



Essential Deep Learning Applications to Fight the Spread of Infection

IDIS AI Box for COVID-19



The new IDIS AI Box (DV-2232) helps organizations to adhere with social distancing and occupancy density. These Deep Learning based functions support safe working practices, government regulations, and industry-specific guidelines to help prevent the spread of COVID-19. Features include social distance monitoring, people counting, occupancy control, and mask detection, together with a live occupancy dashboard and reporting tools.

Users can utilize four advanced video analytics functions in a single IDIS AI Box – all powered by the industry-beating, accurate IDIS Deep Learning Engine.

Essential Deep Learning Applications to Fight COVID-19 In One AI Box



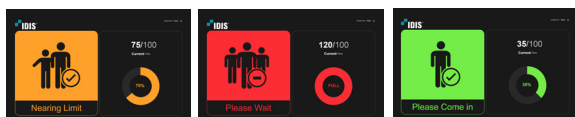
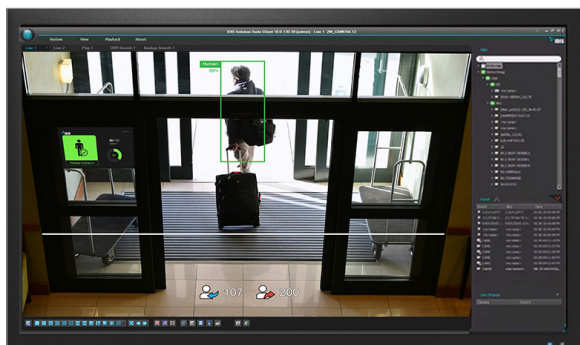
Utilize four advanced video analytics with one IDIS AI Box including social distancing violation, people counting, occupancy control, crowd detection and face mask detection, powered by the industry leading 98% accurate IDIS Deep Learning Engine.

Leverage Existing Legacy Systems of Any Size

- AI Box for COVID-19 is compatible with existing IDIS cameras and DirectIP NVRs.
- No additional cost or need to purchase and upgrade to edge VA devices.
- Adaptable to meet the needs of businesses large and small.



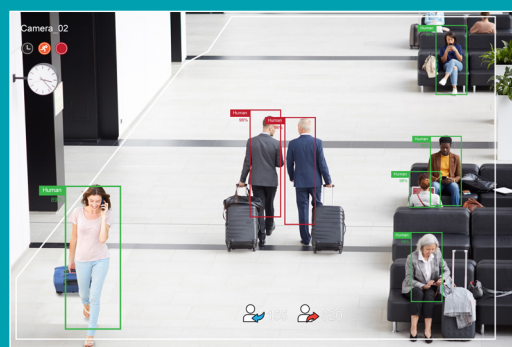
People Counting and Occupancy Monitoring



Occupancy Web Dashboard

- Using 32 multiple cameras at entrances and exits allows for simple real-time calculations to limit occupancy.
- Define up to 32 zones to eliminate overcrowding in specific areas.
- Occupancy dashboards display a 3-step traffic light image output.
- Customize with logos and other images.

