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ANALYTICS
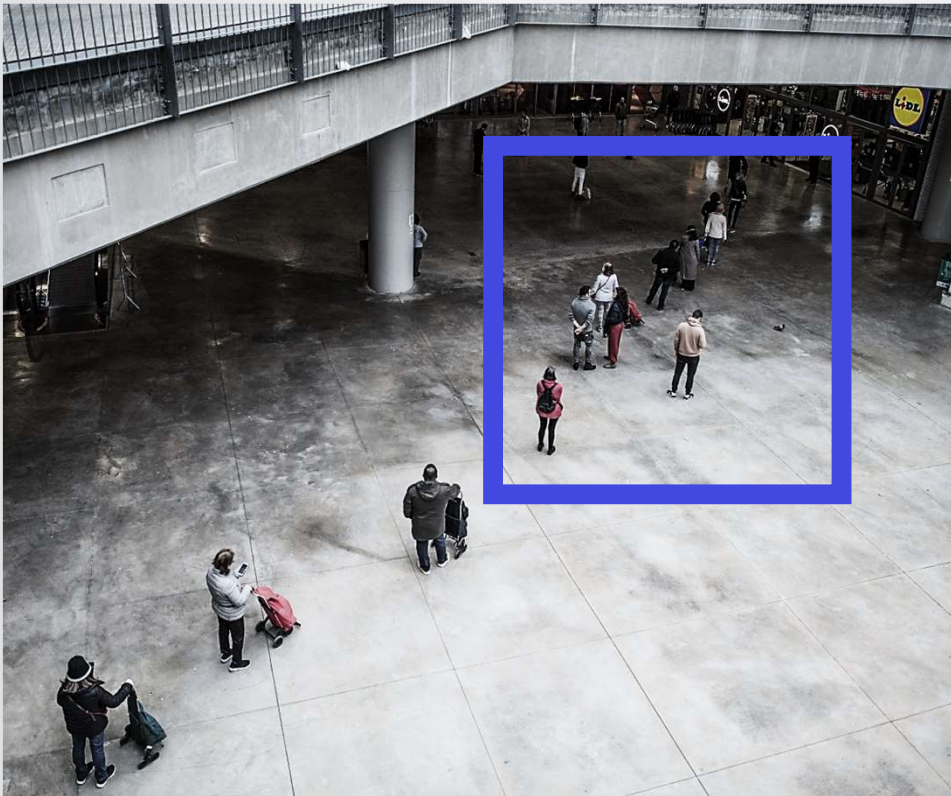# FOR A SAFER WORLD

