

CruiseCam Integrated Technologies



**Commercial Vehicle
Project**
Jeep Liberty Gemini System
V1.0

If Seeing is Believing....

Then you should be seeing it with
CruiseCam Technologies



If Seeing is Believing....

Then you should be seeing it with
CruiseCam Technologies

See It

Record It

Review It

Believe It!

Primary Considerations

Reliability

Visual Clarity

Ease of Use

Low Initial Cost

Ruggedness

Easy Installation

Location

Security

Temperature Extremes

Recommended Camera Views



Recommended Views:

- Drivers View Plus Dash Area
- Rear View Camera w/IR automatically switches from Drivers View
- Interior Camera w/IR to show Driver and Passenger Actions
- Optional PTZ w/IR and Flood Light allows 360° Coverage Day and Night

PTZ Camera Camera Option

Driver's View



Driver's View



CC Mobile PTZ (Pan, Tilt, Zoom) Camera

- 3.7 – 123mm Optical Zoom Lens Optional
- Full day/Night Capability using IR or Spotlight Feature
- 360° Continuous Pan, -10 to 90° Tilt
- 3D Joystick. One hand Pan, Tilt and Zoom
- IR and Regular Spotlights

Gemini DVR Advantages

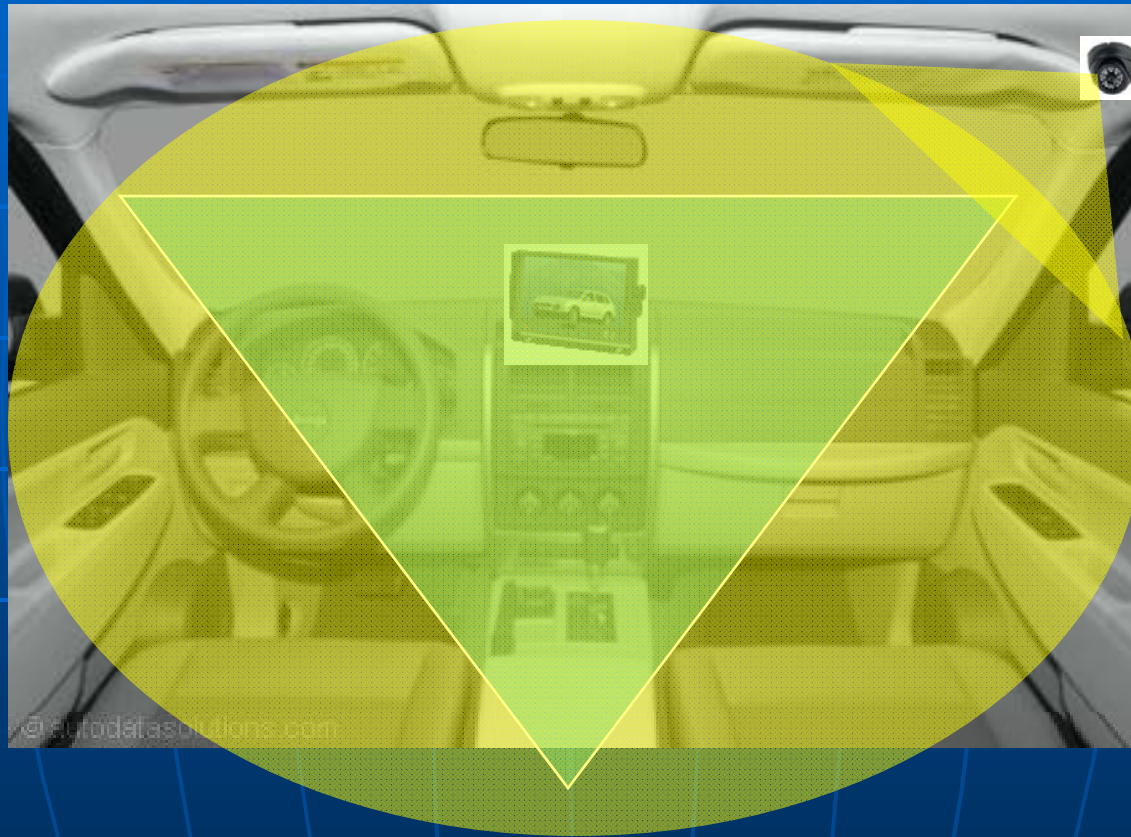
Uses SD Cards Instead of a Hard Drive

- Solid State Memory - No hard drive failure
- Allows significantly smaller DVR housing
- Less Power Consumption
- Easily transportable media
- Easy to move and copy files
- No special software necessary
- Inexpensive, readily available storage
- Uses Windows Media Player for playback



Interior System Setup and Views

7" TFT LCD
Color Monitor



Interior
View
Armored
Mini Ball
Camera
w/IR

Headrest Mount
Camera View

Gemini DVR Advantages

Two Separate DVRs in Each Gemini Unit.