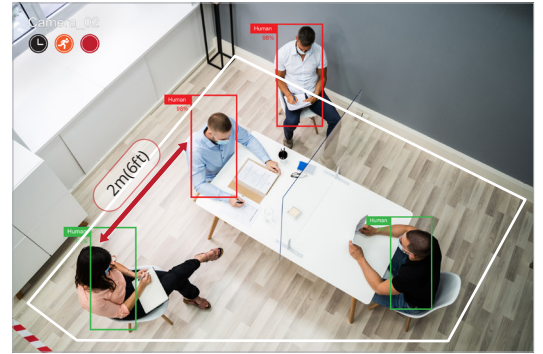
A Superior Perspective View



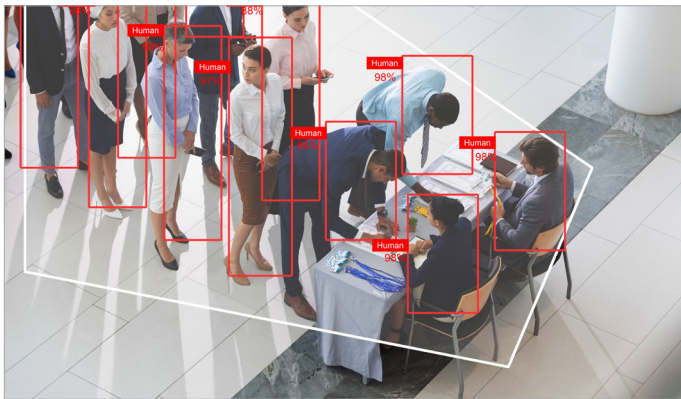
- Less restricted by installation height and environmental factors to provide a perspective view.
- Provides superior analysis compared to top view only analytics cameras.
- Each camera delivers security and safety benefits as well as business intelligence.

Social Distancing Violation Detection

- This function detects distance between individuals and sends an alarm when a defined distance is violated.
- Event notifications can be configured with audio alarms to issue verbal warnings.
- Choose from five spacing sensitivity levels.



Crowd Detection

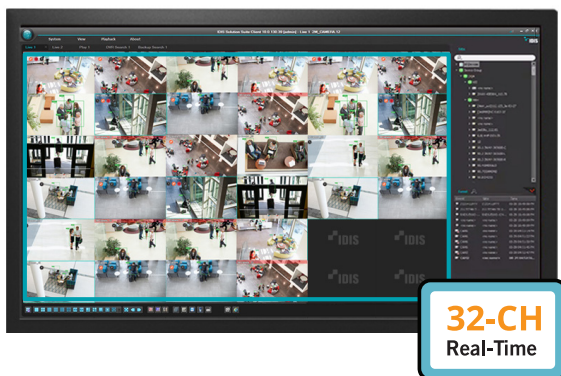


Detects crowds in pre-selected zones and triggers event alarms should a bottleneck or overcrowding occur.

Face Mask Detection



Users can choose to detect people wearing a mask or people who are not wearing a mask, and trigger event alarms accordingly.

