



# SubSec Enterprise Security Solutions

## About SubSec

SubSec is a multi-discipline technology company with the expertise to integrate ISS (Intelligent Security Systems) technologies into systems that solve unique and challenging Security problems. SubSec is an Intelligent Security Systems (ISS) company and a world leader in the highway traffic management and in-vehicle systems solutions industry. SubSec technology base evolved from Weigh-In-Motion (WIM), vehicle detection and vehicle measuring systems. Over the past 30 years, SubSec has diversified both from a markets and geographical perspective. SubSec Systems are designed and built by a multidisciplinary, customer-focused team which fuses core SubSec technology with integrated computing and communications technologies. SubSec operates in the following markets

- HTMS/Traffic Safety Systems
- Commercial Vehicle Enforcement/Operations
- Traffic Data Collection Systems
- Highway Toll Collection Systems
- Border and Security Systems
- Weigh-In-Motion (WIM) Scales & Sensors
- Fleet Telematics
- Service and Maintenance



## 30 Years of ITS Innovation Worldwide

From portable scales to complex multi-lane mainline systems, SubSec Experts will help you with design, supply, integration, installation, maintenance and training for your commercial vehicle enforcement program.



# SubSec Remote Control Technology

## SubSec Remote Control Technology Ensures Accountability

- Screen vehicles from one central location 24/7
- Review documents and log books remotely
- View and communicate with drivers in real time
- Remotely open & close the station, sort and bypass vehicles, and collect data
- Screen multiple directions of travel
- Ensure vehicles are not illegally bypassing the scale
- Include under-utilized location.

The screenshot displays a comprehensive monitoring interface. At the top left, a large image shows the undercarriage of a vehicle. Below it are controls for Brightness, Contrast, and Zoom, along with buttons for Invert, B/W, and Previous. On the right, a 'Licence Plate' field shows '697BBJ' and a 'Driver Image' shows a man in a cap. Below these are 'Details' fields for LPR Number (697BBJ), First Name (ROBERT), Last Name (SMITH), Make (NISSAN), Model (CARGO VAN), Color (WHITE), and Date (09/22/2014). A 'Last Entries' table is also visible.

Name	PlateNumber	DateTime	Confidence
Joe Dow	BD979V	3/20/2014 3:20:49 PM	100
	C797HH	3/20/2014 3:19:49 PM	100
Joe Dow	BD979V	3/19/2014 10:27:59 AM	100
	C797HH	3/19/2014 10:27:34 AM	100
John Hoffman	EV805H	3/19/2014 10:27:33 AM	100
	AEK2488	3/19/2014 10:26:49 AM	100
	AUJ3426	3/19/2014 10:24:37 AM	100
	DN803L	3/19/2014 10:23:47 AM	100

LoopDetector Status: No Loop Detector | LPR Status: Connected

## Applications:

- Road systems with relatively low traffic volume
- Locations where full-time monitoring is not required
- Agencies with remote hauling operations
- High-volume sites that have high enforcement
- limited resources

## Complementary Systems:

- Automated Stations
- Vehicle Preclearance Programs

# Imaging

. SubSec electronics comes out of the box ready to integrate to the full range of imaging solutions, and to add the following types of imaging to new or existing systems:

## Overview Imaging System:

Auto select between color images during the day and monochrome

- images at night. Infrared illumination to ensure a high-quality image regardless of weather
- or lighting conditions.

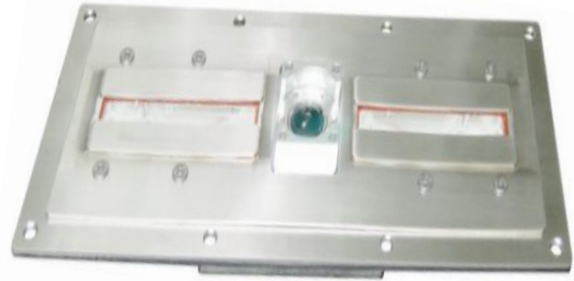
## License Plate Imaging System:

Automated Control of image exposure to ensure a high-quality image

- regardless of weather or lighting conditions. Infrared and visible illumination for effective license plate image capture
- in diverse weather and lighting conditions.

