POLICE IN-CAR VIDEO SYSTEMS

Mobile Digital Video Systems for Law Enforcement and Public Safety Applications

www.patrolwitnes.com | 1-866-693-7492
The PW6 with PanCam provides the safest way to operate an In-Car Video System with no officer intervention required to get the most complete picture, every time.

Patrol Witness’ advanced mobile digital video solutions change the way video enhances officer performance in the field. Our combination of the new PW6 DVR with PanCam provides the evidence package the industry has been waiting for with officer safety and efficiency in mind.

PW6 complies with Federal Rules of Evidence including: Chain-of-Custody of Evidence as well as the IACP in-car video system guidelines.

PanCam, Panoramic High Definition Quality Camera
35% wider view and 50% higher horizontal resolution than 720p HD cameras. PW6 with PanCam is the breakthrough Law Enforcement has been waiting for.

Video Evidence automatically uploads wirelessly to the law enforcement agency server.

JUST IN CASE Recording, allows officer to retrieve past untriggered / unmarked video events from the last 5 shifts (over 40 hours), a technology we developed in 2006.

Firmware Over the Air (FOTA), for automated software upgrades and vehicle setup.

Video Evidence Data Server is secure and department friendly, which incorporates multiple advanced searching capabilities and definable retention policies allow for fast and easy retrieval of video events.

Reliable, No moving parts, 100% Solid State.

Vehicle Battery Friendly, internal timer to disconnect system from Vehicle Battery up to 6 hours after ignition off.

Redundant (Backup) Event Video Recording, system can be configured to record all triggered events on two separate storage devices.

Power LOSS Recording, continue recording even in the event of power interruption.

FAIL SAFE STORAGE to ensure ZERO-DOWN TIME, ZERO LOST EVIDENCE with dual secure high capacity solid state drives.

In-Vehicle Event Tagging, tag the current or previously recorded video event with incident classification (DUI, Reckless, Domestic, etc...), case/ticket #, notes, video event priority. Event tagging can be used in the back office software for searching, categorizing and retention policies.

Rugged Display Controller with touch screen technology and configurable display and functionality, adaptable to your current and future requirements.

MTD Friendly, MTD (In-Car Computer) can control the entire PW6 In-Car Video System using Patrol Witness PWViewer software.

Pre/Post Event Recording, configurable by the agency.
GET the COMPLETE PICTURE—EVERY TIME!

PanCam [Panoramic High Definition Quality Camera]

HIGHLIGHTS
- ZERO Obstruction of driver’s view
- No Moving parts, no buttons to push
- Capture legible license plates across three lanes
- Complete vehicle hood view with 110° wide angle lens
- 50% higher horizontal resolution than 720p HD camera
- Built-In Crash Sensor

OVERVIEW
PanCam captures TRIOView and HOODView at the same time without user intervention. TRIOView provides legible license plates across three traffic lanes while HOODView provides ultra wide angle close up view in the front of the vehicle.

To increase officer safety, the PanCam was designed small enough to be installed behind the rear view mirror to provide an unobstructed view.

PanCam Complete Coverage VS Conventional Coverage

Display Controller
[System Controls & Viewer]

HIGHLIGHTS
- Full touch screen interface provides complete control of the Video System.
- Easily search & playback recorded events.
- Liquid spill proof design.
- Simple to add classification data & notes to video events.

OVERVIEW
The PatrolWitness Display Controller boasts a crisp best-in-class display at 1280x800 resolution. The rugged enclosure is tough enough to handle the bumps in the road.

The PW Display Controller is powered by PWViewer, allowing easy control of cameras, live viewing, video playback, and for recording and marking of incidents and events.

Scalable platform allows for new features and functions as well as future advancements and applications.

Touchscreen Controls

Easy switch from live view to playback mode by pressing this button.

Start / Stop recording of PANCAM (front facing camera)

Start / Stop recording of ZOOMCAM (forward facing camera)

Start / Stop recording of Rear Seat Camera

Auto zoom, automatic zoom in and out to capture an event or license plate.

