

AiVis – Smart Camera and Al Processor

The New Normal – New Challenges



COVID-19 has changed how we work, shop and live.

The New Normal Checklist



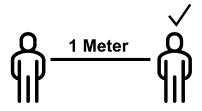
Temperature Screening



Mandatory Mask



Footfall Count



Social Distancing



Hand Sanitization



Deep Fumigation

Government has mandated on-site health screening and social distancing as essential at all spaces

The New Normal – New Threats



Safety, approach and imperative

- 1. Manual checking, High risk
 - Close contact among the users can lead to potential risks of spreading the virus
- 2. Inconsistency
 - Reliability of service across areas, time of the day and season
- 3. High Cost, Low Efficiency
 - Increased manpower required, but 1-by-1 inspection is inefficient.
- 4. Lack of Intelligent Analysis
 - Manual registration is required, which may lead to human error and not so timely feedback.
- 5. Meeting the compliances
 - Govt regulations of tracking footfall count in all areas

Overview



- Thermal Camera converts IR radiations into detectable pixel values. Hence any objects temperature can be measured at a distance
- One of the first symptoms of Coronavirus is a fever, which results in a higher than normal body temperature
- Thermal cameras can be used for a preliminary screening of people having fever to eliminate chances of spreading the infection

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What are we solving?



01 Smart – Al enabled

Artificial Intelligence based detection, greatly reducing false alarms

06 Scalability

Plug & play solution and centralized dashboard for multiple sites

05 Consistency

Consistency of service across areas, time of the day, season

02 Fast – Thermal camera

Super fast, skin-surface temperature detection

03 Safe

Non-contact measurement to avoid physical contact

04 Investment for future

Attendance management, heat maps, facial recognition, etc

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Introducing – AlVis Smart Camera

AlVis Benefits



1. Minimal Human Contact

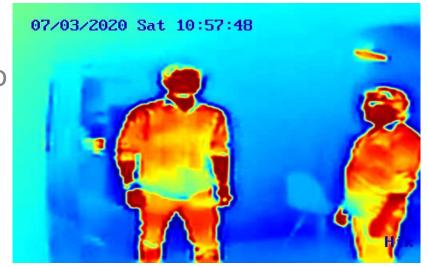
- Smart human skin-surface temperature detection No false alarms
- Temperature detection from 10 m away
- Mask detection from 5 m away

2. No Crowding, No waiting at entry gates

 High speed detection – Ideal for high footfall areas like large office complexes stadiums, temples, malls, societies etc.

3. Real-time Alerts and Live Notifications

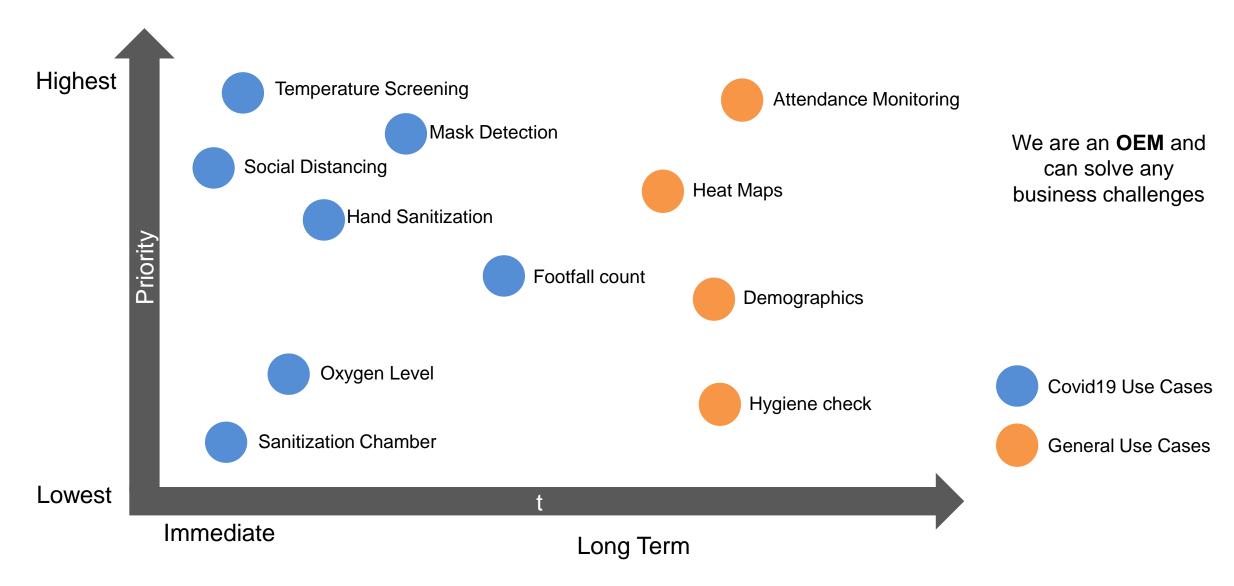
- Immediate warning through buzzer and on screen
- Auto recording of every person detected with fever or without mask
- 4. Up and running in 5 mins Plug and play model





