

NAV 72CH Recorder

NAV16072E

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HDMI



DisplayPort



H.264 / H.265



SSD



1080P



GbE

Introduction

LILIN NAV16072E 72-channel Recorder supports all series of LILIN product such as LILIN IP cameras, PTZ, IP cameras, DVRs and NVRs. This recorder can support up to 36 channels of 1080P/3MP/4MP/5MP/8MP/12MP resolution for live display, playback and recording.

It can support up to 16 of 3.5 inch Hard disks and the failover feature is supported with dual streaming. dual monitor can support up to 36 division view at the same time. The multi-channel playback is also supported. The dual network interface cards are built-in with 2.5GbE.

NAV16072E is capable of supporting continuous and schedule recordings. Various alarm detections including motion, audio, IVS, and ANPR (Optional) for triggering various alarm outputs. NAV16072E also supports up to 1080P with 120FPS and 4K 30FPS video streams.

NAV Navigator is able to create and add permission to the groups. It supports LDAP/AD user management and works with multiple external alarm systems. It is compatible with ONVIF Profile S for the third party cameras. The corridor mode in the live image is supported which increases the monitoring area in vertical narrow and long environment.

- Up to 72 channels 1080P/3M/4M/5M/8M/12M Network streaming, recording
- Paired with AI IPCAM 72 channels
- built-in 1 × 500GB 2.5 Inch SATA SSD (OS)
- Support up to 16 × Hot-swap 3.5 Inch SATA HDD (recording)
- Support failover up to 36 channel per server
- Dual streaming decoding mode supported
- 2 monitors support up to 36 channels in total (480P 15fps)
- Support multi-channels synchronized playback (remote or local)
- Support Fisheye camera dewarping
- Built-in dual port 2.5GbE, RJ-45 × 2
- Built-in 800W 1+1 redundant PSU
- 3U dimension for rackmount cabinet

| Basic Spec | |
|-----------------------------------|---|
| Network video support | LILIN IP camera, LILIN IP camera over HTTPS, LILIN Fisheye camera, LILIN IP speed dome, LILIN DVR/ NVR, LILIN DHD recorder, NAV live streaming, P2P live streaming, ONVIF camera, manual RTSP, screen capture, USB video input, picture capture |
| Chassis | 3U Chassis |
| Network video input | Up to 72 channels 1080P / 3M / 4M / 5M / 8M / 12M |
| Network video format | H.264 / H.265 / MJPEG |
| Maximum network throughput | Upload: up to 1250Mbps, Download: up to 1250Mbps |
| Internal HDD / Swap Drive Bay | built-in 1 × 500GB 2.5 Inch SATA SSD (OS) Support up to 16 × Hot-swap 3.5 Inch SATA HDD (recording) |
| Video input | |
| Support quantity | Max. 72 channels |
| Camera name | 20 characters |
| Channel editing | Mouse drag-n-drop |
| Fisheye Dewarp Mode | Ceiling and ground mounted, 1 R One Region, 3 R10 Three Regions One Fisheye, 4 R Four Regions, 2 R1P Two Regions One Panoramic 360, 2 P Two Panoramics 180, 8 R10 Eight Regions One Fisheye, Wall mounted, 1 R One Region, 3 R10 Three Regions One Fisheye, 4 R Four Regions, 2 R1P Two Regions One Panoramic 180, 1 WP One Wall Panoramic 180, 8 R10 Eight Regions One Fisheye |
| Digital zoom | Yes, ePTZ supported |
| Privacy Mask | Supported |
| Remote monitoring | Yes, web and NAV Client |
| Video output | |
| HDMI output | 1 × HDMI Port 1.4, (4096 × 2160@24Hz) |
| DVI output | 1 × DVI-D Port, (1920 × 1080@60Hz) |
| VGA output | No support |
| DisplayPort output | 1 × DisplayPort 1.4, (4096 × 2304@60Hz) |
| Split screen | 4, 9, 16, 25, 36 |
| Dual stream technology | Multi-channel displays D1 and full screen displays 1080P / 3M / 4M / 5M / 8M / 12M resolution |
| Multi-screen | 2 monitors support up to 36 channels in total (480P 15fps) |
| Recording mode | |
| Recording mode | Alarm, motion, schedule, and manual |
| Recording schedule | 7 days × 24 hrs time table, recording mode configurable |
| Recording resolution & framerate | Max 12MP@20fps, 8MP@30fps, 5MP@30fps, 4MP@30fps, 3MP@30fps, 1080p@120fps, and ROI recording supported |
| Motion recording | 72ch |
| Alarm recording | Remote digital input, remote IVS detection, remote face detection, remote tamper detection, remote audio detection, external IO, motion detection, NAV CGI Triggering, video loss detection, speed measurement detection, ANPR detection, facial recognition, remote LPR detection, QR code detection, aida behavior detection |
| Audio recording | Yes |
| Circular recording | Yes / size customizable |
| Limited recording | Yes / days customizable |
| Failover | Supported |
| Video archiving | Yes |
| Low bitrate recording | Yes |
| Remote network NAS | Support NAS (SMB/CIFS), iSCSI |
| Playback | |
| Playback search | Date, time, Smart search, Alarm search, POS, ANPR search, Face search, Face trace search (in FR server only), Tagging search |
| Playback resolution and framerate | Max 12MP@20fps, 8MP@30fps, 5MP@30fps, 4MP@30fps, 3MP@30fps, 1080p@120fps |
| Playback speed | Fast Rewind: 1/8, 1/4, 1/2, 1X, 2X, 4X, 8X, 16X, 32X Fast Forward: 1/8, 1/4, 1/2, 1X, 2X, 4X, 8X, 16X, 32X |
| Backup / Video input | Max. 36 channels, AVI & MP4 file format supported |
| Remote video | NAV Server / Navigator Client / DVR / NVR / IP camera SD card supported up to 36 channels |
| Alarm / event | |
| Alarm management | Play audio file, send email notification, PTZ preset, digital output triggering, full screen, post alarm record, pre-alarm record, advanced alarm digital output, send customizable HTTP POST CGI URL to third party device, alarm ACK, alarm snapshot, text overlay, App cloud push notification, NCC TV wall ACK, NCC eMap Center Alarm, NCC play sound, NCC global alarm setting, all these action can be automatic or scheduled |
| Alarm recording | Pre-alarm:1 ~ 10 seconds and post-alarm: 1 sec ~ 59 minutes |
| Alarm Scheduling | Up to four alarm tables with AND logic |
| Alarm event actions | Various alarm log including video loss, stop recording, schedule, logon, operation log |
| Digital output | Controllable via IP cameras |
| Video archiving | |
| Video archiving & sync | Individual camera configurable, scheduling and instant archiving, sync recording data with NAV server / NVR / DVR / IP camera SD card. |

