DV-1304-A

Architectural and Engineering Specifications

Version 1.0

(June. 14, 2023)

**PART 2 - PRODCUTS**

**Division 28 – Electric Safety and Security**

**Section 0000 – Security and Surveillance**

# Manufacturer

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# General

##  Product Description

DV-1304-A is a Video Analytic Box (VA Box) that uses IDIS Deep Learning Engine(IDLE). It is designed and manufactured by IDIS. The VA Box shall offer a robust, easy to use and to install application for monitoring and reporting specific Video Analytics events and behaviors. It is registered with the NVR, and VA settings are made in the NVR. DV-1304-A supports Object Detection, Intrusion, Loitering, Line Crossing, Face Detection. The IDIS Center (client app) uses VA Metadata collected from the NVR to output a meaningful VA Meta graph from the VA Dashboard tab.

##  General Specification

1. The VA Box shall support 4ch IP Camera.
2. The VA Box shall support H.264 and H.265 codec.
3. The VA Box shall support Object Detection, Intrusion, Loitering, Line Crossing, Face Detection.
4. The VA Box shall support 100M(100Base-TX) Ethernet x 1 with PD, 100M(100Base-TX) Ethernet x 1 with PSE (PSE needs Adaptor)
5. The IP camera shall support industry standard Power over Ethernet (PoE) IEEE 802.3at, Class 4 to supply power to the camera over the network and DC OUTPUT : 48V=, 0.35A MAX DC.

# Technical Specification

##  Hardware Specification

1. Video Input Connection:
	1. 2 x 100M Ethernet Interface :

- 100M(100Base-TX) Ethernet x 1 with PD,

- 100M(100Base-TX) Ethernet x 1 with PSE (PSE needs Adaptor)

1. Supported Camera protocol: DirectIP

##  Electrical Specifications

1. Power Input : 48V=, PoE
2. Power Consumption :

48V=, 0.8A, 38.4W

PoE, IEEE 802.3at(Class 4), 25W

DC OUTPUT : 48V=, 0.35A MAX

1. Regulatory Approvals:
	1. Electrical: FCC, CE, KC

## Software Specification

### Image requirements for Video Analytics

1. Resolution: The width of an image should be 512 or higher.

(For example, 360x240 image won’t have enough for VA box to analyze and there will be many false alarms.)

1. Required frame rate: 10 or higher ips required.
2. Codec: H.264, H.265

### Video Analytics Type

1. People Counting, Occupancy Control, Queue Monitoring, Heatmap, Social Distancing Violation, Mask Rule Violation

### Additional Information

1. DV-1304-A supports a total of 4 channels of VA analysis, and multiple VA settings are also possible on a single camera (e.g. IP camera 1-stream > People Counting and Heatmap Settings, in this case, it takes 2 channel of VA Box)

## Installation Requirements (Prerequisites)

### Supported Devices

Third Generation DirectIP NVRs with firmware version latter than a specific one.

1. DirectIP NVR models
	1. DR-2500 Series v8.5.0 or higher
	2. DR-6500 Series v8.5.0 or higher
	3. DR-8500 Series will support around July.2023
2. DirectIP Cameras
	1. All IDIS network cameras which support DirectIP protocol.

### Supported Protocol

Supports only DirectIP Protocol.

\*\* Be aware that IDIS Protocol, Onvif or Third party protocol does not work along with DV-1304-A.(IDIS Cameras support only)

## Mechanical Specifications

1. Unit Dimensions (W x H x D): 200 mm x 44 mm x 157.6 mm (7.9" x 1.7" x 6.2")
2. Unit Weight: 0.88 kg (1.94 lb)

## Environmental Specifications

1. Operating Temperature: 0°C to 40°C (32℉ ~ 104℉)
2. Operating Humidity : 0% ~ 90%

# Version History

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| --- | --- | --- | --- |
| **Version** | **Writer** | **Revision Date** | **Remarks** |
| 1.0 | TS Team | June. 6.2023 | Initial Release |