Solution Response Roadmap

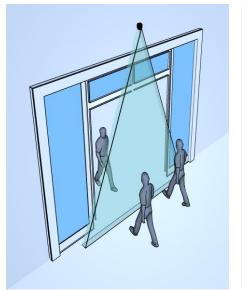


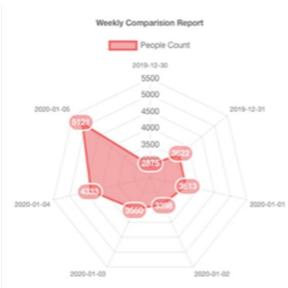


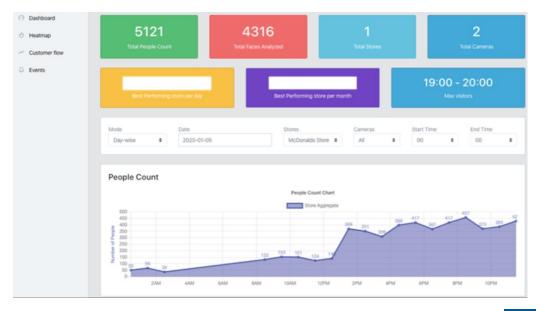
People count

JNV

- 1. Count the number of people entering and exiting from a specific area- office, mall, event, social gathering etc.
- Display and broadcast results on realtime basis
- 3. Helps in meeting the compliance
- 4. Prerequisites:
 - a. Optical camera + DVR recording
 - Existing optical camera can be used, subject to image quality
 - b. Analytics box







Easy to Install and Setup

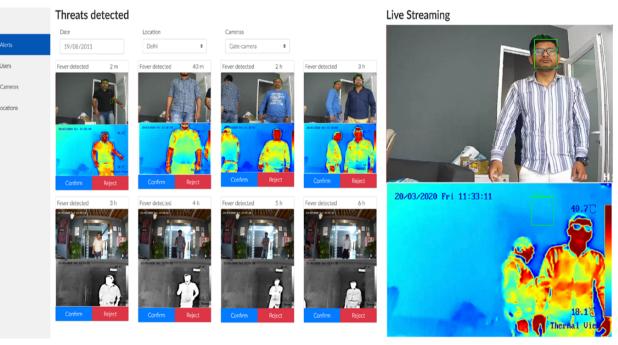
JUA

- Setup a channel for people to walk into in an orderly fashion (Such as a DFMD machine, turnstile, or walkways)
- Entry —



- 2. Setup the camera at the termination of that line, so that all the people walking through can be scanned in less than 1 second / scan
- 3. The camera will beep an alert and send a notification on the dash board for those with high body temperature and not wearing a mask

Temperature and mask detection



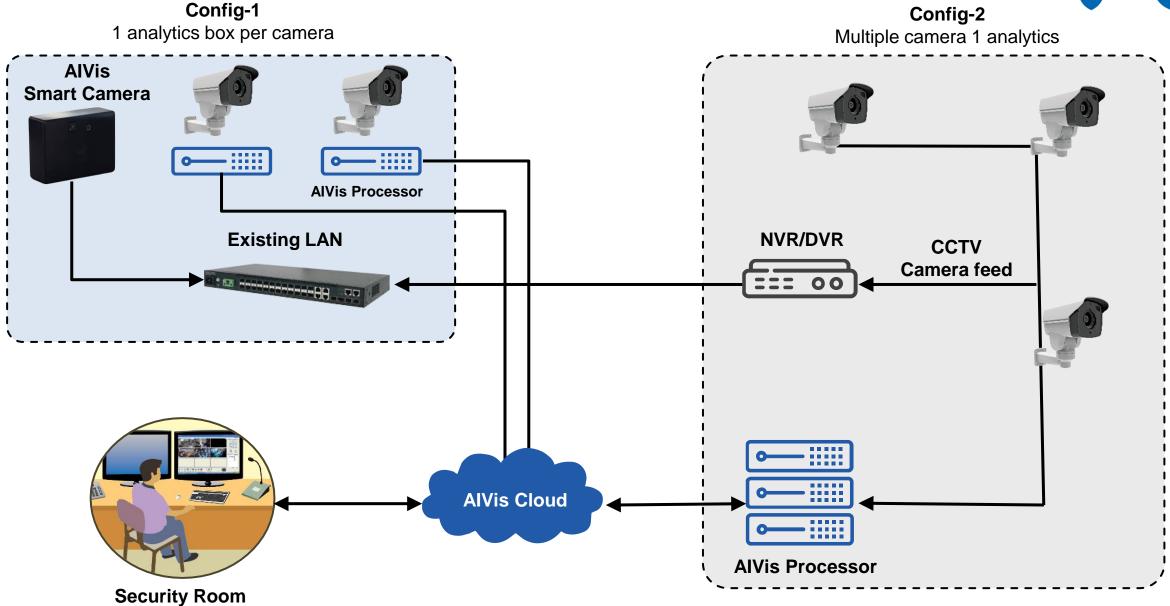
Make your existing surveillance network smarter