## USDOT Imaging System:

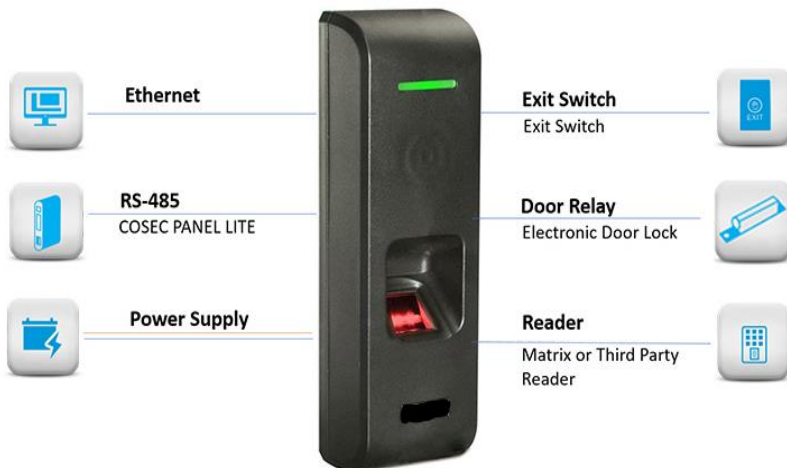
- Captures USDOT Numbers displayed anywhere on the side of a passing commercial motor vehicle.
- Captures images from both sides of the commercial motor vehicle simultaneously.
- Captures images under day and night lighting conditions, 24/7



## Key Features & Capabilities

- ✓ Low-profile flush mount with easy installation
- ✓ Motion-activated advanced Intelligent HD Color Cameras
- ✓ Smart LED for day/night operation + Inspect Commercial/Passenger Vehicles Up to 30 MPH
- ✓ 40-ton axle capacity
- ✓ Searchable database with 300,000+ images
- ✓ Foreign Object Detection
- ✓ Automated Vehicle Comparison
- ✓ Ruggedized Housing & Lenses
- ✓ Remote Management Capabilities
- ✓ Magnetic Field Detection
- ✓ Debris Removal System
- ✓ Heater and Thermostat
- ✓ LPR Recognition
- ✓ Face Recognition
- ✓ Intelligent Video Analytics

## Fingerprint Access Control With SubSec Security

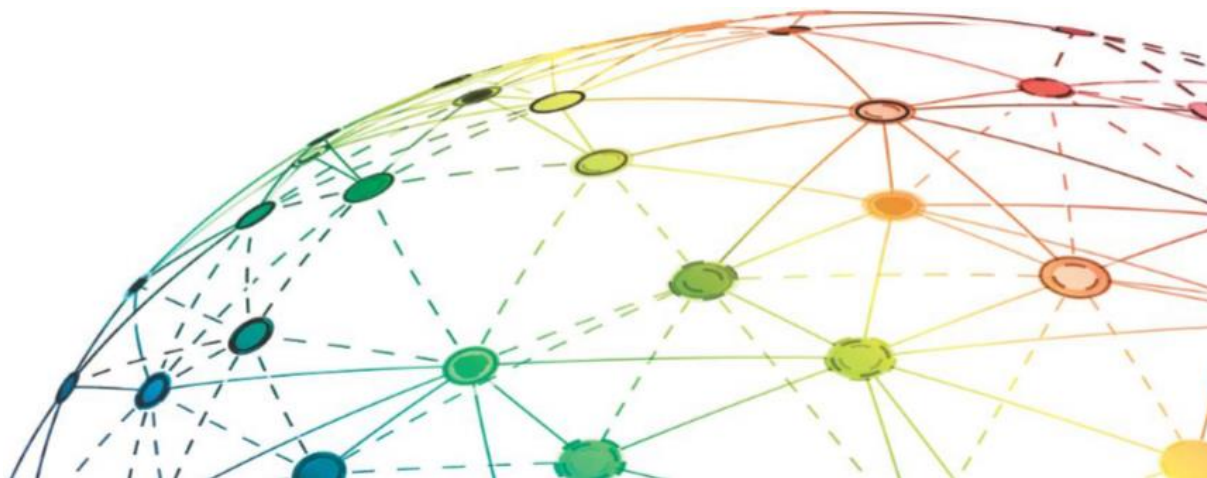


### **VEHICLE ACCESS MANAGEMENT (VAM)**

COSEC Vehicle Access Management is a web based solution for tracking and managing the movement of different types of vehicles coming and going out of an Security places premises. Organizations can get all details of registered vehicles along with its location on a single window.

