

X5 Mainstream Series DVR, 4K 16 Channel

X52-16KA



Key Features

- 16 Analog Channels or 32 IP Channels
- Up to 8MP Cameras (Max. Incoming/Recording Bandwidth: 128 Mbps)
- Analytics by Recorder¹: Intelligent Motion Detection (iMD), Face Detection, Video Content Analytics (VCA), Face Recognition,
- Up to 16 TB Internal Storage, Two (2) SATA Ports

Certifications and Compliance

- NDAA Compliant
- FCC

Learn More



Learn more about this product's key technologies.

Overview

The **X52-16KA** is a 16-channel 4K analytics hybrid digital video recorder supporting CVI, AHD, TVI, CVBS, and IP video inputs, recording at up to 8MP across analog channels. It is built for hybrid deployments that combine existing HD-over-coax cameras with IP cameras on a single recorder.

Key Technologies

Analytics by Recorder¹ includes Intelligent Motion Detection (iMD), Video Content Analytics (VCA - Line Crossing and Intrusion), Face Detection, and Face Recognition. The DVR processes the video and creates the metadata that is encoded with the video on the DVR. This enables the DVR to create smarter video from any camera for the end-user to ease their video searching, authentication and video capabilities.

LumiViewer streamlines security management by providing real-time surveillance, playback of historical footage, and instant alarm notifications. With features like device sharing, an alarm hub for safety alerts, visual intercom for video calls and door control, and remote access management, LumiViewer ensures comprehensive and efficient monitoring. The platform is available for desktop and mobile devices.

1. Only a limited amount of channels support Analytics by Recorder on X5 series NVRs. Only one Intelligent Mode can be selected at a time. . IP channels do not support Analytics by Recorder or any built-in camera analytics. Enabling one (1) or more IP channels will disable all analytics on all analog channels.

Technical Specifications

Video

Video Input	Analog Channels: 16 Channels IP Channels: 32 Channels ²
Video Compression	H.265, H.264
Recording Resolutions	8MP, 6MP, 5MP, 4MP, 3MP, 1080P, 720P, 960H, D1, CIF
Output Resolutions	HDMI (4CH): 4K(3840 × 2160), 1920 × 1080, 1280 × 1024 VGA (2CH): 1920 × 1080, 1280 × 1024
	Simultaneous Mode - HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024 - VGA: 1920 × 1080, 1280 × 1024
	Spot Output Mode - HDMI: 1920 × 1080, 1280 × 1024 - VGA: 1920 × 1080, 1280 × 1024
Live View/Playback Resolutions	8MP, 6MP, 5MP, 4K-N, 4MP, 3MP, 4M-N, 1080P, 720P, 960H, D1, CIF

2. To add more than 16 IP cameras, analog channels need to be converted to IP channels.

Decoding

Format	Smart H.265+, Smart H.264+, H.265, H.264, H.264H, H.264B
Capability	- CVI: 4K (30 fps), 6MP (20 fps), 5MP (25 fps), 4MP (30 fps), 1080P (30 fps), 720P (30 fps), 720P (60 fps) - AHD: 4K (15 fps), 5MP (20 fps), 4MP (30 fps), 3MP (30 fps), 1080P (30 fps), 720P (60 fps) - TVI: 3MP (30 fps), 1080P (30 fps), 720P (60 fps)
Live View Window Division	IP Expansion On: 1, 4, 8, 9, 16, 25, 32 IP Expansion Off: 1, 4, 8, 9, 16
Auxiliary Port Window Division	IP Expansion On: 1, 4, 8, 9, 16, 32 IP Expansion Off: 1, 4, 8, 9, 16
Synchronous Playback	16 Channels

Supported Analytics by Recorder³

Intelligent Motion Detection	Analog: 16 Channels
Video Content Analytics (VCA) <i>Line Crossing and Intrusion</i>	Analog: Eight (8) Channels (Up to 10 Rules per Channel)
Face Detection	Analog: Two (2) Channels (Up to 12 Images at 1080p)
Face Recognition	Analog: Two (2) Channels Up to 10 Face Picture Libraries (Max. 20,000 Pictures Total)

3. IP channels do not support Analytics by Recorder or any built-in camera analytics. Enabling one (1) or more IP channels will disable all analytics on all analog channels.