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PW6 In-Car Video Recorder, System Diagram

All data is automatically transferred from vehicles to the Video Evidence Data Server over Wi-Fi or Cellular

HandsFree Automated File Transfer

Multiple Camera Options Available
- LP Zoom Camera
- Panoramic Camera
- Rear Seat IR Color Camera
- HD Camera
- LPR Camera
- Body Camera

Video Storage Devices
- Two SD Flash Cards Redundant or Aggregate Storage
- Optional external fireproof and waterproof solid state or HDD backup storage

GPS
- Satellite
- Receiver
- 3G/4G/LTE Cellular Modem for live tracking/streaming

SENSOR INPUTS
- Emergency Lights, Ignition, Gun Rack, Brakes, Speed, Front Door, Back Door

Power Cable
- With Ignition Signal

WiFi AP
- Vehicle Mounted

Long Range
- WiFi Antenna

Wired Microphone
- Up to 2 units

Display Controller
- Touchscreen Operation
- Ruggedized Housing

MDT

Security Keys
- For Officer ID Login
PatrolWitness™ is a key division of 247Security Inc. dedicated to providing premium-grade Digital Video Solutions for Law Enforcement, and public safety services.

Patrol Witness™ was conceived to merge 247Security technology, developed over the last 20+ years, with intense scrutiny and input from active law enforcement and public safety personnel; resulting in rugged, state-of-the-art products specifically designed for their demanding applications and officer safety.

Our mission at PatrolWitness™ is to deliver the most advanced evidentiary recording systems—to withstand the rugged daily environments of public service vehicles, to improve public safety, and to enhance the safety and performance of our finest men & women in the line-of-duty.

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OVERVIEW
The PW6 with PANCAM provides the safest way to operate an In-Car Video System with no officer intervention required to get the most complete picture, every time.

Patrol Witness’ advanced mobile digital video solutions change the way video enhances officer performance in the field. Our combination of the new PW6 DVR with PANCAM provides the evidence package the industry has been waiting for with officer safety and efficiency in mind.

PW6 complies with Federal Rules of Evidence including: Chain-of-Custody of Evidence as well as the IACP in-car video system guidelines.

SYSTEM HIGHLIGHTS
• Up to 1080p HD resolution
• H.264 High Profile Video Compression
• 16:9 aspect ratio
• Video events automatically upload to law enforcement agency server using Wireless 802.11n or 4G/LTE
• JUST IN CASE Recording, retrieve un-triggered video events from the previous 5 shifts, even if the officer forgot to trigger the event.
• 5” or 8” touch screen display controller
• Firmware Over the Air (FOTA), for automated firmware upgrades and configuration updates
• Power LOSS Recording, continue recording even in the event of power interruption
• Reliable, no moving parts, 100% Solid State
• FAIL SAFE STORAGE to ensure ZERO-DOWN TIME, ZERO LOST EVIDENCE with dual secure high capacity solid state drives
• Automated emergency event upload to dispatch secure server using 4G/LTE with multiple notification options
• Automated live tracking, know where your vehicles are all the time
• Live view at any time from dispatch using 4G/LTE in case of an emergency
• Designed to meet Military Specification Standards
• Works with PanCam 4-in-1 Camera, for Superior coverage over traditional manual zoom cameras.

Get Total Coverage! with PanCam

www.patrolwitness.com
## PW6 IN-CAR VIDEO SYSTEM

### SPECIFICATIONS

**DVR**
- 6 SD video channels up to 30fps @ 720x480 (D1) resolution per channel
- HD camera up to 30fps @ 1280x720 (720p), 1920x1080 (1080p) resolution
- H.264 video compression (high profile)
- PACAM [CAM1-4] port
- ZoomCAM [CAM 1] port
- Rear facing camera / backup camera port [CAM5]
- Back seat camera port [CAM6]

