iRetail

Solution
Ready
Platform

POS Loss Prevention
Reducing Shrinkage with Fraud Prevention

SRP-ULP510

✓ **Centralized Real-Time Monitoring**

✓ **Remote Video Inspection**

✓ **Analysis of Abnormal Transactions**

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UShop+
优店联网

ADVANTECH
Enabling an Intelligent Planet

(intel) IoT Solutions Alliance **Premier**

Azure

Reducing Shrinkage with Fraud Prevention Technology

Introducing SRP-ULP510 – A Cloud-Based Remote Video Inspection and Fraud Prevention for Retail Industry

In the retailing and food and beverage business, net profit margins are usually lower compared with other industries. However, these businesses also face the problem of disproportionate "loss" in their daily operation. This can include theft, fraud, vandalism, waste, abuse or misconduct. Advantech's Loss Prevention Solution provides data analytics of video content collected at the point-of-sale and throughout facilities to provide valuable information regarding out-of-bounds behavior. Prompt warnings of any abnormalities can then be sent via the cloud and mobile devices. The solution is designed to reduce preventable losses and optimize retailers' business operation.

Software Architecture

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Application Service

Management

User Management	Store Management

Loss Prevention

Transaction Data Management	Cross-Store/Period Comparison	Report Export
Real-Time Video Analytics	Multi-Data Comparison	User-Defined Dashboard
Exceptional Event Management		

Conversion Service

Message Processor

- Batch Data Processing
- UShop EIS Data Access
- Data Scheduling

API Server

- HTTPS Connection
- RESTful APIs

Store Intelligence Service

Software Authority
- Account Management Scheduling
- Remote Management
- Software Upgrade

Data Storage/Integration
- Data Storage/Integration
- Data Encryption

Integration & Analytics Engine
- Video Source Integration
- Transaction Data Integration
- Exceptional Event Analytics

Dashboard Design Features

Instant Warnings of Abnormal Operation

The system will tag abnormal events together with video monitoring in real time.

Analysis of Abnormal Transaction

All abnormal transactions will be listed on the dashboard for quick search. Managers can also find the store that has most abnormal transaction activities.

Quick Query

Managers can search specific transaction events by date, time, amount or branch store.

Key Business Metrics, Reports and Dashboards

Analyze transactions in each branch to see whether problems have been taken care of within a specific time frame.

System Diagram

POS Loss Preven

HQ Operation

LPS Web Server
Cross store Shrinkage
Management

Supermarket

Restaurant

Sh

USh
优店

Data & Servic

**NVR
Integration**

**POS Data
Integration**

Lite: 3CH

Standar

Key Advantages

**Payment Transaction Record-
ing and Monitoring**

Equipped with cloud-based remote video inspection, managers can check detailed single receipt information or search for specific transactions. All data will be stored in the cloud for later analysis and use.

**Pre-Defined Conditions of
Abnormal POS Transactions**

With centralized monitoring, management can pre-define the conditions for an abnormal POS transaction. Then, if an abnormal transaction occurs, alerts are immediately transmitted to headquarters and presented on the backend dashboard along with email warnings featuring corresponding images.

Analysis of Business Intelligence

Equipped with BI capabilities, the POS loss prevention solution provides key business metrics, warnings of abnormalities, as well as valuable functions such as abnormal events quick search, synchronous image display, and key screen tag retrieval.
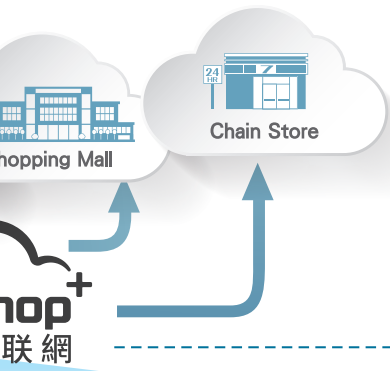
...tion Solution

Audit/Store Manager

Shopping Mall

Chain Store

e Integration

POS LPS CMS
Branch store Exceptional Event Analytic

Exceptional Event Analytics

Transaction and Abnormal Event Overview
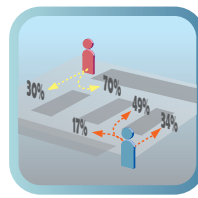
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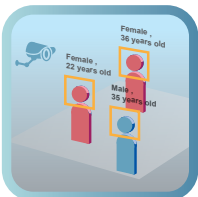
Recommend Solutions on UShop EIS

Store Traffic Analytics

Integrate 2D and 3D video analysis technologies with POS transaction data for store traffic analysis.

In-Store Heatmap

Identify in-store hot spots and commodity popularity through panoramic real-world scene analysis.

In-Store Shopper Analysis

Identify customers' gender and age through video analytics and WiFi.

POS Loss Prevention

Centralized real-time transaction monitoring and cloud-based remote video inspection for business intelligence.

UShop Edge Intelligence Server(EIS) Comparison Table

	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		
Software	Store Intelligence Service		

Successful Story

Fraud Prevention in 85ºC Bakery Cafe and Greenland Supermarket

To ensure unified and centralized management from headquarters, 85ºC Bakery café - a renowned coffee chain, and Greenland Supermarket - an international supermarket chain, deployed Advantech's UShop⁺ Loss Prevention Solution for monitoring cashier transactions, and displaying abnormal transaction events on the back-end dashboard in real-time by using POS data integration to capture images and send email alerts.

Visual data BI reports were then output for store management to study. Since the deployment of Advantech's UShop⁺ Loss Prevention Solution, the number of in-store transaction abnormalities as well as cashier errors has greatly declined.

Ordering Guide

SRP-ULP510 POS Loss Prevention Solution

Package Offering

Application Software	Computing System
1 x Loss Prevention Private Cloud, 25 license included 968SPULPS0 1 x POS LPS CMS 968SPULPM0	1 x UShop EIS Lite UBX-310UST-G1E-C

Configuration Options

Option 100 UShop⁺ Cloud Application

[101] Loss Prevention (Public Cloud, charge an annual fee by number of channel): 968SPULPL0 .... ☐ Qty: _____

[111] Loss Prevention (Private Cloud, 25 license included): 968SPULPS0 .... ☐ Qty: _____

[112] Loss Prevention (Private Cloud, 50 license included): 968SPULPS1 .... ☐ Qty: _____

[113] Loss Prevention (Private Cloud, 300 license included): 968SPULPS2 .... ☐ Qty: _____

[114] Loss Prevention (Private Cloud, Unlimited license included): 968SPULPS3 .... ☐ Qty: _____

Option 200 Computing System

[201] UShop EIS Lite: UBX-310UST-G1E-C .... ☐ Qty: _____

[202] UShop EIS Standard: AIMC-342UST-G1E-C .... ☐ Qty: _____

[203] UShop EIS Pro: ACP-2320UST-G1E-C .... ☐ Qty: _____

Option 300 Cameras

[301] 2D IP Camera – Vivotek FD8166A (9680017179) .... ☐ Qty: _____

Note: Select your required configuration, then log into *MyAdvantech* for order processing.

Order in 3 Easy Steps

Go MyAdvantech	Add to Cart	Confirm Order
1.	2.	3.
Step 1: Login & Register	Step 2: Configuration	Step 3: Check & Submit

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