LGNXK16N12T2T

16 Channel 4K NVR Kit with 2 TB HDD and 12 × 4.1MP Turret Network Cameras



16 CH	12× 4.1MP	2 TB	16 PoE	4K
NVR	Turrets	HDD	PoE Ports	HDMI Output

In Short

This complete kit combines a 16-channel 4K PoE network video recorder with a pre-installed 2 TB hard drive and twelve 4.1MP fixed lens turret network cameras. Each camera provides 4.1MP video through a 2.8 mm lens with 30 m smart IR, H.265+ compression, human and vehicle target classification, a built-in microphone and IP67 weather protection. The recorder powers the cameras through 16 independent PoE ports, offers simultaneous HDMI (up to 4K) and VGA outputs, two SATA bays (up to 14 TB each) and 4 alarm inputs, with room to add four more cameras as the site grows.

Kit Contents	
Part Number	LGNXK16N12T2T
Network Video Recorder	1 × LGNX16164KLN2T – 16 Channel 2HDD 4K PoE Network Video Recorder (Lite) (2 TB HDD pre-installed)
Network Cameras	12 × LGNXTO4IRF – 4.1MP Fixed Lens Turret Network Camera

*Design and specifications are subject to change without notice - Version 2026-11-09.

TECHNICAL SPECIFICATIONS

LGNXTO4IRF 4.1MP Fixed Lens Turret Network Camera

Camera	
Image Sensor	1/2.7” 4Megapixel progressive CMOS
Minimum Illumination	0.03 Lux at F2.0 (Colour, 30IRE); 0.003 Lux at F2.0 (B/W, 30IRE) 0 Lux (illuminator on)
Illumination Distance	30 m IR light; smart IR supported
Strobe Light	N/A
Pan / Tilt / Rotation	Pan: 0° to 360° | Tilt: 0° to 75° | Rotation: 0° to 360°

Lens	
Focal Length	2.8 mm
Aperture	F2.0
Field of View	Horizontal: 101°
	Vertical: 56°
	Diagonal: 118°
Mount	M12

Compression	
Video Compression	H.265+ / H.265 / H.264+ / H.264 / MJPEG
H.265 Codec Profile	Main Profile
H.264 Codec Profile	Base / Main / High Profile
Video Bit Rate	11 Kbps to 10 Mbps
Multiple Streams	Triple streams supported
Audio Compression	G.711A, G.711U
Audio Bit Rate	64 Kbps

Image	
Maximum Resolution	4.1 MP (2688 x 1520)
Main Stream	
50Hz: 25fps 4MP (2688 x 1520), 25fps 3MP (2304 x 1296), 25fps 1080P (1920 x 1080); 60Hz: 30fps 4MP (2688 x 1520), 30fps 3MP (2304 x 1296), 30fps 1080P (1920 x 1080)	
Sub Stream	
50Hz: 25fps 720P (1280 x 720), 25fps D1 (704 x 576), 25fps CIF (352 x 288); 60Hz: 30fps 720P (1280 x 720), 30fps D1 (704 x 480), 30fps CIF (352 x 240)	
Third Stream	
N/A	

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TECHNICAL SPECIFICATIONS

Image Settings	
Parameters	Brightness / Contrast / Saturation / Hue / Sharpness
Shutter	Auto / Manual, 1/3 s to 1/100000 s
Day / Night	IR cut filter
WDR	DWDR
Noise Reduction	2D / 3D DNR
BLC	Backlight compensation supported
HLC	Highlight compensation supported
ROI	Region of interest supported
Rotation	0°/180° (0° by default)
Smart Features	
Basic Events	Motion detection, video tampering
Smart Events	Smart Motion Detection, Line crossing, intrusion, region entrance, region exiting; alarm triggering by specified human and vehicle target types
Face Detection	N/A
Loitering Detection	N/A
People Counting	N/A
Network	
Storage	NAS (NFS, SMB/CIFS)
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, NTP, IGMP, UPnP, SMTP, UPnP-TM, P2P
Compatibility	ONVIF Profile S, Profile G, Profile T; SDK
Security	IP address filtering, basic and digest authentication for HTTP/HTTPS, TLS 1.1/1.2, WSSE, and digest authentication for ONVIF
Users	Up to 10 users
Browsers	Plug-in required live view: IE 10, IE 11; Local service: Chrome 57.0+, Firefox 52.0+
Mobile	iOS, Android
Active Deterrence	
Red/Blue Light	N/A
Sound Warning	N/A
Interface	
Network	1 RJ45 10M/100M self-adaptive Ethernet port

