

# THE VISIONARY PROTECTION EXPERT





## VVR

### ALL IN ONE VEHICLE VIDEO RECORDER

|   |      |
|---|------|
| VVA-CBN01 / CBN02   | 0304 |
| VVH-CBN03/N03G / VVG-CBN11 / VVA-CBE05A/02A / CDR-E05/E02 | 0506 |
| CDR-E07 / CDR-E22/E23 / VVA-CBE27/CBE25 / CDR-E26         | 0708 |

## DVR

### MOBILE DIGITAL VIDEO RECORDER

|   |      |
|---|------|
| VVH-MDE09 / VVH-MD657 / VVH-MD40D/80D               | 1112 |
| CDR-E06 / SA-650CF/3GA / CDR-E10/3GA / SA-650HD/3GA | 1314 |

## CAMERA

### VEHICLE VIEW CAMERAS

|  |      |
|--|------|
| AVM-737A / AVM-737A-BV / AVM-730-BV / AVM-737 / AVM-737-BV | 1516 |
| AVM-950H/750/350/(BV) / AVM-930-BV / AVM-951H/751/351      | 1718 |

VVA  
CBE  
05A

VEHICLE VIDEO  
RECORDER

**VACRON**  
ADVANCES IN SECURITY SOLUTIONS

The vehicle video recorder, VVR, is a sophisticated device that is equipped with GPS tracking and G sensor shock detection. It records precisely on what happens on the road. The benefit of recording with a VVR is the powerful evidence may be used in traffic courts. The vehicle camera recorder can recover the accident scene and find out the causes of the accident for the insurance purpose.



VVG  
CB  
N11

VEHICLE VIDEO  
RECORDER



# ALL IN ONE VEHICLE VIDEO RECORDER

CAMERA / DVR ACCESSORIES / MOBILE SURVEILLANCE

VVR



VVA-CBN01 / CBN02

## SPECIFICATIONS

- Ambarella H.264 image compression chip
- Full HD 5M CMOS Sensor
- F1.8 Aperture, View Angle Approx. 120 degrees
- RECORDING FRAME :

| FULL HD              | HD                 |
|----------------------|--------------------|
| 1080P<br>(1920x1080) | 720P<br>(1280x720) |
| 30fps                | 30fps              |

- LCD 3 inch 16:9 monitor
- Voltage: Start at 5V±5% : 650mA (5V/1A Power Adaptor)
- Operating Temperature: -15°C~ +65°C
- SD card Class 10 or above recommend, MAX to 32GB
- Motion detection recording function during car stopping (External power source is needed)
- GPS and Image data are recorded and playable on client software.(CBN01)
- Lane Departure Warning System, to warn the driver with the beeper during driving off-lane (CBN01)
- Speeding Warning Function (CBN01)



## PLAYER



VVR



VVH-CBN03 / CBN03G

SPECIFICATIONS

- Forward Lens: SXGA CMOS Sensor 720p HD, View Angle Approx. 100 degrees
- CH2 (Extra) : 3.5mm 4 pin Phone JACK vehicle Camera (1 Vp-p Composite Video Output)

RECORDING FRAME :

| Forward               | Extra          |
|-----------------------|----------------|
| HD 720P<br>(1280x720) | -<br>(720x480) |
| 30fps                 | 15fps          |

- LCD 3 inch 16:9 monitor
- Voltage: Start at 5V±5% : 1200mA (5V/2A Power Adaptor)
- Operating Temperature: -10°C~ +50°C
- SD card Class 10 or above recommend. MAX to 32GB
- Support password protection, driver/vehicle information
- Extra CH2 camera record rear or inner statue of vehicle
- Built-in G-sensor triggered the accident recording function, video files reserved to keep off overwritten
- Complete recording video, audio with date, time, and speed information
- Optional GPS equipment will provide coordinate and route data



PLAYER



VVR



VVG-CBN11

SPECIFICATIONS

- H.264 image compression chip
- Megapixel CMOS Sensor
- View Angle Approx. 105 degrees

