

## 1.0 Manufacturer

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## 2.0 Description

The NVR5104E standalone NVR is the next generation of LILIN professional PoE NVR series.

No IP addresses' configuration for cameras is needed. The NVR5104E is built-in PoE for powering PoE cameras.

The NVR5104E supports up to 4 channels Ultra HD (4K) camera recording that the Ultra High Definition, 4K or 8 Megapixels video is four times clearer than traditional 1080p.

Along with its low power consumption and all-in-one sleek design, the NVR5104E provides users a simple, affordable yet professional solution for megapixel surveillance in the mainstream markets such as SMBs, retail, hospitality, and intelligent buildings.

Manufacturer shall warrant the NVR5104E, NVR Series, to be free from defects in material and workmanship for three years from the installation date.

## 3.0 General Specifications

NVR shall support frame rate of single channel up to 1080P 60 FPS.

NVR shall support 120 FPS maximum frame rate.

NVR shall support 1 / 4 split division, sequence mode, freeze at split screen.

NVR shall support H.264 network video format.

NVR shall support 32Mbps maximum network throughput.

NVR shall support up to 64X on live and playback at digital zoom.

NVR shall support network camera, ONVIF Profile S, DVR, NVR, video encoder, Navigator.

NVR shall support CIF- 4K recording resolution.

NVR shall support manual, schedule recording.

NVR shall support recording schedule with each channel 24 hours 7 days time table, recording mode configurable.

NVR shall support automatic recording day calculator.

NVR shall support alarm event actions for motion grid, network camera event, DI.

NVR shall support IOS, Android, email, FTP, buzzer, DO alarm notification recording.

NVR shall support DI × 4 and DO × 1 with programmable condition.

NVR shall support alarm event, operation and configuration full reports exporting over HTTP or USB.

NVR shall support playback search for alarm event, operation event, system event, meta data event, time search.

NVR shall support 4ch synchronous playback display.

NVR shall support CIF - 4K playback resolution feature for live monitoring and video playback.

NVR shall support up to 1080P 60 FPS playback max frame rate

NVR shall support fast rewind 2× ~ 64× / fast forward 2× ~ 64× / step forward / slow motion 1/2 ~ 1/16 playback speed.

NVR shall support Internal HDD 1 × 3.5" HDD, up to 8TB supported.

NVR shall support S.M.A.R.T monitoring, file system de-fragmentation, IO read write error.

NVR shall support USB flash disk backup, up to 32 GB supported.

NVR shall support network backup via HTTP / FTP / network places.

NVR shall support external USB DVD/ RW

NVR shall support remote playback manager, backup, multiple NVRs file download and multi-channel playback.

NVR shall support HDMI 1.4 4K 30P / VGA 1080P.  
NVR shall support audio input of 4 ch network camera, G.711 8K.  
NVR shall support audio output of RCA × 1.  
NVR shall support network camera two way audio / IP camera 2-way audio.

NVR shall have WiFi and 4G external USB dongle supported (Certified brand only).  
NVR shall provide network ports of RJ-45 Gigabit Ethernet × 1, RJ-45 100Mbps PoE × 4 (802.3af).  
NVR shall support direct internet browser access and multiple users access.  
NVR shall support ARP / TCP/IP / UDP / HTTP / HTTPS / SMTP / SNMP / FTP / DDNS / PPPoE / NTP / RTP / RTSP / DHCP / SNMP / ONVIF Profile S protocols.  
NVR shall support PTZ protocol via HTTP / ONVIF.

NVR shall support IOS / Android.  
NVR shall support RTP UDP / RTSP TCP.  
NVR shall support Network camera plug and play via PoE port, otherwise WS-Discovery and IP Scan, automatically quick IP address setup for network cameras also available.  
NVR shall support P2P of APP scan QR Code, UID connection.  
NVR shall support Navigator.  
NVR shall provide user authentication with feature configurable and IP address blocking.  
NVR shall support Arabic, Traditional Chinese, Simplified Chinese, English, French, German, Hungarian, Italian, Japanese, Korean, Polish, Portuguese, Russian, Spanish, Turkish.

NVR shall support daylight saving, NTP, external USB GPS time sync, keyboard.  
NVR shall support record external metadata via USB to RS-232 cable, display at live and playback.  
NVR shall support remote controller addressable up to 255 NVRs (optional).  
NVR shall support mouse click, drag and scroll.

NAV shall be compliant with CE certification.  
NAV shall be compliant with FCC Class B certifications.

NVR shall provide CPU of ARM Cortex A7 Dual Core.  
NVR shall provide OS of embedded Linux Kernel 3.18.20.  
NVR shall provide WDT of hardware watchdog timer.  
NVR shall provide power supply of DC 48V 1.2A 57.6W (Max) for HDDs and cameras.  
NVR shall work within operating temperature of 0°C~ 45°C.  
NVR shall work within operating humidity of 5% ~ 80%.  
NVR shall not exceed dimensions of 360 × 316 × 60 mm.  
NVR shall not exceed weight of 2.5 kg without hard drive.

## **4.0 Installation**

All equipments shall be tested and configured based on the manufacturer guide line prior to installation  
All the products shall be updated for the latest firmware.  
All the products shall be changed for the default username and password prior to installation.

## **5.0 Environmental Green Policy**

The specified camera shall be manufactured in accordance with ISO 14001.  
The specified camera shall be compliant with the EU directives RoHS and WEEE.  
The specified camera shall be compliant with the EU regulation REACH.

END OF SECTION