### VEHICLE ACCESS MANAGEMENT (VAM)

- Vehicle Profile
- Real Time Summary
- Notifications
- Approve/Reject/Blacklist Vehicles
- Reports



## TECHNICAL SPECIFICATIONS

Variants	COSEC PATH DCFE	COSEC PATH DCFM	COSEC PATH DCFI
<b>Credential Support</b>	Fingerprint and RFID Card	Fingerprint and RFID Card	Fingerprint and RFID Card
<b>Template Per User</b>	Up to Ten (Single Template per Finger Mode) or Up to Five (Dual Template per Finger Mode)	Up to Ten (Single Template per Finger Mode) or Up to Five (Dual Template per Finger Mode)	Up to Ten (Single Template per Finger Mode) or Up to Five (Dual Template per Finger Mode)
<b>Card Type</b>	EM Prox	Mifare Smart	HID iCLASS, HID Prox
<b>Template Storage Capacity</b>	9,600	9,600	9,600
<b>Cards Per User</b>	Two	Two	Two
<b>Events Buffer</b>	50,000	50,000	50,000
<b>RS-485</b>	Yes (115.2Kbps)	Yes (115.2Kbps)	Yes (115.2Kbps)
<b>Battery Backup</b>	No	No	No
<b>Ethernet</b>	Yes (10/100Mbps)	Yes (10/100Mbps)	Yes (10/100Mbps)
<b>PoE</b>	Yes (IEEE 802.3 af)	Yes (IEEE 802.3 af)	Yes (IEEE 802.3 af)
<b>Exit Switch</b>	Yes	Yes	Yes
<b>Door Status Sense</b>	Programmable NO, NC and Supervised	Programmable NO, NC and Supervised	Programmable NO, NC and Supervised
<b>Door Lock Relay</b>	Form C and SPDT Relay (Max 1A@30 VDC)	Form C and SPDT Relay (Max 1A@30 VDC)	Form C and SPDT Relay (Max 1A@30 VDC)
<b>Door Lock Power</b>	Internal 12VDC @ 0.5A or External	Internal 12VDC @ 0.5A or External	Internal 12VDC @ 0.5A or External
<b>Reader Interface types</b>	RS-232 and Wiegand IN/OUT	RS-232 and Wiegand IN/OUT	RS-232 and Wiegand IN/OUT
<b>Buzzer</b>	Yes	Yes	Yes
<b>LED</b>	Single LED (TriColor )	Single LED (Tri-Color )	Single LED (Tri-Color )
<b>CPU</b>	32Bit Microcontroller	32Bit Micro-controller	32Bit Micro-controller
<b>Flash Memory</b>	512kB Internal Memory + 4MB External Flash	512kB Internal Memory + 4MB External Flash	512kB Internal Memory + 4MB External Flash
<b>RAM Memory</b>	128kB SRAM	128kB SRAM	128kB SRAM



## CAM-SUB-01 Portable SECURITY System

### SPECIFICATIONS

#### Under Vehicle Scanner Unit

Type	Portable Under Vehicle Surveillance System
Environmental	IP67
Load rating	20-ton per axle
Design	Aluminum block drive-over surface mount cameras

#### Under Vehicle Imaging System

Cameras	Intelligent Color Progressive Line Rapid-Scan CCD Imaging
Resolution	High-Definition (5000 x 2048 pixels)
Environmental	IP67
Coverage	Full front-to-back (passenger or commercial)
Operating Temperature	-30°F to 140°F
Power	500W, 90-240VAC
Dimensions	47.2"×13.8"×11.8"

#### Under Vehicle Illumination

Lighting	Smart LED
Environmental	IP67
MTBE	100,000 hours

#### Control System

Input	2-Channel induction coil
Output	1 Channel switch type 12VDC
Communications	RS485/Ethernet
Control Unit	PC-based Rackmount
Storage	2TB hard drive
Storage Capacity	300,000+ records
CPU	Intel i7 six-core processor
RAM	8GB DDR3
Operating Temperature	14° F to 122° F
Power	110/220V
Ports	(2) USB 2.0
Network	Dual LAN, 1Gbps
Compliance	USGCB/DISA/FIPS 140-2

#### Cable Management

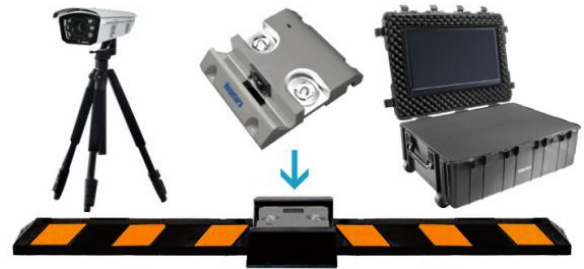
Cable	15M integrated power/data
Cable type	22-awg UTP/shielded
Connectors	1-1/4" mil spec

