

FRC

A Safe Fleet Brand

inView Video Systems **Viewing, Recording & Telematics Systems** **That Provide the Whole Picture**

SAFE  FLEET
Driving Safety Forward™

inView™ Series Video Visibility Safety Solutions.

The inView series of video, recording and telematics incorporates state-of-the-art technology for emergency apparatus. Our unique, customizable packages deliver increased safety, provide protection from potential liabilities and offer advanced vehicle tracking capabilities. FRC offers unmatched video options, from single camera systems to 360° HD bird's-eye view, recording, and data download. Make sure your apparatus is equipped with inView's state-of-the-art safety technology.

Prevent vehicle damage

- Improved driver visibility and awareness
- Low speed tight space maneuvering and reversing
- Improved calibration minimizes blind-spots
- Simplifies safe positioning of vehicles such as boom trucks and aerial trucks

Protect your assets with fewer accidents and increased liability protection

- Reduce preventable accidents through driver awareness
- Evidence collection
- 360 degree liability protection

Cost effective systems and installation

- All in one cost effective solution for 360 degree HD recording
- Optimized installation and calibration process

inView helps to navigate tight roads, back up into narrow parking bays and maneuver into compact parking spaces.



Customize your system for your apparatus

inView 360 HD™

inView 360 HD is an intelligent camera monitor system designed to assist low-speed maneuvering by providing the driver with a complete surround view of the vehicle in real time.

The system increases visibility around the apparatus providing the operator with a 360° bird's-eye view. In addition, the split screen monitor also displays one of four individual camera views automatically, dependent on driving operation; front, right, left or reverse.



inView Guardian™

Provides complete video and data recording capabilities while also offering vehicle tracking via GPS and event marking. Video are provided through four high definition cameras located on each side of the apparatus. Video downloads can be viewed via software by manually removing storage devices or automatically through Wi-Fi capabilities and options.



inView TrueSight™

Boost your visibility and eliminate blind spots with flexible video packages that can be configured to meet any need. Choose the number of cameras and monitors to meet your requirements. Available in wired and wireless to easily accommodate new and retrofit installations. Many mix and match options all at a competitive price.*



* Go to www.fireresearch.com and look under the specific product pages for downloadable preferred product specs.

inView 360 HD



Key Operator and System Features/Benefits:

- **1080P video output:** enabling you to capture/record high definition video
- **Built-in DVR:** securely records "all connected cameras" individually making it great for insurance purposes when used in legal proceedings.
- **4 SD slots for up to 256 GB SD card:** Up to 1 TB of total storage
- **GPS tracking:** is included in the system
- **Video surround view in a single image:** Protect against vehicle damage and costly repairs by eliminating vehicle blind spots. Let the 360° view assist with parking, checking your blind spots or to help navigate narrow roads.
- **Toggle between views:** Push driver button to change to camera views
- **User selectable "on screen overlay":** Setting the width, length, and position of the overlay is all programmable by the customer for their specific apparatus. Saves valuable time when deploying outriggers, water dumps, tool boards or filling water tank vehicles.
- **Vehicle Overlays:** 8 preloaded vehicle overlays or load you own images

The inView 360 HD™ provides the apparatus driver with split screen view. The bird's-eye view is always visible providing a 360° view around the vehicle. This unique view allows the operator to see pedestrians and obstacles in close proximity to the apparatus or vehicle. The second view on the display switches between a front/left/right/rear view depending on the operational conditions. An in-cab toggle switch allows the operator to override the default camera view for complete control over the system.



Supports 4, 5 or 6 Cameras

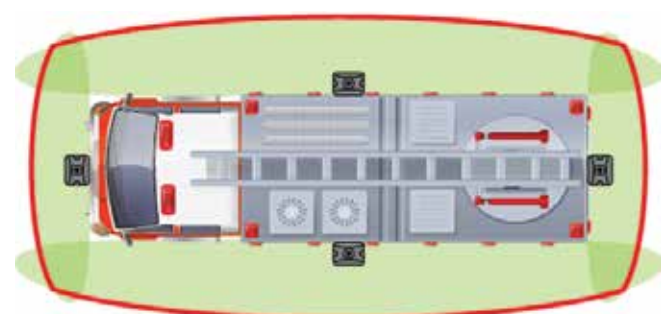
Standard system consists of a 2D, stitched 4 camera view. The system can accommodate an additional 1 to 2 cameras for larger vehicles such as articulated buses. All connected cameras are recorded.

