



# AIMETIS RETAIL SURVEILLANCE SOLUTIONS

Delivering Higher Profits



Every dollar counts. At Aimetis, we understand this. That's why Aimetis Retail Surveillance Solutions are designed not only to help retailers save money by reducing losses, but also to increase revenues by providing real-time customer behavior information needed to improve service, maximize spending and retain shoppers.

Aimetis Retail Surveillance Solutions leverage Aimetis Symphony Intelligent Video Surveillance Software, for combined video management and video analytics. Aimetis Symphony is an easy-to-use physical security and business intelligence software that can be deployed for effectively managing cameras used within a single store, or across a global chain, allowing retailers to see what is happening at any given moment. Additionally, it seamlessly incorporates intelligent video analytics into one platform, eliminating the need for complex integration solutions and ensuring that retailers have real-time security information and business intelligence at their fingertips.

## ENTERPRISE SERVER LICENSE

"Intelligent Management" Target Application

Server Features	Supported operating system: Windows XP, 2003, 7, 2008 No software restriction on number of cameras per server* Unlimited multi-server (Server Farm) Unlimited number of client connections Server virtualization** Simultaneous video streams from single camera Video motion detection from camera (record on motion) Network video support*** (MJPEG / MPEG-4 / H.264) Support for mega-pixel cameras Analog camera support (capture card) Automatic software updates Microsoft® Active Directory or stand alone user model Automatic camera detection Customizable user access levels Symphony Web Access PDA client Server API / SDK
Alerting	PDA Alarm I/O E-mail Notification FTP TCP
Analytics	Camera loss detection Camera obstructed Motion tracking / object classification Virtual fence / Wrong direction Multiple area alarms Left item / removed item detection People counting Loitering Auto-PTZ tracking
Client	Customizable layout Graphical time line Hierarchical site map navigation Synchronized camera video playback (up to 4) Advanced video analytic search / People count reports
License	Mix / match different licenses on same server Interchangeable licenses between cameras License fee per camera No license fee per server No license fee per client

\* Actual limitations only constrained by PC hardware, no license limitation invoked. Use Aimetis Hardware Calculator for help.

\*\* VMware

\*\*\* Supports network devices from the following manufacturers: ACTi, Arecont, Ateme, Axis, Bosch, D-Link, Eneo, Ganz, IQinVision, Lumenera, Mobotix, Panasonic, Pelco, Sony, Vivotek. Please check [www.aimetis.com](http://www.aimetis.com) for updated supported device list.

## Reduce Losses

Shoplifting, employee theft, inventory shrinkage, staff error, and fraud have a significant effect on the profits of retailers, adding up to hundreds of billions of dollars globally each year. With Aimetis Retail Solutions, retailers are better able to proactively prevent and recover lost items, creating a measureable return on investment.

Using retail specific video analytics, Aimetis Retail Surveillance Solutions can positively impact any retailer's loss prevention initiatives by providing:

- Real time alert of item removal
- Faster, more effective forensics with Smart Search
- Notification of non-compliance with Electronic Article Surveillance Alarms
- Integration with Point-of-Sale system
- Notification of loitering in high-risk theft areas
- Notification of in-store, after hours motion detection

## Increase Revenues

Aimetis Retail Surveillance Solutions go beyond traditional loss prevention applications and provide retailers the customer behaviour information they need to grow their business and be more competitive. By providing tangible business intelligence like people counts, traffic flow patterns, and wait or loitering times, Aimetis Retail Surveillance Solutions allow retailers to:

- Optimize store layouts for increased spending
- Improve customer service on the floor
- Integration with Point-of-Sale system
- Reduce time spent in check-out lines
- Evaluate results of promotions and displays





## Evaluate Store Performance

The store is the medium through which consumers connect with products. It is well-known that store layouts can affect the time consumers spend in the store, how they navigate through the aisles, and how they allocate their attention and money across departments. With Aimetis Retail Surveillance Solutions, there are new performance measures available that can add tangible, actionable insight to monitoring and evaluating store performance.