| Accessories | |
|-----------------------|---|
| Keyboard | PIH-931D keyboard controllable via rs-485 to usb converter for PTZ, ePTZ, and ROI features |
| Audio | PCM/G.711/AAC, two-way audio, audio recording |
| POS | Third party TCP/IP/ RS-232 / Bluetooth supported / HID USB Barcode scanner |
| Protocols | ARP / TCP/IP / RTSP / ONVIF / HTTP / HTTPS / SMTP / DNS / PPPoE / SDDP |
| Mobile support | LILIN Pro&Home, iPhone and Android |
| IP Scan | Supported, easy-to-setup for IP address |
| VMS support | Support NAV Client software |
| eMap | Supported |
| Hardware | |
| CPU | Intel® Core™ i9-12900E |
| RAM | 64GB (2 × DDR4 32GB) |
| Chipset | Intel® Q670 |
| Display card | 2 × GTX 1650 |
| Ethernet Ports | 1 x Intel® I225LM with 2.5GbE 1 x Intel® I225LM with 2.5GbE |
| Audio | 3 × Audio jack(s) |
| Rear panel USB port | 5 x USB 3.2 (Gen2) Type-A 1 x USB 3.2 (Gen2x2) Type-C |
| Front panel USB port | 2 x USB 3.0 Type-A |
| System fan | 3 × System Cooling |
| Hot spare | support |
| RAID Control | LSI SAS 9362-8i RAID |
| RAID Mode | RAID 0, 1, 5, 6, 10, 50 built-in 1 × 500GB 2.5 Inch SATA SSD (OS) Support up to 24 × Hot-swap 3.5 Inch SATA HDD (recording). |
| SSD / HDD | Note: Do not use WD Purple HDDs for NAV HDD installation. Please use 7200RPM WD Red Pro for non-RAID installation, WD (Gold) Enterprise HDDs for RAID installation, or other Enterprise HDDs |
| Other | |
| Language | English, Traditional Chinese, Spanish, German, French, Russian, Japanese, Portuguese, Italian, Simplified Chinese, Slovenian, Czech, Hungarian, Turkish, Arabic, Persian, Bengali, Vietnamese, Polish |
| OS | Windows 11 IoT Enterprise 22H2 GAC |
| DST | Daylight saving time by Windows OS |
| Warranty | 3 years |
| Power and environment | |
| Power consumption | 800W |
| Power supply | 110V ~ 240V Redundant Power Supply |
| Operating Temperature | 0° C ~ 50° C (32° F ~ 122° F) |
| Storage Temperature | -20° C ~ 70° C (-4° F ~ 158° F) |
| Relative Humidity | 10% ~ 90% (non-condensing) |
| Dimension (mm) | 133 (H) × 430 (W) × 680 (D) mm |
| Color | Black |
| Weight | 75 lbs (34kg) - Gross |