

# TAXI



# Taxi Video System

## HIGHLIGHTS

- Highly secure encryption (Electronic Hardware Security Key)
- High resolution images
- Solid state storage
- Fast data transfer: (3000 images/minute)
- Event/Sensor triggers
- Optional wireless inspection tools
- Optional wireless data downloading
- Optional GPS tracking and event recording

## ShieldCam IR

- ▶ 1/3 CCD imaging technology
- ▶ IR illumination with proprietary technology to eliminate hot spots
- ▶ 3-axis ball-in-socket for greater range of adjustment



## PRODUCT OVERVIEW

At the heart of the TVS21 taxi video system is the same technologies found on our Police In-Car-Video Systems where Image Quality, Public Privacy, Data Encryption, and the Integrity of Chain-Of-Evidence and Security are the prime concerns.

TVS21 employs patent-pending technology that combines software encryption and Electronic Hardware Security Keys to ensure that only law enforcement agencies can view the recorded images, thus ensuring that the privacy of drivers and passengers is not compromised.

The Electronic Hardware Security Key (EHSK) and Password are required to gain access to the TVS21. Each Key has a unique ID, which the TVS21 unit registers each time it is used to gain access to the TVS21. Law Enforcement agencies with their Police key can view images as well as the access-log of the TVS21 unit.

The download process is very quick and secure. Only law enforcement authorities using a Police notebook PC or a Police office PC (with PoliceViewer Software and Police

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Key installed) can access the TVS21 to view and to retrieve recorded images. The TVS21 can upload to the Police notebook PC or the Police office PC via a network cable at the rate of more than 3000 images per minute.

The TVS21 is compact and designed for easy installation. The camera head is small and can be mounted above the rearview mirror, side mirrors, or concealed. The unit has no ventilation holes and is designed to operate in the harshest urban conditions.

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# TVS21

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## key features:

- Image Quality**
  - High quality images (720x480 resolution) are taken at 5 frames per second to ensure sufficient information of evidence is available for incident resolution
  - 750 images are taken prior to door-open, door-close, and panic button events (even during standby mode when ignition is off).
  - Can store over 360,000 images, optional up to 1,500,000
- Ruggedness**
  - The Control unit is housed in a tough extruded aluminum enclosure, 100% solid state storage, no moving parts, designed to work through power disturbances, voltage transients, mechanical shock and vibration, hot and cold environments, and exposure to moisture and dust.
- Security**
  - Patent-pending technique with proprietary tamper-proof data access protocol and encrypted images to eliminate public privacy concerns and to ensure chain-of-evidence integrity.

## SPECIFICATIONS

Camera	Imaging technology: 1/3 CCD Single Camera Lens: High Definition 2.9mm/ 3.6mm/ 4.3mm Lens Dual Camera Lens: High Definition 4.3mm/5.5mm/6mm Lens Illumination: IR with proprietary technology to eliminate white-out (hot-spot) areas			
Trigger Logic for Recording	Electrical: <ul style="list-style-type: none"><li>• Selectable Active Hi, Lo, Edge Trigger Lo to Hi, Edge Trigger Hi to Lo, Level Trigger</li></ul> Typical event trigger sources: <ul style="list-style-type: none"><li>• Door Open, Door Close, Taxi Meter On/Off, Panic Button, Brake, G-Force, Ignition On, Ignition Off</li></ul>			
Recording Methods	Recording at 5 images per second 750 images prior to trigger and continue to recording 750 images after trigger When the storage space is full, old image files are erased for new image files			
Storage	Storage Media: Compact Flash, 8Gbytes to 32Gbytes, removable with security tool Image storage capacity: 360,000 images to 1,500,000 high quality images Capability for Tamper-Evident Security Seal			
Secure Storage	Each time the panic button is pressed, it creates 1,500 panic images in 5 minutes The panic images are stored in a secure storage area and can only be erased when the secure storage area is full. This secure storage area can store up to 15,000 panic images.			
Recording information	Date/Time, Location/Speed, Taxi ID, TVS21 Serial #, Camera Serial #, Event Flags, Video Data, Audio Data			
Image Security and Privacy	Proprietary Electronic Hardware Security Key required to access TVS21 All images are encrypted Installer Key + TVSViewer software can setup TVS21 but can not view recorded video/images Police Key + PoliceViewer software can view and retrieve video/images but can not setup TVS21 Inspector Key + TVSViewer software can view live video, check for proper operation, access the controller log (recording log file) and audit report generation			
Transfer Protocol	Proprietary protocol			
Images Download	10/100Base-T network cable with Police Electronic Hardware Security Key + PoliceViewer software Download rate at 3,000 images per minute			
Setup	10/100Base-T network cable with Installer Electronic Hardware Security Key + TVSViewer software			
Inspection	10/100Base-T network cable with Inspector Electronic Hardware Security Key + TVSViewer software			
Operating Voltage	+10V to +36V at 10W			
Protection	Protection of Reverse-Polarity, Transient, Over Voltage on all connectors			
Dimensions	6.15" x 4.4" x 1.25"			
ORDERING INFO	Controller Part # :	TVS21-8 (8Gbytes Storage) TVS21-16 (16Gbytes Storage) TVS21-32 (32Gbytes Storage)	Camera Part # :	500-SCI-43 (4.3mm Lens) 500-SCI-36 (3.6mm Lens) 500-SCI-29 (2.9mm Lens)

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