

LILIN Mask Wearing Detection System



Mask Detection System uses
existing cameras to detect people
without masks.



User
Friendly



Easy
Management



High
Efficiency

Overview



Mask Detection uses existing cameras to look for the faces and detect people without masks. Using LILIN AI system and Aida NAV server, the system can recognize if the person is not wearing a mask.

If the system identifies a user that he/she was not wearing a mask, an alert goes out with the picture of the person. It allows the application to run automatically and enforces the wearing of the mask. In case, the face captured by the camera is recognized, the notification is sent to the administrator.

Benefit

- Identify people without masks and get instant alerts
- LILIN AI Mask Detection is based on LILIN NAV recorders, Aida mask wearing detection system and Intel OpenVINO
- In a Post-pandemic era, it reduces human labor for detecting a person entering public areas



Features of LILIN AI Mask Detection System



The HDMI monitor shows the video of mask wearing detection

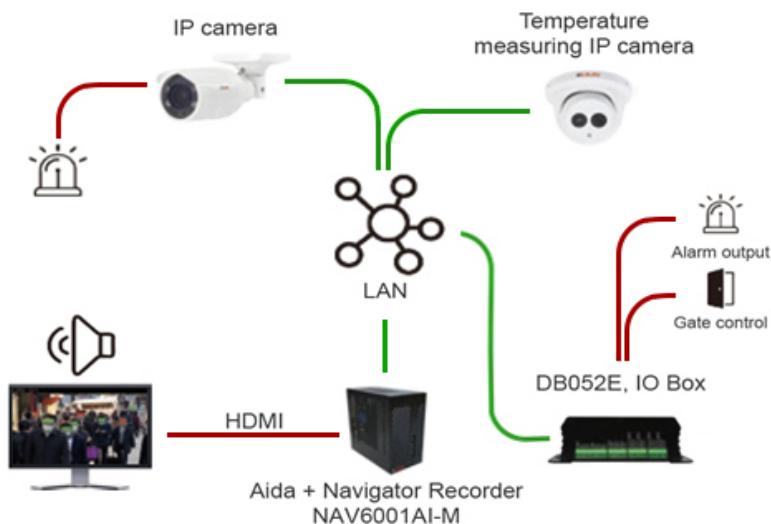


The speakers of an HDMI monitor can make audio of warning message



Trigger alarm output via the digital output of an IP camera

How does it work?



Detect no mask wearing for

- (1) audio notification
- (2) door automation
- (3) alarm IO firing
- (4) gate automation

Send alert to the faces which are recognized, also set the rate of sending the alerts and detection of faces.

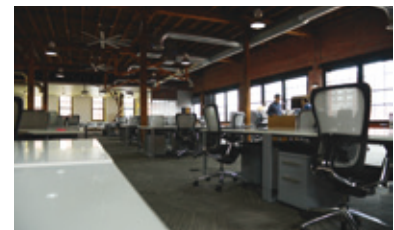
Use cases



School



Public Transportation



Office



Hospital



Factory



Retail

Technical Specifications

Basic Spec	
Model	NAV6001AI-M
Network Video Support	ONVIF Profile S, LILIN IP camera
Network Video Input	Up to 4 channel 1080P
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× 500 GB 2.5 SATA SSD (OS) Built - in 1× 1 TB 2.5 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
Grouping	User grouping authentication assignable for eMap and Navigator
Remote Monitoring	Yes, web and NAV Client
Video Output	
HDMI Output	1 × HDMI Port 1.4b, (4096 × 2160@24Hz)
VGA Output	1 × VGA Port, (1920 × 1080@60Hz)
DisplayPort output	1 × DisplayPort 1.2, (4096 × 2304@60Hz)
Recording Mode	
Recording Mode	Alarm, motion, schedule, and manual
Recording Schedule	7 days × 24 hrs time table, recording modeconfigurable
Recording Speed	Max 1080p@120 fps, and ROI recording supported
Recording Resolution	1920 × 1080, 1280 × 1024, 1280 × 768, (720 × 480 / 720 × 576), 320 × 240
Alarm Recording	Mask recognition
Audio Recording	Yes
Circular Recording	Yes / size customizable
Limited Recording	Yes / days customizable
Video Archiving	Yes
Low Bitrate Recording	Yes
Remote Network NAS	Yes
Playback	
Playback Search	Name, time, event, POS SmartSearch, motion SmartSearch, plate search, record tagging
Playback Resolution	1920 × 1080, 1280 × 1024, 1280 × 768, (720 × 480 / 720 × 576), 320 × 240
Video Speed	Max 1080p@120 fps
Playback Speed	FR: 1/8, 1/4, 1/2, 1X, 2X, 4X, 8X, 16X 32X FF: 1/8, 1/4, 1/2, 1X, 2X, 4X, 8X, 16X, 32X
Backup / Video Input	Max. 4 channels, AVI file format supported
Mask Recognition Specifications	
Recognition Speed	6 recognitions per second
Number of Channel for Mask Recognition	1 channel
Number of Mask	Up to 24 masks per channel
Recognition Rate	
Minimum Face Photo Pixel Requirement	100x100 pixel
Video Resolution Supported	1080P
No Mask Detected for Alarm Triggering	HTTP METADATA, IOBOX Alarm Output, NVR Alarm Output, IP CAMERA alarm output
Counter	Support
Can Set Up Time Range Using Counter	Support
Reset Counter Mode	Manually / Schedule

Alarm / Event	
Alarm Management	Alarm popup for full screen, PC sound, redirect IP camera's digital output, email snapshots, redirect a PTZ preset recall
Alarm Recording	Pre-alarm:1 ~ 10 seconds and post-alarm: 1 sec ~ 59 minutes
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
Accessories	
Keyboard	PIH-931D keyboard controllable via rs-485 to usb converter for PTZ, ePTZ, and ROI features
Audio	PCM, two-way audio, audio recording
POS	TCP-IP / USB interface
Protocols	ARP, TCP/IP, HTTP, SMTP, DNS, PPPoE, ONVIF
Mobile Support	LILINViewer, iPhone and Android
IP Scan	Supported, easy-to-setup for IP address
VMS Support	Support NAV Client software
eMap	Supported
Hardware	
CPU	Intel® Core™ i3-9100
RAM	8GB (2 × DDR4 4GB)
Chipset	Intel® H310 Chipset
Display Card	Intel® UHD Graphics 630
Audio	1 × Head Phone with Mic Jack, 1 × Mic-In
Rear Panel USB Port	1 × USB 2.0, 1 × USB 3.0
Front Panel USB Port	1 × USB 3.0, 1 × USB Type-C
SSD / HDD	Built-in 1 × 500GB 2.5 SATA SSD(OS) Built-in 1 × 1TB 2.5 SATA HDD (recording)
Other	
Language	English, Traditional Chinese, Spanish, German, French, Russian, Japanese, Portuguese, Italian, Simplified, Chinese, Slovenian, Czech, ungarian, Turkish, Arabic, Persian, Bengali, Vietnamese
OS	Windows 10 Enterprise SAC
DST	Daylight saving time by Windows OS
Power and Environment	
Power Consumption	120W Power Supply
Power Supply	110V ~ 240V
Operating Temperature	10°C ~ 40°C(32°F ~ 104°F)
Storage Temperature	0°C ~ 70°C(-4°F ~ 176°F)
Relative Humidity	10% ~ 90% (non-condensing)
Dimension (mm)	155 (H) × 155 (W) × 80 (D) mm
Color	Black
Weight	2.20 lbs (1.4kg)



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