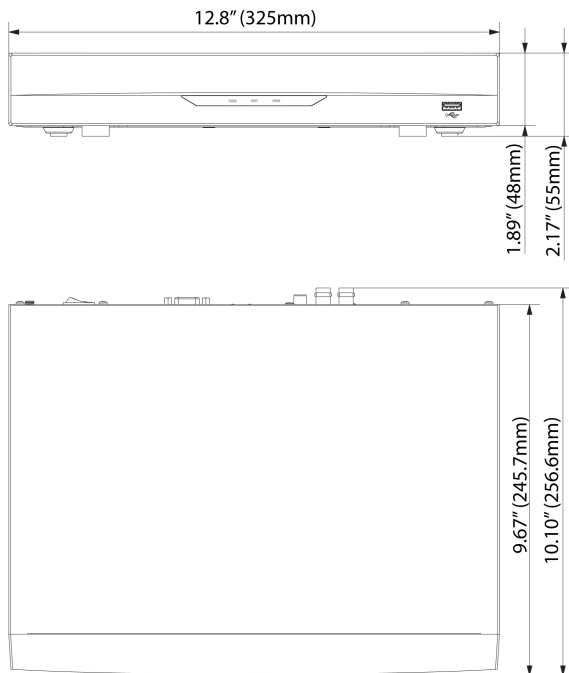
Gross Weight 1.9kg (4.2 lb.)

Certifications/Drivers

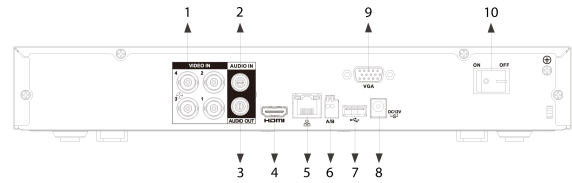
Certifications CE, FCC, UL

Drivers/Profiles

Dimensions



Panel



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|---|--------------------------|----|--------------------|
| 1 | VIDEO IN | 6 | RS485 Interface |
| 2 | AUDIO IN, RCA Connector | 7 | USB Interface |
| 3 | AUDIO OUT, RCA Connector | 8 | DC 12V Power Input |
| 4 | HDMI Interface | 9 | VGA Interface |
| 5 | Network Interface | 10 | Power Switch |



ZM090120 Design and specifications are subject to change without notice