RECORDING FRAME :

| FULL HD       |
|---------------|
| 30fps / 25fps |

- 2.5 inch Hi-Res. monitor
- Voltage: Start at 5V±5%
- Operating Temperature: -10°C~ +60°C
- SD card Class 10 or above recommend. MAX to 32GB
- Recording Content: Date, Time, Image, Sound, G-Sensor data
- Built-in High Sensitivity Microphone.
- Built in Internal 3D G-Sensor



PLAYER



VVR



VVA-CBE05A / CBE02A

SPECIFICATIONS

- Amarella H.264 Compression Chip
- Full HD 5M CMOS Sensor
- View Angle Approx. 105 degrees

RECORDING FRAME :

| FULL HD              | HD                 |
|----------------------|--------------------|
| 1080P<br>(1920x1080) | 720P<br>(1280x720) |
| 30fps                | 30fps              |

- 3" Hi-Res. TFT Flip Monitor for Live or Playback
- SD Card Storage (Class 10 or above Recommended)
- Built in G-Sensor, GPS (CBE05A) Compatible with Google Map
- Mini USB plug DC5V +/-5%, at least 650mA
- Operating Temp: -10 ~ +70°C
- Motion detection recording function during car stopping (External power source is needed)
- GPS and Image data are recorded and playable on client software. (CBE05A)
- Lane Departure Warning System, to warn the driver with the beeper during driving off-lane. (CBE05A)
- Speeding Warning Function. (CBE05A)



PLAYER



VVR



CDR-E05 / E02

SPECIFICATIONS

- Amarella H.264 Compression Chip
- Full HD 5M CMOS Sensor
- View Angle Approx. 105 degrees

RECORDING FRAME :

| FULL HD              | HD                 |
|----------------------|--------------------|
| 1080P<br>(1920x1080) | 720P<br>(1280x720) |
| 30fps                | 30fps              |

- 3" Hi-Res. TFT Flip Monitor for Live or Playback
- SD Card Storage (Class 10 or above Recommended)
- Built in G-Sensor, GPS (E05) Compatible with Google Map
- Mini USB plug DC5V +/-5%, at least 650mA
- Operating Temp: -10 ~ +70°C
- Motion detection recording function during car stopping (External power source is needed)
- GPS and Image data are recorded and playable on client software. (E05)
- Lane Departure Warning System, to warn the driver with the beeper during driving off-lane. (E05)
- Speeding Warning Function. (E05)



PLAYER



VVR



CDR-E07

SPECIFICATIONS

- H.264 Compression Chip
- All-in-One with 2 Lens (Forward/Backward)
- Forward/Backward: 720p/VGA or VGA/VGA (optional)
- VIEW ANGLE : Front 120 degree, Inner 170 degree
- RECORD FRAME RATE :

| FRONT | INNER |
|-------|-------|
| 30fps | 15fps |

- 4pcs IR LED for inner camera (Auto on/off)
- Statue Display by LED Indicator, Intuitive Operation
- Friendly Player, Support Additional Car Information Input
- With Hi-Sensitive, Noise Reduction Mic.
- Micro SD Card Storage (Class10 or above Recommended)
- RECORD MODE : Auto/Recycle/Event(File Reserved) Record
- Anti-File Crash Technology keeps every frame during journey
- Built in G-Sensor, GPS Compatible with Google Map
- Built-in Real Time Clock(RTC), GPS Auto Time Calibration
- Mini USB plug DC5V +/-5%, 1A
- OPERATING TEMP : -15 ~ +55°C



PLAYER



VVR



CDR-E22 / E23

SPECIFICATIONS

- Amberella H.264 Compression Chip
- Full HD 5M CMOS Sensor
- View Angle Approx. 105 degree
- RECORD FRAME RATE :

| FULL HD              | HD                 |
|----------------------|--------------------|
| 1080P<br>(1920x1080) | 720P<br>(1280x720) |
| 30fps                | 30fps              |

