

# NAV2036F NAV Facial Recognition Recorder



- ▶ Up to 4 channels 1080P network streaming, recording, and display
- ▶ built-in 1 × 500GB 2.5 Inch SATA SSD (OS)
- ▶ Support up to 3 × 3.5 Inch SATA HDD (recording)
- ▶ Dual streaming decoding mode supported
- ▶ 1 monitor supported, up to 4 channels video display
- ▶ Support multi-channels synchronized playback (remote or local)
- ▶ Support Fisheye camera dewarping
- ▶ Built-in dual port Gigabit Ethernet, RJ-45 × 2
- ▶ Built-in 500W Power Supply
- ▶ 2U dimension for rackmount cabinet
- ▶ Facial recognition for access control, time and attendance, denial list, and VIP greeting management
- ▶ 10,00 people, 10,000 photos db
- ▶ Up to 4 people faces per channel
- ▶ Batch photos quick import
- ▶ Support Exclusion list, white list, black list and other 123 group, each can trigger different alarm output.
- ▶ Up to 93.7% recognition rate at 200 people DB

## Introduction

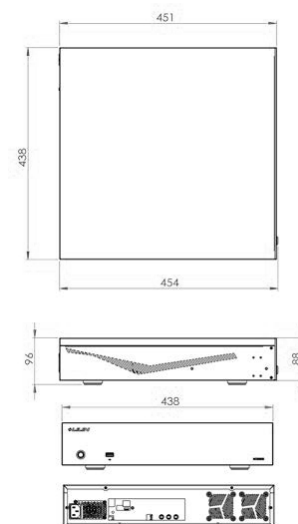
LILIN facial recognition recorder is based on LILIN NAV Enterprise and Corporate platforms for access control and VIP greeting systems. Facial recognition system detects a face from a camera and compares its photo face db from the denial list and VIP list for recognition. Based on the denial list and VIP list, it can trigger related alarm action output(s).

It is built-in dual port Gigabit Ethernet, and dual monitors. It also supports multi-channels playback for remote or local NAV. Failover, video achieve, and video sync are supported

LILIN is the leading CCTV provider for video surveillance including number plate recognition, and facial recognition. LILIN world-class facial recognition accuracy, flexibility, and ease-of-use make Navigator software the right choice for retail, access control, time and attendance, surveillance, denial list/VIP greeting management, and other applications.

## Dimensions

88 (H) × 438 (W) × 451 (D) mm



## NAV Facial Recognition Recorder

### Basic Spec

Model	NAV2036F
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	2U Chassis
Network video input	Up to 4 channels 1080P
Input (Facial Recognition)	Up to 4 channels 720P/1080P, 15fps/30fps
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 × 500GB 2.5 Inch SATA SSD (OS) Support up to 3 × 3.5 Inch SATA HDD (recording)

### Video input

Support quantity	Max. 4 channels
Camera name	20 characters
Channel editing	Mouse drag-n-drop
Digital zoom	Yes, ePTZ supported
Privacy Mask	Supported
Remote monitoring	Yes, web and NAV Client

### Video output

HDMI output	1 × HDMI Port 1.4b, (4096 × 2160@24Hz)
DisplayPort output	1 × DisplayPort 1.2, (4096 × 2304@60Hz)
Split screen	4, 9, 16, 25, 36
Dual stream technology	Multi-channel displays D1 and full screen displays 1080P
Multi-screen	1 monitor support up to 4 channels

### Recording mode

Recording mode	Alarm, motion, schedule, and manual
Recording schedule	7 days × 24 hrs time table, recording mode configurable
Recording resolution & framerate	1080p@30fps, and ROI recording supported
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 1080p@30 fps
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. 4 channels, AVI & MP4 file format supported
Remote video	NAV Server / Navigator Client / DVR / NVR / IP camera SD card supported up to 4 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.
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### 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	LILINViewer, iPhone and Android
IP Scan	Supported, easy-to-setup for IP address
VMS support	Support NAV Client software
eMap	Supported
eMap Live Monitoring	Each map can see 64 live video at the same time
Auto Switch to the Map of Alarm Event	Supported
eMap Alarm Snapshot	Motion detection / external alarm / audio detection alarm / face detection
Alarm Event Actions	Digital output controllable, snapshots, and alarm popup
(eMap)Central Management	Centralized monitoring channels from multiple server
(eMap)Online Maps	Google map and Baidu map up to 128 eMap, GPS devices supported
Number of Mark for Online Map	Each online map can support 5000 camera mark
Number of Mark for Offline Map	Each offline map can support 500 camera mark

### Hardware

CPU	Intel® Core™ i7-10700
RAM	16GB (2 × DDR4 8GB)
Chipset	Intel® H410
Display card	Intel® UHD Graphics 630
Ethernet Ports	2 × RJ-45 1GbE
Audio	5 × Audio jack(s), 1 × S/PDIF
Rear panel USB port	5 × USB 3.1 , 1 × USB Type-C
Front panel USB port	1 × USB 3.0
System fan	2 × 60mm rear exhaust fans
SSD / HDD	built-in 1 × 500GB 2.5 Inch SATA SSD (OS) Support up to 3 × 3.5 Inch SATA HDD (recording) 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
OS	Windows 10 embedded LTSB
DST	Daylight saving time by Windows OS

Power and environment	
Power consumption	500W
Power supply	110V ~ 240V
Operating Temperature	10°C ~ 40°C(50°F ~ 104°F)
Storage Temperature	0°C ~ 70°C(32°F ~ 158°F)
Relative Humidity	10% ~ 90% (non-condensing)
Dimension (mm)	88 (H) × 438 (W) × 451 (D) mm
Color	Black
Weight	21.00 lbs (9.52kg)

Facial Recognition Datasheet	
Recognition speed	6~8 recognitions per second for a camera
Number of channels	4 cameras up to 15 recognitions / sec
Number of faces	Up to 4 faces per picture
Minimum Face Pixel requirement	80x80 pixel: 70% confidence rate, 300x300: 80% confidence rate, 450x450 pixel: 90% confidence rate
Minimum Face Size (pixels between eyes)	0.5 ~ 6m, face photo with 80x80 ~ 450x450 pixel
Video resolution supported	720P, 1080P
Database capacity	1000 people, 10000 photos db
Face training database	up to 10 pictures per person
Recognition rate	93.7% at 200 people DB, recognition rate might drop and recognition rate might increase for big face db.
Face Database Matching/Searching (ms)	Full search time for 200 people database is under 1000 ms
Detectable face angle	Up and down +/-15 degree, left and right +/-15 degree
Environment minimum Lux	450Lux~1000Lux
Face photo db	Batch photos import
Face detected for alarm triggering	Full screen, OSD text, digital output triggering, buzzer, PTZ preset
Face lists	VIP list, unauthorized list, guest list
Guest list	Guest list allows added into face database
Schedule	4 scheduling tables for alarm outputs and DO triggering
Camera supported	ONVIF IP camera and RTSP stream
Video recording	4 channels face recognition

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