Interface

SATA	Two (2) Ports
HDD	Up to 16 TB per HDD
Network	One (1) RJ-45 Self-Adaptive Ethernet (10/100/1000/2500 Mbps)
USB	Front Panel: One (1) x USB 2.0 Rear Panel: One (1) x USB 3.0
Serial Port	One (1) x RS-485
Alarm	Input: 16 Channels Output: Three (3) Channels
Audio	Input: 4-Channel RCA Input, 16-Channel BNC Input (Coaxial Audio) Output: One-Channel RCA Output

Network

Bandwidth	- Incoming/Recording: 128 Mbps - Outgoing: 128 Mbps
Protocol	HTTP, HTTPS, TCP/IP, IPv4/IPv6, UPnP, SNMP, RTSP, UDP, SMTP, NTP, DHCP, DNS, DDNS
Interoperability	ONVIF, RTSP
Client	LumiViewer, LumiViewer Mobile App

Electrical

Power Supply	12 VDC, 5 A
Power Consumption	< 15 W (HDD Not Included)

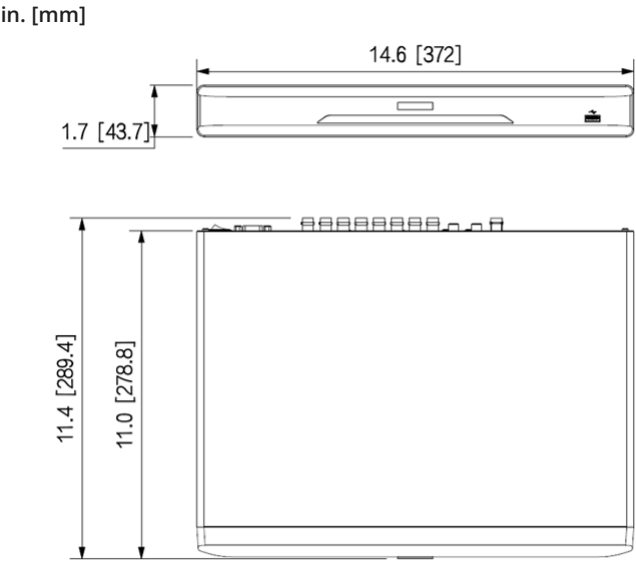
Construction

Installation Method	Rack- or Desktop-Mount
Housing	1U
Weight	2.03 kg (4.5 lb) Without HDD
Operating Temperature	-10 °C to 55 °C (14 °F to 131 °F) 10% to 93%
Dimensions (W × D × H)	372.0 × 289.4 × 43.7 mm (14.6 in. × 11.4 in. × 1.7 in.)

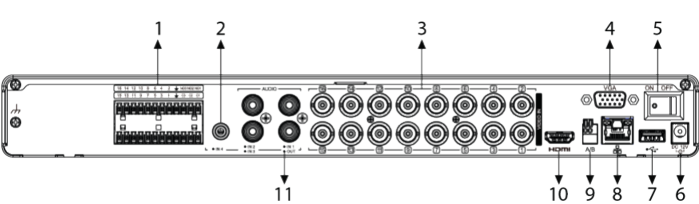
Certifications and Compliance

Certifications	FCC
Compliance	NDA

Dimensional Drawing



Back Panel



1	Alarm Input/Output	7	USB Port
2	AUDIO IN, RCA Connector	8	Network Port
3	Video Port	9	RS-485 Port
4	VGA Port	10	HDMI Port
5	Power Switch	11	AUDIO OUT, RCA Connector
6	Power Input		

Packaging Information

Included Components

Below are the included components when purchasing the product.

Quantity	Component
1	X5 Series DVR
1	Power Cable, USA Plug, Type B, 3 Pin Plug, 15 A, 120 VAC
1	Power Adapter
1	USB Mouse
2	SATA Data Cable
1	SATA Power Cable
1	Set of Anti-Slip Pads
1	I/O Terminal Block
2	Mounting Bracket
1	CAT5E Ethernet Cable
1	Quick Start Guide
1	Regulatory Information