- Built-in 3" Hi-Res. TFT Monitor for Live or Playback
- With Hi-Sensitive, Noise Reduction Mic.
- SD Card Storage (Class 10 or above Recommended)
- RECORD MODE : Auto/Recycle/Event(File Reserved) Record
- Anti-File Crash Technology keeps every frame during journey
- Built in G-Sensor, GPS(E22) Compatible with Google Map
- Built-in Real Time Clock(RTC), GPS Auto Time Calibration
- Mini USB plug DC5V +/-5%, at least 650mA
- OPERATING TEMP : -15 ~ +70°C



PLAYER



VVR



VVA-CBE27 / CBE25

SPECIFICATIONS

- Amberella H.264 Compression Chip
- Mega Pixels Hi-Sensitive CMOS Sensor
- View Angle Approx. 105 degree
- RECORD FRAME RATE :

| FULL HD (E27)        | HD (E25)           |
|----------------------|--------------------|
| 1080P<br>(1920x1080) | 720P<br>(1280x720) |
| 30fps                | 30fps              |

- With Hi-Sensitive, Noise Reduction Mic.
- Micro SD Card Storage (Class 10 or above Recommended)
- RECORD MODE : Auto/Recycle/Event(File Reserved) Record
- Anti-File Crash Technology keeps every frame during journey
- Built in G-Sensor, GPS(Optional) Compatible with Google Map
- Support TV out easy to integrate to Car Entertainment Console
- Mini USB plug DC5V +/-5%, at least 600mA
- OPERATING TEMP : -10 ~ +70°C



PLAYER



VVR



CDR-E26

SPECIFICATIONS

- H.264 Real Time Compression Chip
- VGA CMOS Sensor
- 2.9mm lens, apx. 120 degrees viewing angle
- RECORD FRAME RATE :

| NTSC  | PAL   |
|-------|-------|
| 30fps | 25fps |

- Support TV out easy to integrate to Car Entertainment Console
- Memory Card must be formatted before use by Special Player
- With Hi-Sensitive, Noise Reduction Mic.
- Micro SD Card Storage (Class 6 or above Recommended)
- RECORD MODE : Auto/Recycle/Event(File Reserved) Record
- Anti-File Crash Technology keeps every frame during journey
- Date/Time can be shown on the display.
- Quick search on ALL event log.
- Mini USB plug DC5V +/-5%, at least 400mA
- Operating Temp: -10~+70°C



PLAYER



# VVH MD 80D

MOBILE DIGITAL  
VIDEO RECORDER

**VACRON**  
ADVANCES IN SECURITY SOLUTIONS

Mobile DVR is used widely in mobile security and surveillance object for traffic safety. H.264 compression Technology, Enhanced Shock proof and Fanless design which ensure uninterrupted Recording footage. G-Sensor and GPS Logger are as standard, via built-in 3G Module, live tracking/Monitoring are realized in new fleet management system. Definitely, VacronViewer is ready for 3G mobile DVR.



# VVH MD E09

MOBILE DIGITAL  
VIDEO RECORDER



# MOBILE DIGITAL VIDEO RECORDER

CAMERA / DVR ACCESSORIES / MOBILE SURVEILLANCE



## DVR

### VVH-MD657 (4CH)

#### SPECIFICATIONS

- H.264 Real Time Compression Chip
  - Support 1ch Video in with Vehicle Camera **AVM-360PV**, 1ch Audio in with Mic.
  - **RECORDING FRAME / RESOLUTION**
- | Resolution | NTSC/PAL |
|------------|----------|
| D1         | 60/50fps |
- **DISPLAY MODE:** 360° Screen
  - **STORAGE DEVICE:** Class 10 SD Card (at least 4Gb)
  - **MENU:** Multi-Language GUI
  - IR Remote Controller (with Extension IR Receiver)
  - Built in G-Sensor, External GPS (optional) Compatible with Google Map.
  - **VOLTAGE:** DC8V~32V
  - Motion detection recording function during car stopping (External power source is needed)
  - **DIMENSION:** 115mm x 90mm x 30mm (W x D x H)

### AVM-360PV (Vehicle Cam)

#### SPECIFICATIONS

- 1/4" CMOS Image Sensor x 4PCS
- **VOLTAGE:** DC12V
- **VIEWING ANGLE:** H : 360° V : 70°
- 4PCS IR LED; IR RANGE: 1M
- **Operating Temperature:** - 10°C ~ +60°C



