



Hikvision DS-7616NXI-K2/16P(E)

· Specification summary



Device class	16-ch PoE 1U K Series AcuSense 4K NVR
IP camera inputs	16 channels; not decoding or playback capacity
Incoming bandwidth	160 Mbps
Outgoing bandwidth	160 Mbps
HDMI output	1 HDMI output: 3840 × 2160 at 30 Hz; 2560 × 1440 at 60 Hz; 1920 × 1080, 1600 × 1200, 1280 × 1024, 1280 × 720 or 1024 × 768 at 60 Hz
VGA output	1 VGA output: 1920 × 1080, 1600 × 1200, 1280 × 1024 or 1280 × 720 at 60 Hz
Display output mode	HDMI and VGA independent output
Video formats	H.265 / H.265+ / H.264 / H.264+
Recording resolutions	16 MP / 12 MP / 8 MP / 6 MP / 5 MP / 4 MP / 3 MP / 1080p / UXGA / 720p / VGA / 4CIF / DCIF / 2CIF / CIF / QCIF; 16 MP is only available for channel 1.
Synchronous playback	16 channels; distinct from resolution-specific decoding limits
Decoding with AI on	AI on: 2 × 12 MP / 4 × 8 MP / 5 × 6 MP / 8 × 4 MP / 10 × 3 MP / 16 × 2 MP; each listed alternative at 30 fps, not additive simultaneous totals
Decoding with AI off	AI off: 3 × 12 MP / 5 × 8 MP / 6 × 6 MP / 10 × 4 MP / 13 × 3 MP / 16 × 2 MP; each listed alternative at 30 fps, not expansion of camera inputs
Recorder-side analytics	Facial recognition / perimeter protection / motion detection 2.0 / AcuSearch; selected configuration and stream limits apply
Camera-side analytics	Facial recognition / perimeter protection / motion detection 2.0 / ANPR from compatible cameras; not all onboard NVR analytics
AcuSearch by camera	All channels only with a compatible camera that has AcuSearch enabled
Perimeter analysis by recorder	Human/vehicle analysis with HD network cameras using H.264/H.265: up to 4 MP, 2 channels; 5 to 8 MP, 1 channel
Perimeter analysis by camera	All channels only with compatible camera-side analytics enabled
Face functions	Face picture comparison / human face capture / face picture search; function-specific limits apply
Face analysis capacity	Up to 4 MP: 2 channels; 5 to 8 MP: 1 channel; not the picture-comparison count
Face picture comparison	8 channels; not the face-video analysis capacity or input-camera count
Face library limits	Up to 16 libraries and 50,000 face pictures in total; each picture ≤ 1 MB; total capacity ≤ 1 GB
Motion detection 2.0 by recorder	All channels up to 4 MP; up to 8 MP only when enhanced SVC mode is enabled; human/vehicle analysis
Motion detection 2.0 by camera	All channels only with compatible camera-side detection enabled

IP speaker inputs	4 network-speaker channels; not four physical RCA ports
Audio output reference	1-channel RCA, linear, 1 kΩ; confirm actual audio wiring and equipment
Two-way audio input reference	1-channel RCA, 2.0 Vp-p, 1 kΩ, using the audio input; not a built-in speaker claim
Stream types	Video / video and audio; actual input stream determines available audio
Audio compression	G.711ulaw / G.711alaw / G.722 / G.726 / AAC / MP2L2
Remote connections	128 as listed; actual connections remain within stream and bandwidth limits
Integration references	ONVIF profiles S/G / SDK / ISAPI; confirm exact camera and firmware, not universal compatibility
Network protocol references	TCP/IP / DHCP / IPv4 / IPv6 / DNS / DDNS / NTP / RTSP / SADP / SMTP / SNMP / iSCSI / ISUP / UPnP / HTTP / HTTPS; listing is not an enabled-by-default or security guarantee
LAN interface	1 RJ-45 interface at 10/100/1000 Mbps; separate from any camera PoE ports
PoE interfaces	16 RJ-45 camera ports at 10/100 Mbps; not Gigabit uplink ports
Total PoE budget	≤ 200 W shared across camera ports; not per-port output or recorder input consumption
PoE standards	IEEE 802.3af/at; confirm camera load, cabling and power allocation
SATA interfaces	2 SATA interfaces; drives not assumed supplied
Capacity per HDD	Up to 16 TB per HDD; not guaranteed total usable storage or recording days
Alarm inputs and outputs	4 inputs / 1 output; confirm actual supplied hardware and wiring
USB interfaces	Front: 1 × USB 2.0; rear: 1 × USB 2.0
Cooling fan	Fan support listed; verify the selected hardware and operating conditions
Recorder power input	100 to 240 V AC, 50 to 60 Hz as listed; verify actual supply configuration
Recorder consumption reference	≤ 15 W without HDD; the cited row does not state PoE off or total loaded camera-system demand
Operating temperature	-10 to 55 °C (14 to 131 °F)
Operating humidity	10% to 90%; condensation suitability is not established by this row

Specifications are summarised from the manufacturer's published information (checked 2026-10-18). They describe the cited version only. Confirm the exact model, suffix and supplied revision before ordering. ISD confirms supply, price, availability and warranty separately.

IS Distributions Sdn. Bhd., Kuching, Sarawak ·

<https://www.isdsb.com.my/product-hikvision-nvr-dvr-ds-7616nxi-k2-16p-e.html>