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On-board Storage	N/A
Microphone	Built-in microphone supported
Speaker	N/A
Audio Input / Output	N/A
Alarm Input / Output	N/A
Reset Button	N/A
General	
Operating Conditions	-40°C to 60°C (-40°F to 140°F)
Humidity	95% or less, non-condensing
Power Supply	12V DC ± 25%
PoE	PoE IEEE 802.3af
Power Consumption	Less than 4.7 W
Protection	IP67, 2KV
Material	Metal housing
Dimensions	Ø103.5 x 82.4 mm (Ø4.07” x 3.24”)
Certifications	CE FCC
LGNX16164KLN2T 16 Channel 2HDD 4K PoE Network Video Recorder (Lite)	
Video & Audio Input	
IP Video Input	16-ch, up to 12MP
Audio Input	1-ch, RCA
Video & Audio Output	
HDMI Output	1-ch, 4K (3840 × 2160) / 30Hz, 1920 × 1080 / 60Hz, 1280 × 1024 / 60Hz, 1280 × 720 / 60Hz
VGA Output	1-ch, 1920 × 1080 / 60Hz, 1280 × 1024 / 60Hz, 1280 × 720 / 60Hz
Video Output Mode	Simultaneous HDMI and VGA output
Audio Output	1-ch, RCA
Recording	
Compression	H.265+ / H.265 / H.264+ / H.264
Resolution	12MP / 8MP / 5MP / 4MP / 3MP / 1080P / 720P / D1 / CIF / QCIF
Bit Rate	64 Kbps to 10 Mbps

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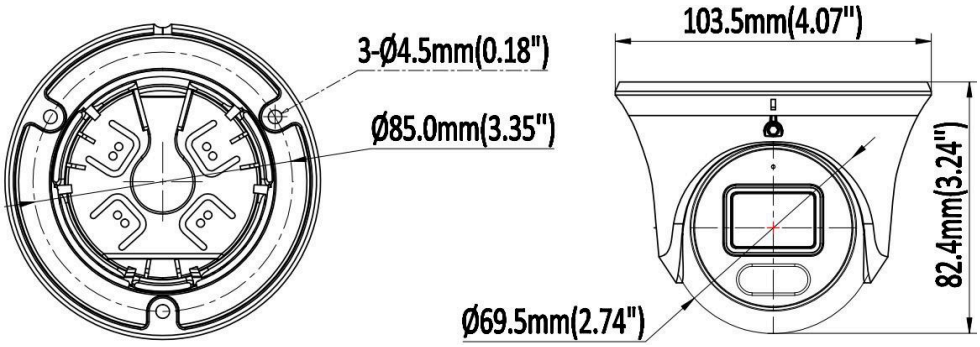
Playback & Backup	
Decoding Capability	8-ch @ 1080P
	3-ch @ 5MP
	2-ch @ 8MP
	1-ch @ 12MP
Synchronous Playback	8-ch
Playback Mode	Smart / Normal / Time Division / Label / Event / Picture / Log Playback
Backup Mode	USB Device / Network
Smart Features	
Smart Detection (by Camera)	Area Intrusion, Line Crossing, Region Entrance / Region Exiting, Fast Moving, Object Missing, Unattended Object, Loitering Detection, Parking Detection, Face Detection, People Gathering Detection, Blurred Detection, Scene Change Detection, Audio Exception Detection, Human Detection, Vehicle Detection, SMD, PP
Smart Playback	Face Detection / Line Crossing / Area Intrusion / Motion Detection / Human Detection / Vehicle Detection
Cloud Storage	Supported
Cloud Upgrade	Supported
Network	
Incoming Bandwidth	160 Mbps
Outgoing Bandwidth	80 Mbps
Ethernet	1 × RJ-45 10/100/1000 Mbps self-adaptive Ethernet interface
Protocols	HTTPS, HTTP, TCP/IP, IPv4, UPnP, RTSP, UDP, SMTP, SNMP, NTP, DHCP, DNS, IP Filter, DDNS, FTP, P2P, ONVIF
Mobile	iOS (iPhone, iPad), Android (Phone, Pad)
Hard Disk	
SATA	2 SATA interfaces
Capacity	Up to 14 TB per HDD
External Interface	
PoE Ports	16 independent 10/100 Mbps PoE Ethernet interfaces
USB Interface	Front panel: 1 × USB 2.0 | Rear panel: 1 × USB 2.0
Alarm Input	4-ch
Alarm Output	1-ch
General	
Power Supply	DC 54V, 3.33A