\*Version updating is not going to inform, please check the on-going updating information

#### VVH-MD657 (Vehicle DVR)



#### AVM-360PV (Vehicle Cam)



## DVR

### VVH-MDE09 (2CH)

#### SPECIFICATIONS

- H.264 Real Time Compression Chip
  - Built-in 3" Hi-Res. TFT Monitor
  - Support 2CH Video input
  - **RECORD FRAME RATE**
- | Resolution | NTSC/PAL |
|------------|----------|
| D1         | 30/25fps |
- **Voltage:** DC12V / 250mA
  - **Operation Temp:** -15°C~+65°C
  - **Storage Device:** Class 10 SDHC Card (at least 4Gb)
  - **Record Mode:** Auto Record after Power on
  - **Record Content:** Date / Time / Video / Voice / G-Sensor / GPS Logger (Optional)
  - **File Format:** Specific format for software player
  - **Microphone:** External MIC (W/O Waterproof)
  - **Time Setup:** Auto-calibrating by GPS signals. If GPS is not available, the built-in clock will be used
  - Internal 3D G-Sensor
  - **Casing material:** Aluminum alloy. Solid aluminum alloy casing with waterproof ability.
  - **Weight:** DVR About 185g
  - **Dimension:** 104.9mm x 64.5mm x 26mm ( W x D x H )
  - No built-in lithium battery design. Low power consumption and excellent heat dissipation. Ideal for high temperature environment and worry-free from battery explosion.
  - Automatic startup recording when power on and continuous recording until power is off.



#### PLAYER



## DVR

### VVH-MD40D/80D (4/8CH)

#### SPECIFICATIONS

- H.264 Real Time Compression Chip
  - Support 4/8CH Video, 1ch Audio
  - Harness Connector for power and video
  - **RECORDING FRAME / RESOLUTION**
- | Resolution | NTSC/PAL                        |
|------------|---------------------------------|
| D1         | 60/50fps                        |
| CIF        | 4CH:120/100fps / 8CH:240/200fps |
- IR Remote Controller (with Extension IR Receiver)
  - Built in G-Sensor, GPS (optional) Compatible with Google MAP
  - Intelligent 3G Network Streaming Control Technology (3G Model)
  - Optional for MINI PCI 3G Network Card
  - Operation System: Embedded Linux System
  - **DISPLAY MODE:** Quad, Single CH Display, Event Pop-up
  - **OSD MENU:** Multi-Language OSD
  - **STORAGE:** Removable 2.5" HDD Caddy
  - **BACKUP SYSTEM:** PC Viewer
  - **POWER SUPPLY:** Wide Voltage Input
  - Dimension: 250mm x 174.8mm x 69.5mm
  - **WEIGHT:** 1.85kg (with Bracket, HDD)
  - **OPERATING TEMP.:** -20°C ~ +65°C



#### PLAYER





## DVR

## CDR-E06 (1CH)

## SPECIFICATIONS

- VIDEO COMPRESSION FORMAT : MPEG4
- AUDIO COMPRESSION FORMAT : PCM
- Clear Vivid Images Even In High Speed Driving (120km/hr).
- D1 Real Time Recording (D1 : 720X240 30fps)
- GPS / G-SENSOR / Google Map
- Synchronous Audio Recording. Bundled With High Sensitive Microphone For External Use.
- Software Player Have Been Installed Into CF-card. No Need For Further Installation. Plug & Play In Pc Mode.
- COMPLETE EVENT LISTS : Faster Search For Recorded Files.
- Wide Tolerance Range For Voltage Input. Better Stability.
- PLUG & PLAY : Start Recording Automatically Without Further Operation.
- SPECIAL FILE FORMAT : Keep The Data Safe And From Being Lost.
- CF CARD (RECOMMENDATION) : Speed 233x or above Up to 32GB
- RECORD : 720 x240 (NTSC) / 720 x288 (PAL)
- PLAY : 720 x 480 (NTSC) / 720 x 576 (PAL)
- RECORDING FRAME : D1-30fps (NTSC) / D1-25fps (PAL)
- RECORDING CONTENT : Date / Time / Image
- VOLTAGE RANGE : 11V~14.5V Power Consumption 15V @400mA (Without Camera)
- OPERATING TEMP. : -20°C~+65°C ( Inside the car )
- DIMENSION : 115mm (W) x 102mm (D) x 30mm (H)
- WEIGHT : 0.27kg