1 JUNE 2020

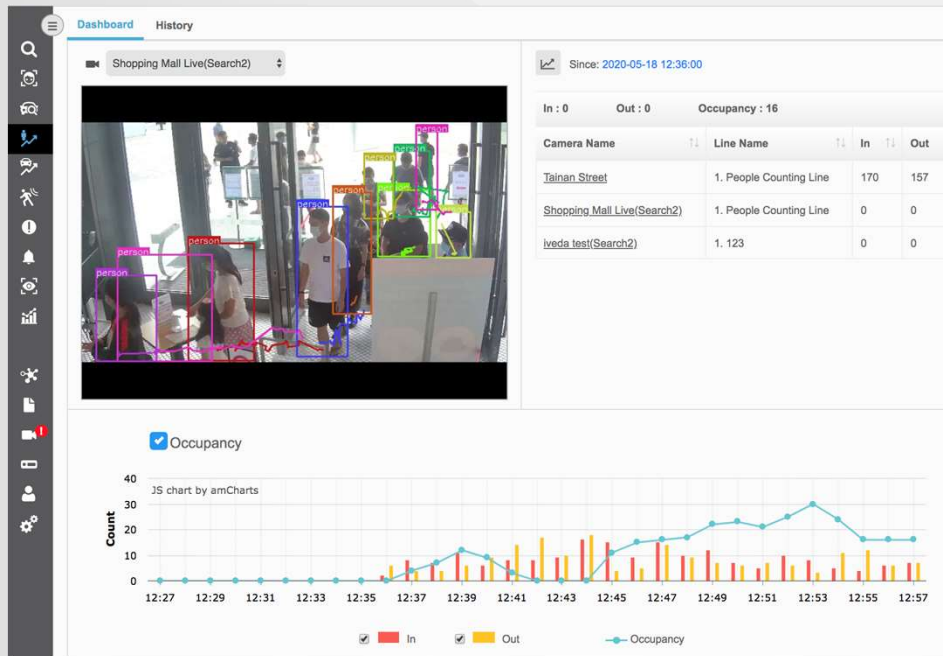A New World

SOCIAL HEALTH ANALYTICS

- ☐ Distancing Detection

- ☐ Occupancy Detection

- ☐ Facemask Detection

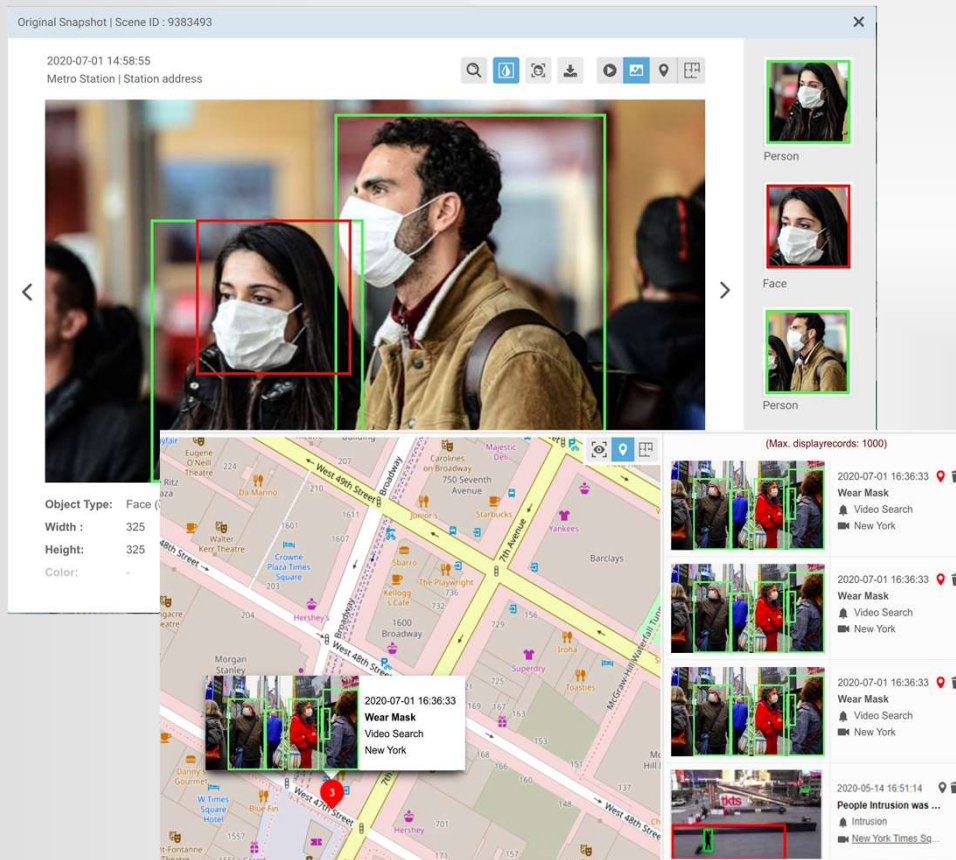- ☐ Temperature Detection

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DISTANCING DETECTION

- ☐ Detect 2 or more people within 6ft of each other in lines

- ☐ Real-time alerts

- ☐ No false alerts

- ☐ Inside, outside, day, night, low-light

- ☐ https://youtu.be/JXp3KbvZIIM

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OCCUPANCY DETECTION

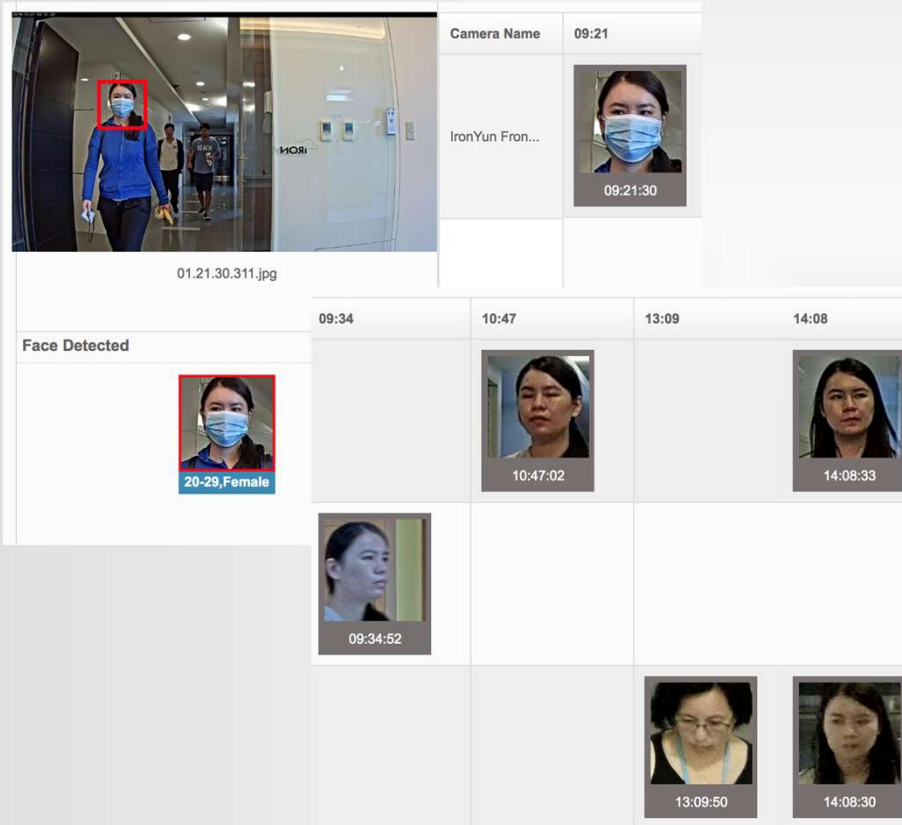- ☐ Measure occupancy of an enclosed and defined space in real time