4 Network Ports:
1. Rear 10/100Base-T, built-in POE for HDCAM (3.6mm & 8MM HD camera) or IP HD Zoom camera
2. Rear 10/100Base-T, built-in POE for external Wi-Fi AP
3. Rear 10/100Base-T, built-in POE for laptop, tablet
4. Front 10/100Base-T, built-in POE for servicing

3 USB ports:
1. USB on front panel for firmware updates/servicing
2. USB on Rear panel (optional waterproof fireproof video storage, external flash video storage)
3. USB on Rear panel (optional 3G/4G/LTE modem)

GPS [RS232 port]
- G-Force Sensor [RS232 port]
- 8 Digital input sensors for lights, siren, brakes, doors, gun rack, etc.
- 2 Alarm outputs
- 3G/4G/LTE support
- 2 wireless microphone ports
- 2 SD card slots, each up to 128GB, one slot for main storage and one slot for backup storage
- Built-in UPS (lithium battery up to 5 min normal operation)
- Optional Radar interface via video input
- Operating temperature: -20°C to + 60°C
- Dimensions: 5"[w] x 5.5"[d] x 1.5"[h]

**Storage**
- Dual flash cards (32GB/64GB/128GB each) up to 256GB total storage
- Optional external fireproof waterproof 64 to 512GB solid state storage via USB port
- Optional HDD backup storage up to 1 TB via USB port

**Power**
- Built-in E-Guard (Power noise suppression, UPS)
  - Built-in lithium battery (up to 5 min continuous recording after power interruption)
  - Optional external Lithium battery for up to 2 hours
- Power consumption
- Power modes
- Operation, 470 mA @ 12V (excluding cameras, MIC, GPS, and accessories)
- Power isolation after 6 hours when ignition off, 1 mA (time delay set by manufacturer)

**Operation**
- Rear passenger doors can trigger back seat camera automated recording with no user intervention required

### SYSTEM COMPONENTS

- PW6 DVR
- Rear Seat, ShieldCam
- PANCam
- LP Zoom Camera
- HD DualCam
- EZKey, Security Key
- Wireless Audio

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Patrol Witness™ is 247Security’s dedicated line-up of Digital Video Solutions for Law Enforcement and public safety services. For more info: Please contact us, Toll-Free: 1-866-693-7492 | www.patrolwitness.com | 4400 North Point Pkwy, Suite #158, Alpharetta, GA 30022 USA
OVERVIEW

Designed from the ground up by police officers, for police officers; in collaboration with an engineering team with over 15 years of experience in mobile digital video, Patrol Witness delivers a robust, officer-friendly system that can withstand the rigorous daily environment of mobile law enforcement and public service vehicles.

The latest Patrol Witness III (PW-III) DVR provides the most advanced mobile digital video recording system available, offering high-resolution video with embedded audio, and telemetrics/data collection features, including GPS, Light Bar, text and a various vehicle status information.

SYSTEM HIGHLIGHTS

- Complete Integrated wireless download Digital In-Car Video System
- 7 Days Storage Capacity
- Dual Solid State storage devices, secured in two separate locations within vehicle
- Integrated ‘Trace Mark’ Feature utilizes GPS coordinate, allowing for easy retrieval of key events
- Software upgrades performed via the wireless network
- Using OUR latest Video technology we provide a robust, proven reliable technology used in other high profile mobile industries
- Video Software Suite is secure and department friendly, we incorporate multiple advance search features that allow for easy retrieval of video events.
- Included in the Video Software Suite is an Audit Log. Know who, what and when video events are accessed.
OEM-Replacement Rear View Mirror
Built-in 4.5" LCD Monitor with Speakers
Secure, Lockable CF Card Storage

ShieldCam™
550 TV Lines resolution
Built-in microphone with crisp clear audio
Multiple mounting options
3-Axis, Ball-in-socket for precise aiming
IR model, for low-light conditions
2.4 GHz spread spectrum technology
In-Car rechargeable Transmitter
Up to 1500ft operating range