#### Functionality

Monitor	Single/multi configuration
Record	Motion activated with pre/post
Record speed	Up to 30 MPH
Display	Real-time video
Layout	Single/dual/quad view
Video Controls	forward/ff/pause/playback/rewind/frame advance
Plate Recognition	Front/rear ANPR with white/black list
Face Recognition	Automated face recognition with white/black list
Database	SQL query LPR/face/date/time/location
Detection	Automated foreign object / Automated Comparison
Notification	Audible/visible alarm

#### General Information

Options	Magnetic Field Detection, Dust Removal Air System, Thermostatic Control, Intelligent Video Analytics
Warranty	2-year all hardware/software
Part Number	CAM-UVIS-01



# About Truckers Against Trafficking

Modern-day slavery, or human trafficking exists whenever people are bought and sold for forced labor or commercial sex. Around the world, there are an estimated **20.9 million slaves** today. Human trafficking has been reported in all 50 states, and the number of victims in the United States is estimated in the hundreds of thousands.

While illegal, human trafficking is a booming business. Traffickers recruit out of our schools, online, in shopping malls, as well as the streets and other locations. A large percentage of the people trafficked are women and children. Many of them are used in the sex industry. They are the prostituted people on the street and in private homes, and in legitimate businesses such as restaurants, truck stops and motels. They need to be identified and rescued.



## YOU CAN MAKE A DIFFERENCE

This is where you come in! Truckers Against Trafficking recognizes that members of the trucking industry and individual truckers are invaluable in the fight against this heinous crime. As the eyes and ears of our nation's highways, you are in a unique position to make a difference and close loopholes to traffickers who seek to exploit our transportation system for their personal gain. This site has been created to inform members of the trucking industry and other travelers of the basic issues involved in human trafficking and a summary of ways you can help. We invite you to travel

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# Software

## SubSec iRec®

We are a leading provider of License Plate Recognition (LPR) software and related advanced camera solutions.

With our SUBSEC iRec® recognition software, a system is able to read a wide variety of license plates from all states and countries with the highest rate of accuracy.

iRec® can also be used to read:

- the ISO Container Code, BIC Code or Sea Container Code (ISO 6364)

Many other applications are available as well



## SubSec iFlex®

SubSec iFlex® Automatic License Plate Reader system's advantage over the competition comes from two critical components – superior image quality and advanced character recognition software. A high-resolution image is decoded into an alpha-numeric ASCII data file that shows the country and state along with the color of the plate where required and the system will integrate with fingerprint system, and face recognition.

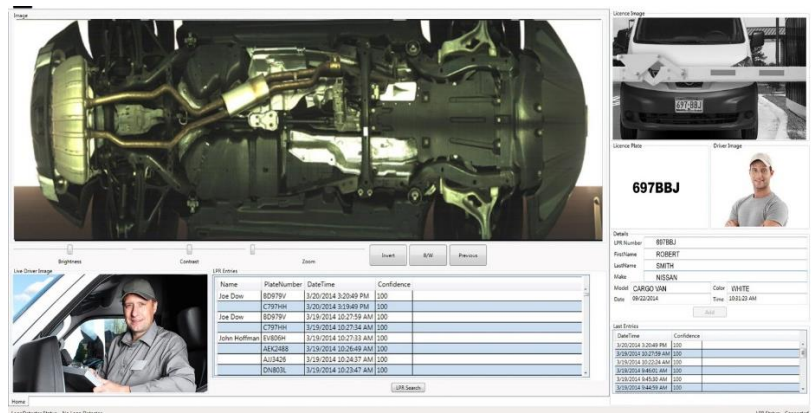


## SubSec iPro®

SubSec iPro® Automatic Under Vehicle Inspection System (AUVIS) technology rapidly scans a vehicle's undercarriage and automatically:

- Identifies the vehicle's make and model
- Detects any foreign objects or modifications
- Highlights these changes
- Establishes the vehicle's "digital fingerprint"
- Alerts personnel of any threats – all in a matter of seconds
- High and secure throughput

Meeting all biometric standards, such as the FBI's Integrated Automated Fingerprint Identification System (IAFIS) Appendix F, our AFS 310 live fingerprint scanner is a professional fingerprint acquisition device for biometric identity management systems.





AFS 310 is designed to achieve fast, reliable and consistent forensic-quality image capturing with fail-safe operation.

The applied advanced optical scanning technology and the robust mechanical design makes AFS 310 a reliable and efficient solution for many different biometric applications:

- immigration and border control
- criminal and justice
- general civil biometric identification, etc

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