

# UShop EIS (Edge Intelligence Server)



## Features

- Including UShop EIS service software
- Analytic functions included:
  - People Counting
  - Heatmap Analysis
  - Face Analysis
  - POS Monitor
- Support OnVIF-compliant IP Camera and Webcam Input
- Support UShop+ Cloud Service

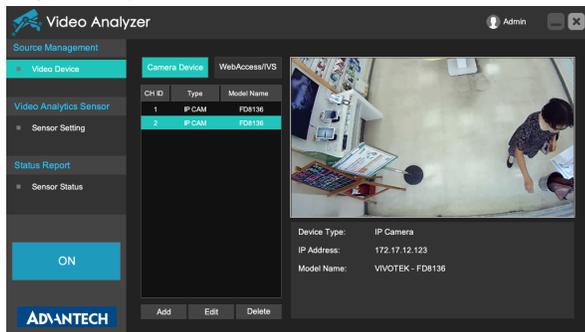
## Introduction

UShop EIS is an intelligent sever system designed for future retail store management. It bundles UShop EIS Service software with multiple analysis functions so that you can understand real time store operation and business intelligence information, such as visitor counting, in-store heatmap, customer demographics and POS transaction data. This information can be accessed by local database or SDK/API for customized application/service integration. Furthermore, UShop EIS Service is fully supported UShop+ Cloud service that provided more comprehensive retail intelligent solutions, including Store Traffic & Sales performance, In-Store Analytics, POS Loss Prevention...etc. And UShop EIS platform is powered by Intel® processor with Advantech's Quality Assurance and industrial design that provide the best reliability for 24/7 operations for various retail environment.

## Analytic Functions

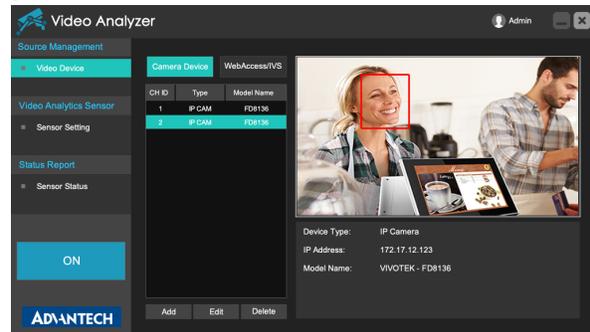
### People Counter

Measures total number of visitors at different entrances simultaneously by video analysis of multiple cameras.



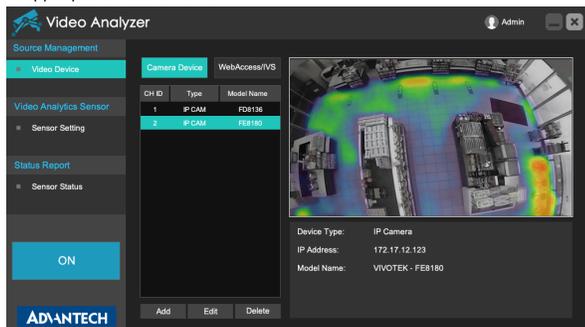
### Face Analysis

Detects and analyzes faces of customers at specific location to identify their age range, gender and focus.



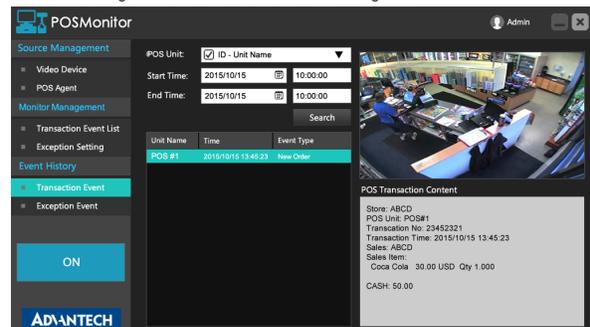
### Heatmap Analysis

Analyze the shopping experience of customers at designated regions, including shopper path and dwell time.



### POS Monitor

Converts POS transaction information to flexible data format for providing exception event searching feature of surveillance video integration.



## UShop EIS (Edge Intelligence Server)

### UShop EIS Service Features

General Functions	Camera Input	IP Camera (OnVIF), USB Webcam
	User Authority	Multi-level authority of user account management for different analytic functions
	Data Export Format	Chart report (PNG), Statistic report (CSV)
	Data Storage	Statistic counting data in SQL Database
	Data Integration	RESTful API(counting data by JSON format)
	Schedule Management	Configurable starting/stopping time of analytic functions for different week days
	Remote Management	Remote setting through LAN with UShop EIS Manager application console
	Software Upgrade	Support OTA automatic upgrade
Language	English, Traditional Chinese, Simplified Chinese	
People Counting	Video Source Resolution	Maximum: 1920x1080, Minimum: D1
	Counting Data	Provide real-time counting raw data and statistic data
	Data Resolution	Minimum analytical period: 1 minute
	Counting Area	Support multiple counting lines in one camera
Face Analysis	Video Source Resolution	Maximum: 1920x1080, Minimum: D1
	Face Size	Minimum: 60x60 pixels
	Face Rotation	Maximum deviation of face rotation in any direction (yaw, pitch and roll): 15 degrees
	Analytical Data	Face counting, Face dwell time (in screen), Gender, Age
Heatmap Analysis	Video Source Resolution	Maximum: 1920x1080, Minimum: D1
	Data Resolution	Minimum analytical period: 10 minutes
	Analytical Data	Visit frequency, Dwell Time
	Result Data Format	Visualization Image (Heatmap graph), analysis database
POS Monitor	Supporting NVR	Advantech WebAccess/VCM, Hikvision NVR
	POS Connection Type	Ethernet, Serial Ports
	Monitor Data	POS transaction data, POS operation message, video analytical event
	POS Data Storage	Maximum: 6 months (depends on POS transaction data format)

### UShop EIS Platform Specification

	Lite	Standard	Professional
Part Number	UBX-310UST-G1E-C	AiMC-342UST-G1E-C	ACP-2320UST-G1E-C
			
Number of Process Units	6	16	32
Maximum Analyzing Channels	3 (2 PU per channel)	8 (2 PU per channel)	16 (2 PU per channel)
CPU	Intel® Celeron® J1900, 2.4 GHz	Intel® Core™ i5-3550S, 3.0 GHz	Intel® Core™ i7-4790S, 3.2 GHz
RAM	8 GB DDR3L, 1333 MHz	8 GB DDR3L, 1333 MHz	8 GB DDR3L, 1333 MHz
Graphics	Intel® HD Graphics, HDMI/VGA	Intel® HD Graphics, VGA	Intel® HD Graphics, VGA/DVI
Storage	1 x SATA 2.5" HDD (500 GB)	1 x SATA 3.5" HDD (1 TB)	1 x SATA 3.5" HDD (1 TB)
Internet	1 x RJ45 (10/100/1000 Mbps)	2 x RJ45 (10/100/1000 Mbps)	2 x RJ45 (10/100/1000 Mbps)
I/O	5 x USB, 3 x COM, 1 x LPT	8 x USB, 2 x COM, 1 x PS/2	4 x USB, 1 x COM, 2 x PS/2
Power	60W (12V power adapter)	300W (Input 100 ~ 240VAC)	350W (100 ~ 240VAC)
Size	245 x 45 x 185 mm	150 x 222 x 270 mm	482 x 88 x 480 mm
Weight	2 kg	5 kg	11.7 KG
Operating System	Microsoft® Windows 7 Professional Embedded		
Software	UShop EIS Service		