- Makes your existing surveillance network smarter
- Real-time remote monitoring, management and control
- Real-time analytics for smarter decisions
- Multi-Camera support Can scale to 100s of cameras
- Works with any IP/Analog camera and even standalone
- Facial Detection Demographics Analysis
- Alerts and highlights blacklisted customers too
- Count the number of people entering and exiting from a specific area

AlVis Smart Camera and AlVis Al Processor





AiVIs



	Feature	Single Camera	Multi Camera/ Site
Standard	Storage	SD-Card	SD-Card
	Dashboard	$\sqrt{}$	$\sqrt{}$
	Temp detection	$\sqrt{}$	$\sqrt{}$
	Mask detection	$\sqrt{}$	$\sqrt{}$
	Audio alerts	\checkmark	\checkmark
Ad-on	Attendance management	$\sqrt{}$	$\sqrt{}$
	Footfall count	\checkmark	\checkmark
	Centralised dashboard/Cloud based	X	\checkmark
	Demographics	\checkmark	\checkmark
	Heat maps	$\sqrt{}$	\checkmark
	Monitor	Optional	Optional
	Wi-Fi module	Optional	Optional

Specifications- Thermal Camera



Spectral Range	Longwave infrared, 8 µm to 14 µm	
Temperature Compensation	Automatic	
Thermal Sensitivity	<50 mK (0.050° C)	
Optimum Temperature Range	-10 °C to +80 °C	
Sensor Technology	Uncooled VOx microbolometer	
GPU	128-core Maxwell	
CPU	Quad-core ARM A57 @ 1.43 GHz	
Connectivity	Gigabit Ethernet, M.2 Key E	
Display	HDMI and display port	
USB	4x USB 3.0, USB 2.0 Micro-B	
Temp Variation	+/- 0.5 C	
Optical Camera Mega Pixel	8 MP	
Height of the camera from floor	1-1.5 Mtr	

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Pre requisites



	Single Camera	Multi Site / Camera
UPS enabled electricity	V	$\sqrt{}$
LAN connectivity	\checkmark	$\sqrt{}$
Internet connectivity over LAN- Thermal Camera	Optional	\checkmark
Internet connectivity over LAN-Analytics box	$\sqrt{}$	$\sqrt{}$
Monitor for direct HDMI O/P	\checkmark	$\sqrt{\ }$, all cameras
Web browser O/P	Optional	$\sqrt{}$
Optimal height from the ground	1-1.5m	1-1.5m

Scope of work

VNC

VNL / Spectra

- 1. One stop shop for all the AI enabled requirements on the thermal camera
 - Requirement assessment
- 2. Shipment of the solution
- 3. Project Management & delivery of the solution
- 4. Al features (Attendance, heat map, footfall count, etc)
- 5. Remote demonstration of the app
- 6. Helpdesk
 - Remote HW & SW support
 - Support ticket creation
- Back to bench warranty
- 8. Periodic Governance with IT team
- 9. Invoicing
 - Services

Customer

- Inputs for solution
- 2. Purchase order
 - Thermal camera and the standard solution
 - Additional services
- 3. Escalations for Project Management
- 4. Support ticket creation
- 5. Monthly Governance with Shyam group team
- 6. Deployment of the solution plug & play
- 7. Create and provide the ideal environment for installing the device
- 8. Back to bench warranty
 - Send the device to the Spectra warehouse in case of any fault
- 9. Payment
 - OTC & MRC charges



Thank you