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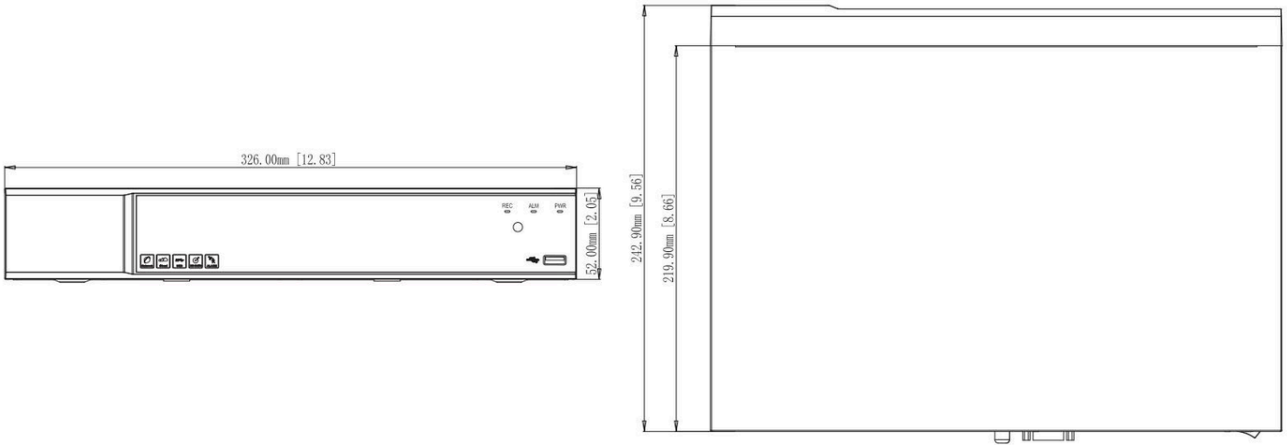
TECHNICAL SPECIFICATIONS

Power Consumption	≤ 15W (without HDD and PoE)
Operating Conditions	-10°C to +55°C (14°F to 131°F), 10% to 90% RH
Dimensions (W × D × H)	326 × 243 × 52 mm (12.83" × 9.56" × 2.05")
Weight	2.6 kg (5.73 lb)

Dimensions



LGNXTO4IRF

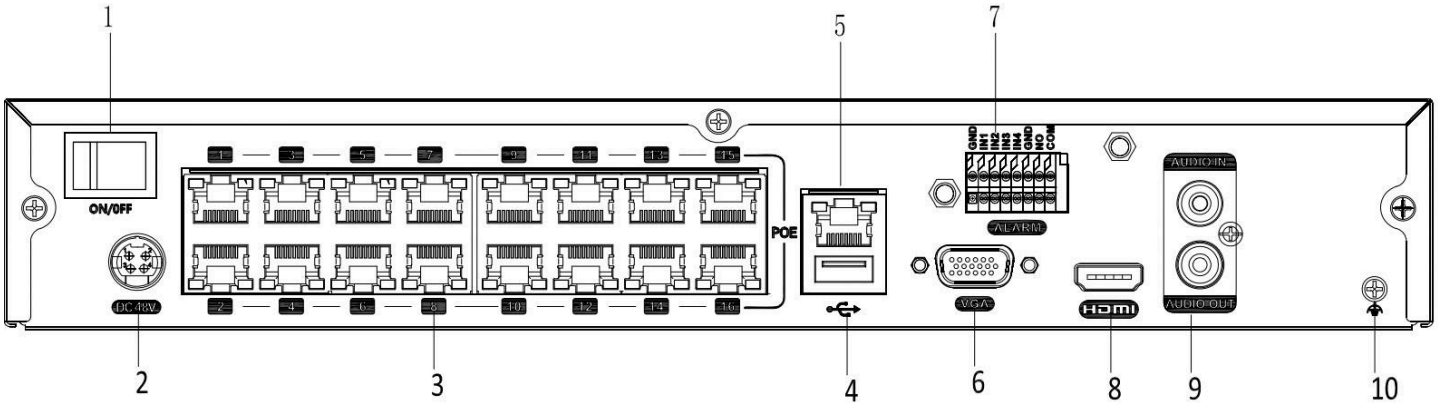


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TECHNICAL SPECIFICATIONS

Rear Panel – LGNX16164KLN



No.	Description	No.	Description
1	Power Switch	**6**	VGA Port
2	Power Input	**7**	Alarm Input
3	PoE Network Port	**8**	HDMI Port
4	USB Port	**9**	Audio IN/OUT RCA
5	Network Port	**10**	Ground

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