## PLAYER



## DVR

## CDR-E10/3GA(4CH)

## SPECIFICATIONS

- H.264 Real Time Compression Chip
- Support 4 Video, 1Audio and 4 Alarm Input
- Harness Connector for Power and Video
- RECORD FRAME RATE

| Resolution | NTSC/PAL   |
|------------|------------|
| D1         | 60/50fps   |
| CIF        | 120/100fps |

- IR Remote Controller (With Extension IR Receiver)
- Built in G-Sensor, GPS(Optional) Compatible with Google Map
- Intelligent 3G Network Streaming Control Technology (3G Model)
- Optional for MINI PCI 3G Network Card
- OPERAION SYSTEM : Embedded Linux System
- DISPLAY MODE : Quad, Single CH Display, Event Pop-up
- OSD MENU : Multi-Language OSD(W/O 3G)
- STORAGE : SD CARD Max. 64Gb
- BACKUP SYSTEM : PC Viewer
- POWER SUPPLY : DC12V
- DIMENSION : 115mmx132.7mmx30mm
- WEIGHT : 0.4kgs
- OPERATING TEMP. : -20°C ~ +65°C



## PLAYER



## DVR

## SA-650CF/3GA (4CH)

## SPECIFICATIONS

- H.264 Real Time Compression Chip
- Support 4 Video, 1Audio and 4 Alarm Input
- Harness Connector for Power and Video
- RECORDING FRAME RATE

| Resolution | NTSC/PAL   |
|------------|------------|
| D1         | 60/50fps   |
| CIF        | 120/100fps |

- IR Remote Controller (With Extension IR Receiver)
- Built in G-Sensor, GPS(Optional) Compatible with Google Map
- Intelligent 3G Network Streaming Control Technology (3G Model)
- Optional for MINI PCI 3G Network Card
- OPERAION SYSTEM : Embedded Linux System
- DISPLAY MODE : Quad, Single CH Display, Event Pop-up
- OSD MENU : Multi-Language OSD(W/O 3G)
- STORAGE : CF CARD
- BACKUP SYSTEM : PC Viewer
- POWER SUPPLY : Wide Voltage Input.
- DIMENSION : 214mm x 160mm x 58mm (W x D x H)
- WEIGHT : 0.92kgs
- OPERATING TEMP. : -20°C ~ +65°C



## PLAYER



## DVR

## SA-650HD/3GA(4CH)

## SPECIFICATIONS

- H.264 Real Time Compression Chip
- Support 4 Video, 1Audio and 4 Alarm Input
- Harness Connector for Power and Video
- RECORDING FRAME/RESOLUTION

| Resolution | NTSC/PAL   |
|------------|------------|
| D1         | 60/50fps   |
| CIF        | 120/100fps |

- IR Remote Controller (With Extension IR Receiver)
- Built in G-Sensor, GPS(Optional) Compatible with Google Map
- Intelligent 3G Network Streaming Control Technology (3G Model)
- Optional for MINI PCI 3G Network Card
- OPERAION SYSTEM : Embedded Linux System
- DISPLAY MODE : Quad, Single CH Display, Event Pop-up
- OSD MENU : Multi-Language OSD(650HD Model Only)
- STORAGE : Removable 2.5"HDD Caddy
- BACKUP SYSTEM : PC Viewer
- POWER SUPPLY : Wide Voltage Input.
- DIMENSION : 210mmx180mmx58mm
- WEIGHT : 3kgs (With Bracket, W/O HDD)
- OPERATING TEMP. : -20°C ~ +65°C



## PLAYER



# VEHICLE VIEW CAMERAS

CAMERA / DVR ACCESSORIES / MOBILE SURVEILLANCE

## CAMERA

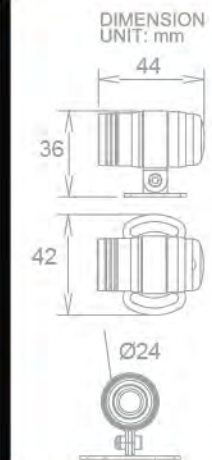
### AVM-737A/AVM-737A-BV

#### SPECIFICATIONS



PROVIDES TWO KIND OF SYSTEM NTSC / PAL .

