

1. Solution Concept

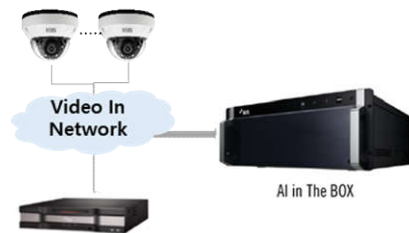
- ✓ Concept: “Deep Learning Based AI Box for Covid19
- ✓ Available at Oct 2020 (Demo in August)

Specification

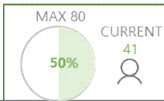



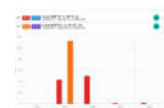
Model Name	DV-2232
CPU	I7-7700, 3.6Hz
RAM	DDR4, 8GB
VGA	NVIDIA GEFORCE RTX2060 SUPER 8G
OS Storage	2TB
Ethernet Ports	2 x Gigabit
Max. Analytics Frame Rates	1280x720 320ips (5ips/ch) TBD
Max. Analytics Channels	32ch Target
Supported Camera	IDIS camera

System Topology

Pairing with NVR (1:1)



Features

#1 People Counting +Exceed Occupancy Limit	Counting people using Line-crossing method: Real-time In/Out number management can show current number of people dwelling. When limit is over, notification trigger	
#2 Crowd Detection	Detecting number of individuals within the selected premise if it exceeds the recommended threshold, notification triggers.	
#3 Social Distancing Violation	Detecting Distance between individual whether if it the distance falls under desired threshold.	
#4 Mask Rule Violation	Detecting People without Masks.	
#5 Report-Separate	Real-time Occupancy Display Dashboard	
#6 Report-Client	In Client report based on above Rule #1~4	

2. Specified Summary

✓ More detailed features will be shared.

Features
#1 People Counting
1) Human Detection+ In/Out Counted Number into DataBase
+Exceed Occupancy Limit
1) Real-time IN/OUT Calculation (Information from all channels in a same machine to be merged)
2) On-site manual calibration available
3) Dwelling people number monitoring, alarm trigger if exceeded
#2 Crowd Detection
1) If number of people exceed in a selected zone, alarm trigger
- Ignore time Setting Available
#3 Social Distancing Violation
1) Monitoring distance among people. If distance too close, alarm trigger
#4 Mask Rule Violation
1) With Mask / Without Mask alarm setting
2) Alarm Event as per setting

Report- Separately generated
#1 People Counting
+Exceed Occupancy Limit
1) Real-Time Occupancy Display Dashboard
Report-Client
#1 People Counting
1) People Counting In/out Trend
- Accumulated Report of channels within same recorder (Time/Day/Month)
Excel or PDF Export function
+Exceed Occupancy Limit
1) Occupancy Exceed report (Time / Day / Month)
Excel or PDF Export
#2 Crowd Detection
1) Crowd Detection Report (Time / Day / Month)
Excel or PDF Export
#3 Social Distancing Violation
1) Social Distancing Violation Report (Time / Day / Month)
Excel or PDF Export
#4 Mask Rule Violation
1) Mask Rule Violation (Time / Day / Month)
Excel or PDF Export
Report for client – will be on a separated new tab.

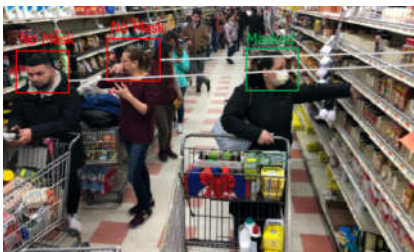
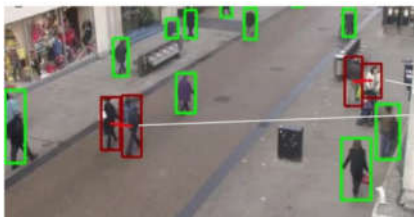
Appendix. Scenario: Domestic E-commerce W/H

✓ Analytics Feature

- Monitoring distance between two or more individuals (*Should be more than 1 meter when entering, moving, smoking)
(Site: Important places where people move, enter, smoke or else)
- Monitoring whether individuals wear masks (Site: Entrance, Work place)

✓ Required Function

- Event Alarm trigger via Video Analytics
- With Event Alarm, Audio Alarm Out gives Verbal message (Automatically or Manually)



Event Alarm



Audio Alarm Out



“Thank you for keeping the social distance ”

OR

“Please wear masks properly ”