PW III SPECIFICATIONS

- No ventilation fan, prevents dust build-up, for cleaner operation
- Filtered Fan- Non Solid State Systems
- Low power consumption
- Trace Mark Button for marking critical events
- Event-Marking Button for easy event reviewing
- H.264 (modified) Compression for better storage capacity
- 704x480 recording resolution available on all channels
- Up to 30 Frames Per Second
- Record time: 16-64 Hrs
- Body Worn Wireless Microphone- 2.4 GHz
- Audio Channel for each Video Channel
- Solid State Memory, for rugged and reliable data storage
- Dual/ Redundant video Storage
- Solid State
- HDD Storage
  - Standard- (3) ea. 16 GB CF Solid State Storage media
  - Standard- (2) ea. 32 GB CF Solid State Storage media
- 10/100 Base T Network Interface
- Handsfree Wireless "n" download- Standard
- Handsfree Wireless "g" download- optional
- SmartServer Video Management Software- Option
- PW Viewer Software- Standard
- PW Viewer In-Car Software- Standard
- PW Tamperproof video files
- No extra office hardware or software required for playback
- PW CDC- Mirror/ Monitor solution- Standard
- Shield Camera
- Zoom Camera
- GPS-ready for recording speed & location data
- Sensors for lights, brakes, doors, etc.
- Snap Connectors and small footprint makes installation easy

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Patrol Witness™ is 24/7 Security’s dedicated line-up of Digital Video Solutions for Law Enforcement, Fire & EMS, and public safety services. For more info, please contact us: 1-866-693-7492 | www.patrolwitness.com | 4400 North Point Pkwy, Suite #158, Alpharetta, GA 30022 USA
Patrol Witness™ introduces the PWLite Digital Video Solution, for Law Enforcement, Fire & EMS, and public safety services.

**OVERVIEW**

PWLite features fanless operation, ultra low power consumption, extended operating temperature ranges, high level of security encryption from recording to storage and retrieval of video, audio and metadata; preserving the integrity of recorded evidence.

The system is simple to install, easy to operate, and is backed with a 1 year warranty. *Upgradable to PW-III, includes HandsFree™ wireless upload, Redundant Video Storage, and 3 Year Warranty.*

**SYSTEM HIGHLIGHTS**

- H.264 Video Compression
- User defined resolution, Max 708 x 480
- User defined framerate, Max 30 fps
- 2 Channels Video & 2 Channels Audio (RF&Wired)
- User defined Pre & Post-Event Recording
- OSD for Date, Time, GPS, Storage usage, Usernames
- Metadata embedded in Video stream
- Record Triggers, Manual or mirror control, Wireless audio, Lightbar + 4 additional
- Proprietary Data Encryption and lockable storage media
- Solid State Removable Storage, 16GB Compact Flash

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**IN-CAR VIDEO SYSTEM**

**PW LITE**

**SYSTEM COMPONENTS**

**Rear View Mirror, with LCD Monitor**

- OEM-Replacement Rear View Mirror
- Built-in 4.5” LCD Monitor with Speakers
- Secure, Lockable CF Card Storage

**PW Lite DVR/Controller**

*See front page for highlights. System Specifications.*

**ShieldCam™**

- 550 TV Lines resolution
- Built-in microphone with crisp clear audio
- Multiple mounting options
- 3-Axis, Ball-in-socket for precise aiming
- IR model, for low-light conditions

**LP Zoom Camera**

- 12x Optical zoom
- Red LED record indicator
- One Button License Plate Zoom
- 560 TVL (color) / 600 TVL (black and white)
- WDR (wide dynamic range)
- True Day & Night (ICR)

**Security Keys**

- Unique Security Key, cannot be copied
- Ensure the recorded data can only be accessed and viewed by authorized personnel
- Recorded Video/Audio cannot be viewed without the Security key

**Wireless Audio System**

- 2.4 GHz spread spectrum technology
- In-Car rechargeable Transmitter
- Up to 1500ft operating range

**IN-CAR VIDEO SYSTEM SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Feature</th>
<th>PW Lite Specifications</th>
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<tbody>
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