VIEWING ANGLE : H:66° V:52°  
420 TV Lines, 0.12 LUX. LENS : 4.0mm



## CAMERA

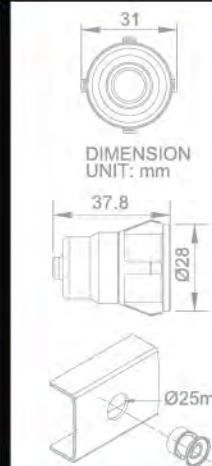
### AVM-730-BV

#### SPECIFICATIONS



PROVIDES TWO KIND OF SYSTEM NTSC / PAL .

VIEWING ANGLE : H:110° V:80° D:136°  
420 TV Lines, 0.12 LUX. LENS : 1.92mm



## CAMERA

### AVM-737/AVM-737-BV

#### SPECIFICATIONS



PROVIDES TWO KIND OF SYSTEM NTSC / PAL .

VIEWING ANGLE : H:125° V:103° D:170°  
420 TV Lines, 0.12 LUX. LENS : 1.7mm



# VEHICLE VIEW CAMERAS

CAMERA / DVR ACCESSORIES / MOBILE SURVEILLANCE



## CAMERA

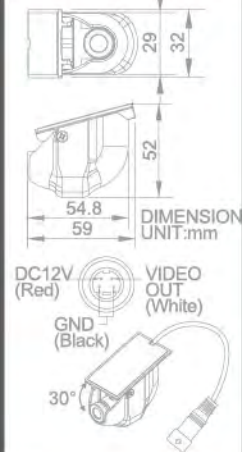
### AVM-950H/750/350/(BV)

#### SPECIFICATIONS

|          |          |          |         |        |        |             |
|----------|----------|----------|---------|--------|--------|-------------|
| AVM-950H | 1/3" CCD | LENS 4mm | 0.5 Lux | 520TVL | DC 12V | MIRROR (BV) |
| AVM-750  | 1/3" CCD | LENS 4mm | 0.5 Lux | 420TVL | DC 12V | MIRROR (BV) |
| AVM-350  | CMOS     | LENS 4mm | 0.5 Lux | 420TVL | DC 12V | MIRROR (BV) |

PROVIDES TWO KIND OF SYSTEM NTSC / PAL .

VIEWING ANGLE : H:66° V:52° LENS : 4mm



## CAMERA

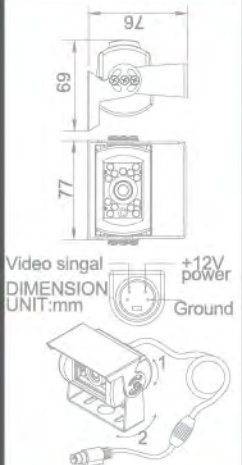
### AVM-930-BV

#### SPECIFICATIONS

|          |            |         |        |       |
|----------|------------|---------|--------|-------|
| 1/3" CCD | LENS 2.9mm | 0 Lux   | 420TVL | 96°   |
| 13 LEDs  | 10 M       | DC 12 V | MIRROR | IP 66 |