### *Aimetis Retail Surveillance Solution Provides:*

- Store Traffic and Occupancy reports
- Shopping path
- Aisle penetration
- Display dwell times
- Conversion rate

Aimetis Symphony Algorithms: VE150, VE250, VE160/161

Note: Reports can be generated for all available algorithms on each camera

## Improve the Consumer Experience

Use Aimetis Retail Surveillance Solutions to improve the shopping experience by ensuring products are in stock, streamlining the shopping process, providing sufficient time and space to buy and accelerating checkout and customer service wait times. Happy customers will buy more and come back again and again, positively impacting revenues and profits.

### *Aimetis Retail Surveillance Solution Provides:*

- Checkout wait times
- Notification of objects blocking aisles
- Store or department density

Aimetis Symphony Algorithms: VE150/250, VE160/161

Note: Reports can be generated for all available algorithms on each camera

## Enhance Loss Prevention Initiatives

Aimetis Retail Surveillance Solutions augment existing loss prevention initiatives, reducing shrinkage and making more effective use of labor costs. The software can detect items removed from a shelf in real-time and can distinguish between normal and suspicious shopping behavior. It can alert on triggered Electronic Article Surveillance alarms, helping to ensure staff follow receipt checking protocol, flag after hours store activity and drastically reduce the amount of time required to review video when investigation is required.

### *Aimetis Retail Surveillance Solution Provides:*

- Real time alert of suspicious shopping behavior
- Faster, more effective video review
- After hours motion detection

Aimetis Symphony Algorithms: VE350/352, VE150/250

Note: Reports can be generated for all available algorithms on each camera

# Technical Specifications



Aimetis VE Series™ Video Analytics are highly specialized algorithms, each designed to perform optimally in different environments. Most of the VE Series™ algorithms are designed to perform more than one function. This decreases CPU requirements as it is possible to use only one algorithm for multiple applications. Use the table below to select the right analytic to meet your needs.

	Pixel Change / VMD			Advanced Motion Detection					Object Persistence	
VE Series Algorithm	VE130	VE140	VE141	VE150	VE160	VE161	VE250	PT090	VE350	VE352
<b>Functionality</b>										
Camera Loss Detection		■								
Camera Obstruction/ Scene Change			■							
Pixel Change/Motion Detection	■			■	■	■	■			
Motion Tracking				■	■	■	■			
Object Classification				■						
Virtual Fence				■	■	■	■			
Wrong Direction				■	■	■	■			
Multiple Area Alarms				■	■	■	■			
Left/Removed Item									■	■
People/Vehicle Counting					■	■				
Loitering/Dwell Time						■				
Auto-PTZ Tracking								■		
<b>Environment</b>										
Indoor	■	■	■		■	■	■		■	■
Outdoor	■	■	■	■	■	■	■	■	■	
Busy	■	■	■		■					
Non-Busy	■	■	■	■	■	■	■	■	■	■
Camera Angle	Any	Any	Any	30-60 °	Overhead	30-60 °	Any	30-60 °	Any	Any
Camera Height	Any	Any	Any	6-10m	3m	3m	Any	6-10m	Any	Any
<b>Minimum Hardware Requirements (PC Environment)</b>										
CPU	2.4 GHz	2.4 GHz	2.4 GHz	2.4 GHz	2.4 GHz	2.4 GHz	2.4 GHz	2.4 GHz	2.4 GHz	2.4 GHz
Frame Rate	1 fps	1 fps	1 fps	5 fps	8 fps	8 fps	8 fps	8 fps	6 fps	6 fps
Resolution	4 CIF	CIF	4 CIF	4 CIF	CIF	CIF	CIF	CIF	CIF	CIF
CPU Usage	0.07%	0.0026%	0.10%	8.19%	17.22%	13.87%	9.04%	9.04%	6.86%	6.7%

©Copyright Aimetis Corporation 2003-2010. All rights reserved.



## Aimetis Corporation

500 Weber Street North ■ Waterloo, Ontario, Canada N2L-4E9  
Phone: 1-519-746-8888  
E-mail: info@aimetis.com

## Aimetis GmbH

Am Prime Parc 7 ■ 65479 Raunheim, Deutschland  
Phone: +49 (0) 6142 207 98 60  
E-mail: info-de@aimetis.com