

NAV5108AI

Aida Server



LILIN NAV5108AI Aida Server is a 8 channels AI server that can support up to 3 AI engines at the same time. It provides 16 AIDA Processing Power that can be allocate by user according to its purpose. Through our Navigator software user will be able to search the video by category, doing playback and also do backup.



- Support 8 channels for AIDA recognition
- Number plate recognition (optional)
- Traffic management (optional)
- Car mark recognition (optional)
- Face & mask detection (optional)
- H.265/H.264/MJPEG Video format
- Dual streaming decoding mode supported
- Up to 8CH Recording, 8CH Display (Dual-screen 480P 15fps)
- Support up to 2 × 3.5" SATA HDD (recording)
- Support multi-channels synchronized playback (remote or local)
- Support Fisheye camera dewarping
- Built-in 1GbE RJ-45 × 2
- Built-in 700W Power Supply
- 4U 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	4U Chassis
Network video input	Up to 8 channels 1080P / 3M / 4M / 5M / 8M /12M
Paired with AI IPCAM	No support
Network video format	H.264 / H.265 / MJPEG
Maximum network throughput	Upload: up to 500Mbps Download: up to 500Mbps
Internal HDD / Swap Drive Bay	built-in 1 × 256GB SSD (OS) Support up to 3 × 3.5 Inch SATA HDD (recording)
Video input	
Support quantity	Max. 8 channels
Camera name	20 characters
Channel editing	Mouse drag-n-drop
Fisheye Dewarp Mode	Ceiling and ground mounted, 1 R One Region, 3 R1O Three Regions One Fisheye, 4 R Four Regions, 2 R1P Two Regions One Panoramic 360, 2 P Two Panoramics 180, 8 R1O Eight Regions One Fisheye, Wall mounted, 1 R One Region, 3 R1O Three Regions One Fisheye, 4 R Four Regions, 2 R1P Two Regions One Panoramic 180, 1 WP One Wall Panoramic 180, 8 R1O 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@30Hz)
DVI output	No support
VGA output	No support
DisplayPort output	1 × DisplayPort 1.2, (4096 × 2160@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	1 monitors support up to 8 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	No support
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	Supported
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 FastForward: 1/8, 1/4, 1/2, 1X, 2X, 4X, 8X, 16X, 32X
Backup / Video input	Max. 4 channels, AVI & MP4 file format supported
Remote video	NAV Server / Navigator Client / DVR / NVR / IP camera SD card supported up to 8 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	IP Scan
VMS support	Support NAV Client software
eMap	Supported
Hardware	
CPU	Intel® Core™ i9-10900
RAM	32GB (2 × DDR4 16GB)
Chipset	Intel® H410
Display card	1 × RTX3050
Ethernet Ports	1 × Intel® I219V with 1GbE 1 × Intel® I210 with 1GbE
Audio	2 × Audio jack(s)
Rear panel USB port	2 × USB 3.1 (Gen1) 2 × USB 2.0
Front panel USB port	2 × USB 3.0
System fan	2 × 120mm front exhaust fans 2 × 80mm rear exhaust fans
Hot spare	No support
RAID Control	No support
RAID Mode	No support
SSD / HDD	Built-in 1 × 256GB SSD (OS) Built-in 1 × 1TB 3.5" SATA HDD (recording) Support up to 2 × 3.5" SATA HDD (recording)
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	DST Daylight saving time by Windows OS
Power and environment	
Power consumption	700W
Power supply	110V ~ 240V
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)	177 (H) × 482 (W) × 650 (D) mm
Weight	35.71 lbs (16.2kg) - Net
Warranty	
Warranty	3 years
AIDA Recognition Specifications	
Navigator Corporate Channel number	8 channels
Number of Aida recognition channel supported	8 channels
Number of AI engines allowed	3 engines
Aida computing power capacity	16 Aida power per server