MIRRORING, CLEAR IMAGE FOR BACK-DRAFT

13 PCS LEDs, Good Night Time Image, IR Distance 10M LENS : 2.9mm



## CAMERA

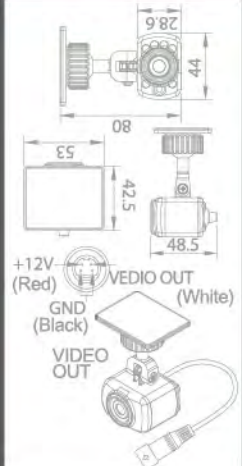
### AVM-951H/751/351

#### SPECIFICATIONS

|          |          |          |        |        |     |        |
|----------|----------|----------|--------|--------|-----|--------|
| AVM-951H | 1/3" CCD | LENS 4mm | 520TVL | 6 LEDs | 3 M | DC 12V |
| AVM-751  | 1/3" CCD | LENS 4mm | 420TVL | 6 LEDs | 3 M | DC 12V |
| AVM-351  | CMOS     | LENS 4mm | 420TVL | 6 LEDs | 3 M | DC 12V |

PROVIDES TWO KIND OF SYSTEM NTSC / PAL .

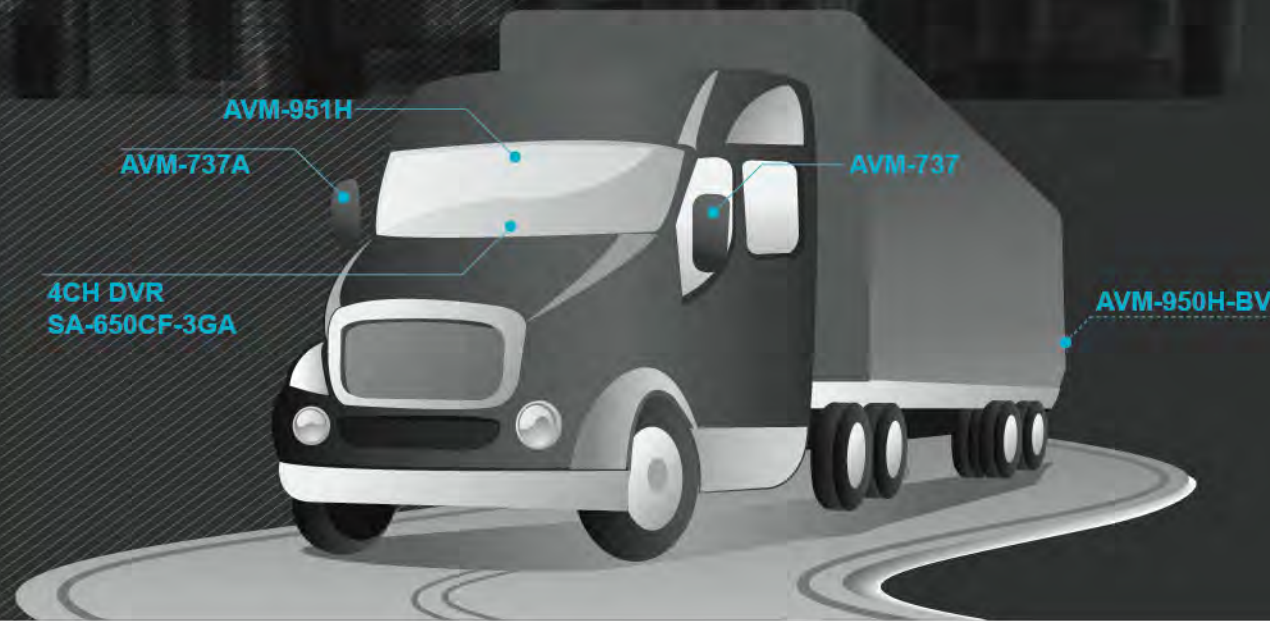
6 PCS LEDs, Good Night Time Image, IR Distance 3M LENS : 4mm



# VEHICLE TRACKING MANAGEMENT SYSTEM

4 CH Vehicle Recording System / 3G Application Management System

Integrated GPS, GSM, GIS technology into Vehicle tracking management system. Through internet transmitted technology, It's easy to track vehicle and coordinate the fleet. Mobile DVR received GPS data, then transmitted it to server database through 3G network, customers can retrieve the vehicle position and route through GIS platform. Combine the vehicle tracking system and the video file, the coordinator can double check between vehicle driving route and driving video. It will reduce manpower cost and increase management efficiency.



## Transport Applications