Ability to Overlay "Out-Rigger" Graphics

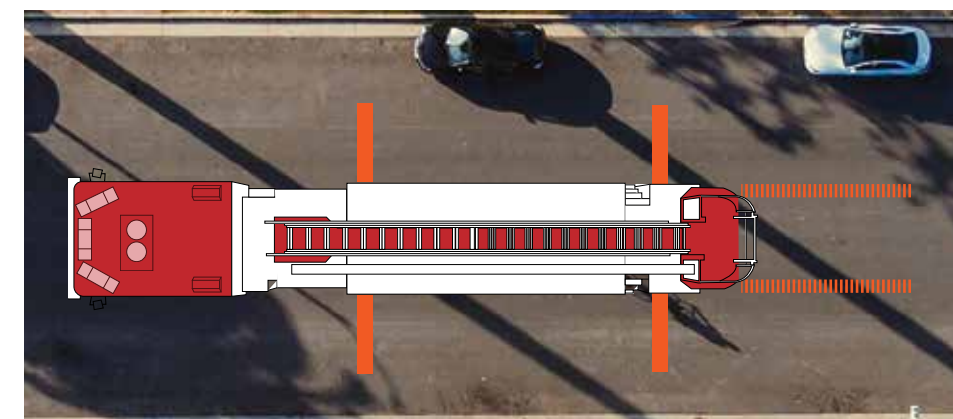
Help reduce risk of accidents and costly repairs with graphic "Outrigger" overlays for vehicles like fire trucks.

Automatic Monitor Shut-Off

Based on predetermined vehicle speed, an optional monitor will automatically shut off the monitor to help minimize operator distraction.



The four live images are combined, blended and stitched capturing all surrounding area including blind spots of the vehicle



An outrigger overlay provides operational safety by giving the driver visibility to the area required for deployment. This unique feature saves critical positioning time.



Four cameras placed around the apparatus capture a 195° ultra-wide angle view of each side of the apparatus.

inView 360 HD System Components

Wide Angle Cameras

- Four cameras deliver a clear, crisp high-definition image.
- Die cast aluminum housing
- Dimensions : 2.4" x 1.9" x 2.0"
- Operating Temperature: -22° - +158° F
- Rating : IP67
- 195° ultra-wide angle

ECU - Electronic Control Unit

- Blends all views and presents them to driver in a real-time image.
- Dimensions : 6.3" x 1.3" x 4.5
- 2 video output
- 9V-36V
- Operating Temperature: -22° - +167° F
- Triggers driven from the 4 camera views
- Customizable vehicle template

OPTION - Video Monitor

- 7" high resolution monitor
- 7" rear view mirror monitor
- 10" in cab monitor
- 7" waterproof monitor

inView 360 HD Kit SNB100-C00

Includes: (1) Front camera (1) Cable kit (1) Rear camera (1) Toggle switch (2) Side cameras (1) ECU (1) Control

Optional System Components

Calibration Kit

7" HD Monitor

10.1" HD Monitor

7" STD Monitor

7" STD Waterproof Monitor



Ultra-wide 1080p Camera with Housing (4)



Electronic Control Unit (ECU)



High Resolution monitor

inView Guardian™

Capture Both Video and Telematics Data

The inView Guardian captures both video and telematics data. Long range HD cameras are used to provide a large area of video coverage of what is happening around the vehicle. Cameras provide excellent zoom capability to capture clear license plate information. This helps ensure you capture events leading up to any incident. In addition, video, speed, location and date/time information are captured through GPS and internal clock. The G-Force sensor captures impacts and hard braking information and all the data is stored on an internal memory which can be downloaded for PC viewing.

Guardian TH4, TH6 or TH8 High-Definition DVR

- **Record up to 6 High-Definition Video Channels**
 - 30 FPS on all channels simultaneously (TH4: 720 resolution) (TH6 & TH8: 1080 resolution)
 - Wi-Fi & cellular communication packages available
- **Plenty of Recording Space**
 - 500GB of main storage (HDD) standard, and 32GB of backup storage on an SD card* (2nd stream recording).
* Optional 1 or 2 TB available
- **Supports Geo-fencing**
 - Delivers alerts when a vehicle deviates from a geographic boundary and the system will automatically locate any available video from that date and location
- **GPS, G-Force Sensor and Event Marking**
- **Compact, Integrated Lock-box Design**
 - Quick and easy installation and enhanced security

High Definition Cameras

A ground breaking development in mobile camera resolution, this next-generation camera uses progressive scan technology to deliver a clear, crisp high-definition image with up to 6x the resolution of a typical analog camera.