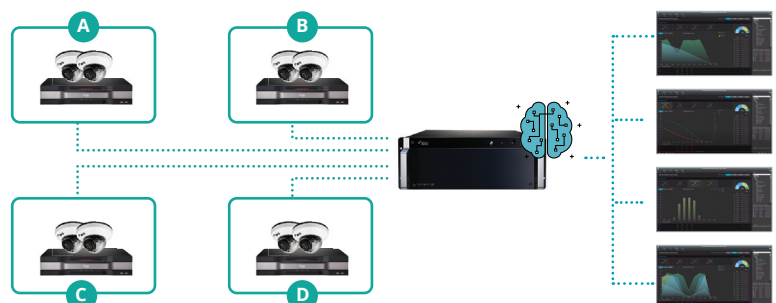


32-Channel Real-Time Simultaneous Video Analysis

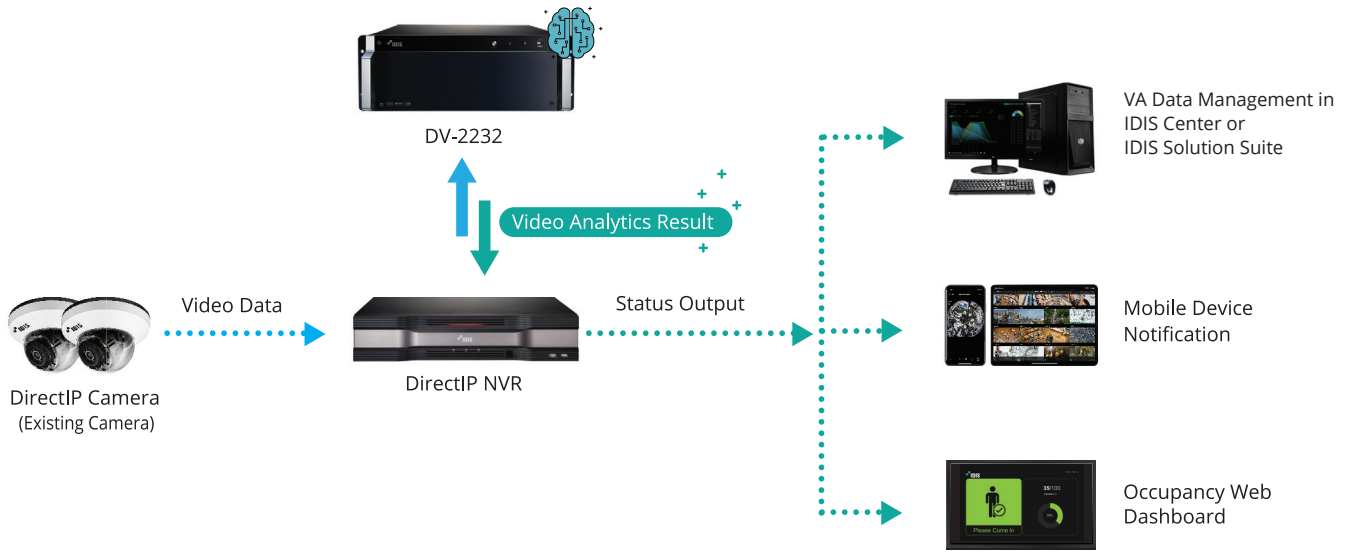
- Analyze 32-channels using just one AI in the Box.
- Benefit from four intelligent video analytics functions from one camera stream.
- Fast and simultaneous registration of multiple NVRs.

Reports

- Dashboards and reporting tools for people counting and rule violations by time, day, and month.
- Management and analysis of up to four sites.
- Ability to export data to Excel spreadsheets.



Operation Diagram



AI in the Box DV-2232

IDIS Deep Learning Analytics (IDLA)
Powered by the
IDIS Deep Learning Engine



- A specialized DirectIP NVR
- Supports up to 32-ch IP cameras
- Powered by advanced IDIS Deep-Learning Analytics (IDLA)
- People Counting and Occupancy Control
- Crowd Detection
- Social Distancing Violation
- Mask Rule Violation
- Real-time event notifications with high accuracy
- Live Occupancy Dashboard
- Dashboard Reporting of visitor flow and compliance

DV-2232

SYSTEM

Video Compression	H.264, H.265
Video Inputs	32ch IP
Supported Device	DirectIP NVR
Network Connection	Gigabit Ethernet x 1 (1000Base-T)
IDLA Processing Unit	NVIDIA RTX2060, 8GB
Operating System	Microsoft® Windows Embedded Standard 8
Processor	Intel® i7-7700, 3.6GHz
Memory	DDR4 PC-19200, 8GB
Video Outputs	1 HDMI, 1 DP, 1 VGA
USB	6 (2 Front USB 2.0 + 2 Back USB 3.0 + 2 Back USB 2.0)
VA Support	People Counting, Occupancy Control
	Crowd Detection
	Social Distancing Violation
	Mask Rule Violation

GENERAL

Unit Dimension (W x H x D)	440mm x 462mm x 177mm (17.3" x 18.2" x 7.0")
Unit Weight	14.0kg (30.9 lb)
Operating Temperature	0°C to 40°C (32°F to 104°F)
Operating Humidity	0% to 90%
Power Input	AC 100-240 V, 50/60Hz, 5.5 - 2.5A
Power Supply	Single Power
Power Consumption	350W

ACCESSORIES SUPPLIED

Power Cord	1
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GENERAL

Approvals	FCC, CE, CB, UL, KC
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*The images used in this brochure are for simulation and demonstration purposes only