- ☐ Restaurant, store, gym, exercise room…

- ☐ Alert when occupancy exceeds user defined threshold

- ☐ Count across multiple entrances and exits to manage occupancy across rooms, floors, facilities

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FACEMASK DETECTION

- ❑ Detect with / without facemask

- ❑ Real-time alerts

- ❑ Location tracking

- ❑ https://youtu.be/OxwK7bdkUiA

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FACEMASK AND FACIAL RECOGNITION

- Recognize faces with or without facemasks

- Match masked and unmasked images of the same person

- Match to approved list for automated access control

- Show paths and locations based on camera location and timestamps
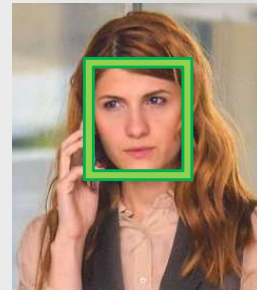
- Requires no database, protecting privacy

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TEMPERATURE DETECTION

- Uses both visual and thermal cameras
- Measures facial temperatures, ignores non-facial temps
- Real-time high-temp alerts
- Pre- and post-measurement location tracking
- Integrate with access control systems

1. Detect face
2. Detect face temperature
3. Alert above threshold
4. Match face for high-temp ID

High Temp Alert
- Employee A205
- Female, Age 35-40
- Building 3
- 06/10/2020 – 11:20:31AM

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ACCURATE FACE AND TEMPERATURE DETECTION

- ☐ Even with facemasks
- ☐ Across multiple people

https://youtu.be/xUqQwubDl68

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CONTACTLESS ACCESS CONTROL

Alert type: Video Search / Intrusion / Face Recognition / People Counting

Trigger actions:
- Email notification
- Mobile APP notification
- HTTP integration
- Alert in VMS

PPE filter: person with/without mask, helmet/hardhat, safety vest

- ☐ Use Face Recognition and/or License Plate Recognition to open doors and gates

- ☐ Use in conjunction with Facemask and/or Temperature Detection

- ☐ Integrate with 3rd party VMS and access control systems

- ☐ https://www.youtube.com/watch?v=k7XGiVuXsl0

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THE VALUE OF INTELLIGENCE

Cameras alone		Cameras + IronYun Analytics
Data recorded, relevant information not extracted or only manually extracted		Data recorded and processed to reveal relevant information for real-time alerts and quick retrieval
Fixed functionality		Versatile system, analytics can be added to any camera in the network
Singular built-in analytic per camera, e.g., FR camera, LPR camera		Multiple analytics can be applied to the same camera (IronYun platform has 15+ analytic engines)
		High-accuracy 4th-gen deep learning technology
		Low TCO

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THANK YOU

HQ 263 Tresser Blvd, Floor 9, Stamford, CT 06901

1-203-273-7089

sales@ironyun.com

https://twitter.com/IronYunInc

https://www.facebook.com/ironyun

https://ironyun.com/demo-video/

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THERMAL CAMERA DETAILS

- Shortlist of vetted thermal cameras

- Indoors, no backlight, single line

- One face detection at a time (entrance, transaction window, line)

- Eye-level up to 8', max 6-8' distance

- Calibrate on people with normal temperature or blackbody

- No blackbody calibration source required (lower solution cost)

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HARDWARE DETAILS

- ☐ Selected thermal cameras for temperature measurement

- ☐ 97% ONVIF-compliant IP cameras for all other components

- ☐ Scalable server architecture based on the channels and analytics needed

- ☐ On-premise deployment maximizes data protection

- ☐ Edge device can be used as long as there is sufficient AI computing resource

Analytics	AI resource per channel
Temperature Detection	8
Distancing Detection	2
Facemask Detection	2
Occupancy Detection	8