- HD1W/ HD3W/ 3MP (selectable) progressive scan resolution
- Range of wide or narrow lens sizes depending on application - wide lens standard
- Local video out connector for quick set up of field of view and focus of camera
- Rugged, IP67 weatherproof, anti-glare and vandal resistant housing

OPTION - Interior Dome Camera

- Compact, Infrared LED, tamper proof camera
- 2.5mm, 3.6mm, 6.0mm or 25.0mm lens options
- 720p or 1080p
- Built-in audio

OPTION - Wedge Camera

- Compact, Infrared LED, tamper proof camera
- 2.9mm, 3.6mm, 6.0mm, 16.0mm or 25.0mm lens options
- 720 p or 1080p
- IP67 weatherproof

Guardian Package includes:

STANDARD -

- HD DVR
- Up to 8 HD cameras

OPTIONS -

- vMax View software
- vMax Commander software
- Interior Dome Camera



Guardian Software

vMax view hard drive software

This easy-to-use software simplifies the viewing, archiving and retrieval of video allowing for easy searching by video clip, alarm, date and time (even GPS location). Secure key details about incidents, or pinpoint the exact time and location of an apparatus. Plus, create archives for video evidence while maintaining privacy with our innovative blurring feature.

- **See What Happened - and When**
 - Video synchronized with vehicle telemetry data, such as GPS location, vehicle speed, turn signals and G-force reports.
- **Simple Video Navigation**
 - Easy-to-use play, forward & rewind buttons, and timeline with zoom and scroll.
- **Map-based Video Search**
 - Don't know the time of an incident? Simply select an area on the map where the incident occurred, and the system will automatically locate any available video from that.

vMax commander video and data fleet management software*

vMax Commander efficiently manages your entire fleet's on-board video surveillance systems through a single web-based application. A convenient, user-friendly dashboard gives you a view of all of your video-related activities including alarms, video downloads, system health status, and connected vehicles. When combined with Smart-Reach, video with marked events can be automatically downloaded from an apparatus as it enters the station and is ready for viewing from a central location - eliminating the hassle and labor involved in retrieving video footage.

- **Hassle-free Video Retrieval**
 - Eliminate hard drive handling costs and free up labor resources with automatic video downloading.
- **Monitor Video System Health**
 - Monitor the status of your on-board video systems in a convenient at-a-glance dashboard of video health status, downloads and alarms.
- **Web-based Video Management**
 - Now you can manage your video surveillance system from anywhere with no software to download or devices to configure.
- **Quick & Easy Video Location**
 - Find critical video evidence in seconds with geographic and zone-based map search.
- **Advanced Reporting**
 - Web-based access to user accounts and system health reports. Control access to critical video by restricting and assigning permissions.
- **Advanced DVR Health Status**
 - Monitor and report on camera system health right down to individual camera loss.
- **View GPS Tracks**
 - View GPS tracks on a map, with detail in 2 second intervals, without having to download video - ideal for route incident investigation. Operates via Wi-Fi, cellular or both.

* Web based service. Yearly subscription license. Download to Wi-Fi or cellular

Remote Apps

Wi-Fi Smart Reach Wireless Access for Vmax Commander

Smart-Reach technology is an effective industrial-grade wireless solution for apparatus video surveillance. Smart-Reach Wi-Fi gives you the ability to download surveillance video automatically over a Wi-Fi network when the apparatus returns to the station house, making video surveillance retrieval virtually hassle-free. Access live video from anywhere, using a mobile device or web browser, so you can quickly and more effectively respond to emergency situations.

