DV-3200

Architectural and Engineering Specifications

Version 1.0

(Aug. 13, 2021)

**PART 2 - PRODCUTS**

**Division 28 – Electric Safety and Security**

**Section 28.23.19 – Video Surveillance – Digital Video Recorder and Analog Recording Devices**

**Section 28.23.12 - Video Surveillance – System Infrastructure**

## Manufacturer

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## General

### Product Description

DV-3200 is a Video Analytics system (AI Box) designed and manufactured by IDIS. The AI Box is compatible with IDIS Deep-Learning Analytics (IDLA) supported by IDIS Solution Suite VA Service. The IDLA is a superior accuracy deep-learning engine. The IDLA performs the object classification suitable for CCTV applications with simple configuration and zero calibration. The DV-3200 supports up to 64ch in condition of 640x360@5ips video input. This AI Box is equipped with 2 Giga Lan ports.

The AI Box is an integrated security system, capable of time division multiplexing and real-time monitoring of multiple cameras. And analyzing their digitized and compressed images for fast search and retrieval either locally at the IDIS Solution Suite, or from a remote workstation using a Graphical User Interface (GUI). The AI Box is equipped with technology that allows connected cameras to be discovered and configured automatically. The AI Box is for video analysis purpose only, which does not guarantee performance for other functions besides video analysis.

### General Specification

1. This AI Box is for “IDIS Solution Suite” with IDLA VA service.
2. The AI Box shall be a Microsoft Windows 10 lot Enterprise embedded
3. The AI Box shall support analytics up to 64ch in condition of 640x360@5ips video input.
4. The AI Box shall be equipped with 2 Gigabit Lan ports.
5. The AI Box shall have Intel i5-10500 3.1GHz, DDR4 PC-25600 16GB.
6. The AI Box shall have 8 x internal SATA
7. The AI Box shall have 2 HDMI output
8. The AI Box shall have 2 GbE RJ-45 Ports (1000Base-T).
9. The AI Box shall have 2U rack mount chassis.
10. The AI Box shall have single power.
11. The AI Box shall have 6 USB ports (2 x Front USB 2.0 and 4 Back (3 x USB 3.0 Type-A + 1 x Type-C)

## Technical Specification

### Video Specification

1. Network Video Inputs: up to 64 IP cameras
	1. The AI Box can connect the cameras up to up to 64ch in condition of 640x360@5ips video input.

### Hardware, OS

1. Processor: Intel® I5-10500, 3.1GHz
2. Memory: DDR4 PC-25600, 16GB
3. IDLA Processing Unit (VGA) : NVIDIA A2000, 6GB
4. OS : Microsoft® Windows 10 IoT Enterprise

### Storage Specifications

1. Main Storage : Internal SATA x8

### Network Specifications

1. Network Connection:
	1. 2 Gigabit Ethernet RJ-45 ports (1000Base-T)
2. Remote Client Viewer application: IDIS Solution Suite
	1. IDIS Solution Suite: Microsoft Windows OS

### Analytics Specifications

1. Sampling Rate: per 5 fps
2. Events: Loitering, Intrusion, line-crossing
	1. The AI Box shall support alarm trigger in and relay out functions in such event of loitering events, intrusion and line-crossing.
3. Detection Objects: Human, Vehicle, Bicycle.
4. Detection Color: Black, White, Gray, Red, Yellow, Green, Blue, Magenta, and Brown.

### External Interface Specifications

1. User Control Interface: Keyboard, Mouse
2. USB Interface: 6 USB ports (2 x Front USB 2.0 and 4 Back (3 x USB 3.0 Type-A + 1 x Type-C)
3. Monitor : 2 x HDMI
4. Ethernet : 2 x RJ-45 (1 Gbps Ethernet)
5. Audio I/O : 1 AUX connector(3.5Φ) / 1 AUX connector(3.5Φ)

## Mechanical Specifications

1. Operating System: Microsoft® Windows Embedded Standard 8
2. Unit Dimensions (W x H x D): 482.6 mm x 88 mm x 523.3 mm (19" x 3.5" x 20.6")
3. Unit Weight: 11.8 kg (26.01 lb)

## Environmental Specifications

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

## Electrical Specifications

1. Power Input: AC 100-240V, 50/60Hz, 6.0 ~ 3.0A
2. Power Consumption: Max. 270W
3. Regulatory Approvals:
	1. Electrical: FCC, CE, CB, UL, PSE, KC

# Version History

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| **Version** | **Writer** | **Revision Date** | **Remarks** |
| 1.0 | TS Team | Aug. 16, 2023 | Initial Release |