

DV-1104

Architectural and Engineering Specifications

Version 1.0
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PART 2 - PRODCUTS

Division 28 – Electric Safety and Security

Section 0000 – Security and Surveillance

1 Manufacturer

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2 General

2.1.0 Product Description

DV-1104 is a Video Analytic Box (VA Box) designed and manufactured by IDIS. A. The VA Box shall offer a robust, easy to use and to install application for monitoring and reporting specific Video Analytics events and behaviors. The NVR supports 4ch IP camera with H.264/H.265 compression. The VA box provides the maximum network throughput of 20 Mbps. The VA box is equipped with 1 Gigabit Ethernet. The VA box is compatible with IDIS 3rd generation NVR and IDIS Center.

2.2.0 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 up to 20Mbps maximum network throughput.
4. The VA Box shall support People Counting.
5. The VA Box shall support Heatmap.
6. The VA Box shall support Queue Management.
7. Supported resolution min. max.
8. Giga bit Ethernet network interface
9. The VA box shall provide Graphical User Interface (GUI) with multi lingual support.
10. The IP camera shall support industry standard Power over Ethernet (PoE) IEEE 802.3af, Class 2 to supply power to the camera over the network and 12VDC input.

3 Technical Specification

3.1.0 Hardware Specification

2.1.1 Network Specifications

1. Video Input Connection:
 - A. 1 Gigabit Ethernet
2. Max. Network Throughput: 20Mbps
3. Supported Camera protocol: DirectIP

3.2.0 Electrical Specifications

1. Power Source:

12VDC, PoE(IEEE 802.3af Class 3)
2. Power Consumption: 6.6W
3. Regulatory Approvals:
 - A. Electrical: FCC, CE, KC

3.3.0 Software Specification

2.1.2 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.)
2. Required frame rate: 10 or higher ips required.
3. Codec: H.264, H.265

2.1.3 Video Analytics Type

1. People Counting
 - A. Detection Zone Type: Polygon
 - B. Detection Zone size: Unlimited
 - C. Crossing Line: Supports 1 line
 - D. Multidirectional Crossline drawing
 - E. Number of Head: 1
 - F. Maximum number of object recognition: Unlimited
2. Heatmap
 - A. Detection Zone method: Polygon

- B. Detection Zone size: Unlimited
- C. Zone: Supports 1 zone
- 3. Queue Management
 - A. Zone: Supports maximum 3 zones
 - B. Detection Zone method: Polygon
 - C. Detection Zone size: Unlimited
 - D. Maximum number of object recognition: Unlimited

2.1.4 Additional Information

1. Each VA engine can be interlocked with one camera channel and one specific camera channel is able to be analyzed by up to three VA features (People counting, Heatmap, Queue management).

3.4.0 Installation Requirements (Prerequisites)

2.1.5 Supported Devices

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

1. DirectIP NVR models
 - A. DR-8364 Series v3.1.0 or higher
 - B. DR-6300 Series v4.0.0 or higher
 - C. DR-4300 Series v4.0.0 or higher
 - D. DR-2300 Series v4.0.0 or higher
2. DirectIP Cameras
 - A. All IDIS network cameras which support DirectIP protocol.

2.1.6 Supported Protocol

Supports only DirectIP Protocol.

** Be aware that IDIS Protocol, Onvif or Third party protocol does not work along with DV-1104.

3.5.0 Mechanical Specifications

1. Unit Dimensions (W x H x D): 200 mm x 44 mm x 153 mm (7.9" x 1.7" x 6.0")
2. Unit Weight: 0.74 kg (1.6 lb)

3.6.0 Environmental Specifications

1. Operating Temperature: 0°C to 40°C (32°F ~ 104°F)

Version History

Version	Writer	Revision Date	Remarks
1.0	Brandon Jo	Aug. 9, 2017	Initial Release