- **Automatic Wi-Fi Video Downloading**
 - Working in combination with vMax Commander surveillance management software, Smart-Reach Wi-Fi provides a robust wireless infrastructure for automated video downloading.
- **Secure, Industrial-grade Wi-Fi**
 - A truly robust wireless solution built for mobile applications.
- **Reliable Video Downloading**
 - Sufficient strength, signal and bandwidth for efficient and reliable downloading.
- **Mobile Wireless Bridge (one per apparatus)**
 - This mobile wireless bridge allows you to connect to Guardian DVR and retrieve data over a wireless LAN with simplicity and security.
- **Wireless Receiver Access Point (one per apparatus)**
 - This industrial-grade wireless access point delivers scalable and seamless wireless access when and where you need it.

Smart-Reach Cellular Access for vMax Commander

Smart-Reach cellular access lets you access live video from anywhere, using a mobile device or web browser, so you can quickly and more effectively respond to emergency situations.

- **Stream Live Video**
 - When connected to a Guardian DVR, the Smart-Reach router will securely transmit live video and tracking data over your network for easy viewing on your desktop, mobile device, or even integrated with apparatus routing software.
- **Secure, Connectivity**
 - IPSec industry standard protocol and data encryption protect sensitive data when transmitted over your network.
- **Access Live Video From Anywhere**
 - Tap in securely to live video from anywhere with an Internet connection.
- **Smart-Reach Cellular Router**
 - This intelligent wireless router allows you to connect to the Guardian DVR and transmit video and tracking data securely over the cellular network.



inView TrueSight Camera Systems offer Safety and Superior In-Cab Visibility.

- **Wired or Wireless Systems**
- **Heavy-Duty, Waterproof Cameras with Infrared LEDs for Nighttime Visibility**
- **Perfect for New or Retrofit Installations**



Wireless System

The inView TrueSight wireless camera systems are available in 1 or 2 camera configurations. Wireless systems are a great option for upgrading video on an existing apparatus, or for use in aerial applications where running a video wire is not practical. A transmitter can connect to any one of our cameras allowing it to wirelessly connect to any monitor with RCA inputs. Simply plug the camera into the transmitter and the receiver into the monitor and the two will communicate wirelessly!

Full or Split Screen Wireless Monitor

- 7" TFT LCD Color with Super Sharp Display
- Accommodates one or two cameras in real time
- Full or Split-screen Mode
- Built-in Speakers & on-dash backlit buttons

130° Rear View Wireless Back Up Camera

- 2.1mm Sharp® Color CCD Camera
- High Quality Image with no Blind Spots
- 9 Infrared LED's for night time visibility up to 50'
- Anti-Vibration / Waterproof for severe conditions
- Wireless Transmitter

120° Side View Wireless Camera

- Sharp® Color CCD Camera
- 9 Infrared LED's for night time visibility up to 30'
- Mounts flush or using Mounting Bracket

OPTIONS

- 7" Rear View Mirror Monitor
- Large 10" In-cab Monitor
- 7" Waterproof Monitor on Panel
- Wireless Proximity Sensor with Display



Main Camera

Side/Rear Camera

Wired System

The inView TrueSight wired camera systems are available in your choice of 1, 2, 3, or 4 camera configurations and customizable to meet all of your vehicle video needs. Systems are available with or without monitor display depending on if you want to tie the video feed into an existing vehicle monitor display. Multiple camera systems include a video switcher allowing you to choose your camera view. The four camera system comes standard with Quad View monitor with four display windows.

Full or Quad Screen Wired Monitor

- 7" TFT LCD Color with Super Sharp Display
- Accommodates one to four cameras in real time
- Full or Quad-screen Monitor (with 4 cameras)
- Built-in Speakers & on-dash backlit buttons

130° Front / Rear View Wired Camera

- 2.1mm Sharp® Color CCD Camera
- High Quality Image with no Blind Spots
- 18 infrared illuminators for clear image up to 50' away
- Anti-Vibration / Waterproof for severe conditions

Kits with front and rear mounted cameras will come with two 130° Wired Cameras

120° Side View Wired Cameras

- Sharp® Color CCD Camera
- 9 infrared illuminators for clear image day or night
- Mounts flush or using Mounting Bracket

OPTIONS

- 7" Rear View Mirror Monitor
- Large 10" In-cab Monitor
- 7" Waterproof Monitor on Panel
- Proximity Sensor with Display
- TH4C 4-Channel DVR
- Dome Waterproof Camera
- Brake Light Camera



Wired Customized Kits:

- Up to 4 Cameras
- Up to 2 Monitor Systems plus options





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