- Separate DVR for each camera
- Separate Primary Controls for security
- Maximize picture quality
- Minimize system wide failure
- Each DVR individually fused
- All solid state ensures low maintenance
- Security – Rugged aluminum housing with Locked with cylinder shaped key



Gemini DVR Advantages

Easy Installation

- Preconfigured 'all in one' Cables
- Audio, Video and Power in each A/V/P cable
- Locking Connectors
- Handles 12 – 32VDC Diesel surges on startup
- Reverse Polarity protection
- Each Fuse is externally accessible
- Small unit size allows more usable locations



Gemini DVR Advantages

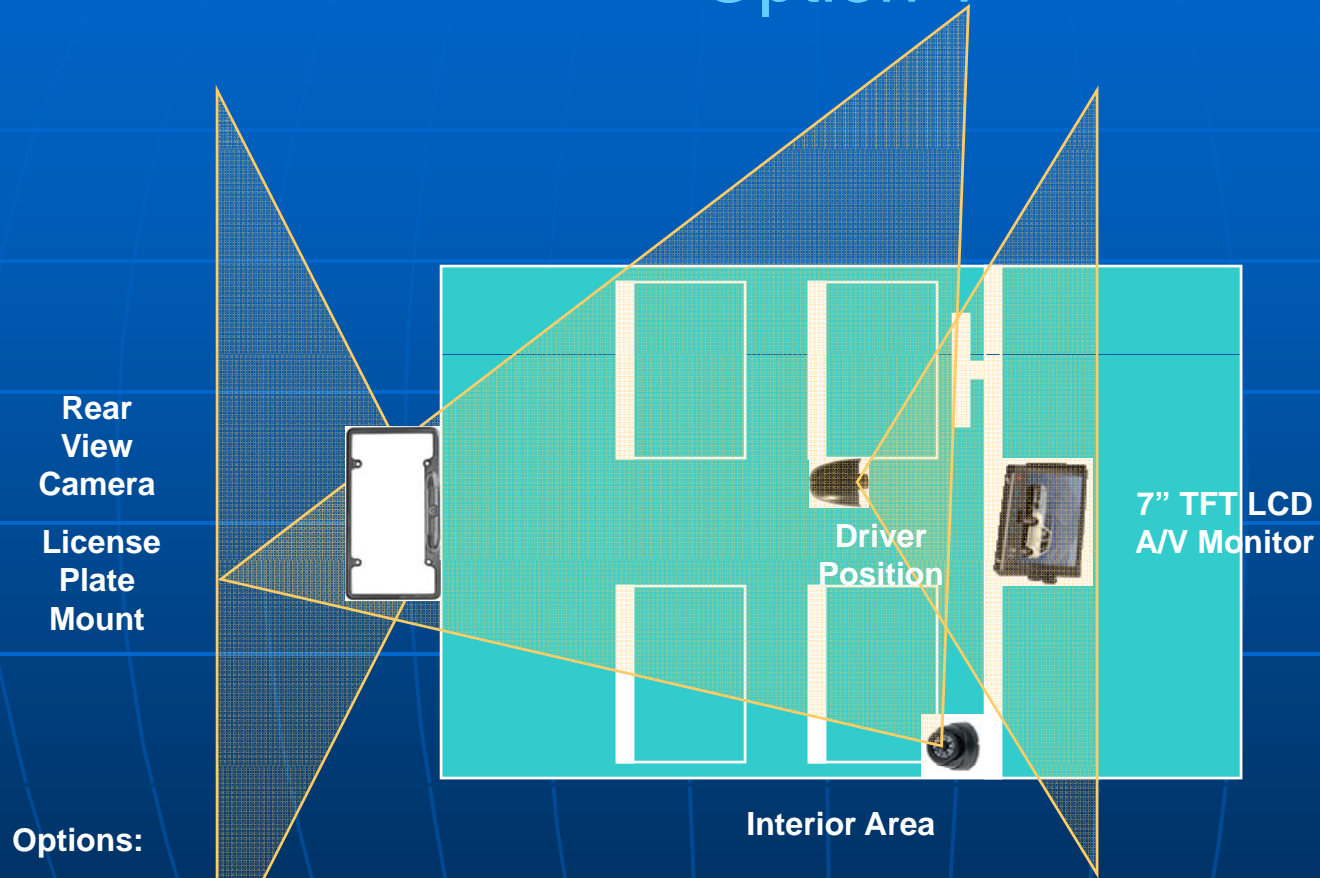
Easy Setup and Use

- Each DVR has it's own User Interface
- Dedicated User Oriented Software
- Clear Menus
- Useful Options
- All Buttons Clearly Labeled
- Default Settings handle most configurations



General Camera Positions

Option 1



Options:

B/U Camera

Audio Microphone

Audible B/U Warning

Note: Drawing and Fields of View Not to Scale



Forward Road View

Camera 1



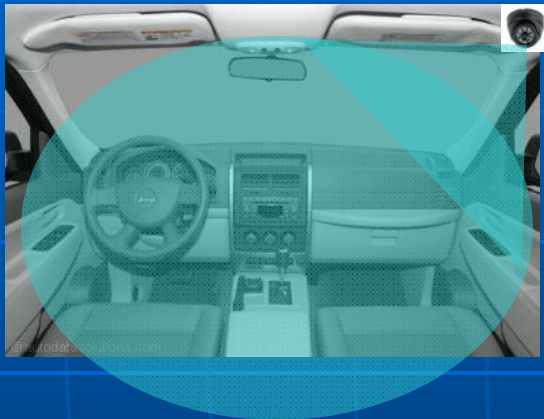
- Seat Mounted Camera shows view of road and steering wheel and dash areas
- 3.6mm Lens
- 70° Field of View
- No IR Needed



Headrest Mount Camera

Interior Area

(Camera 3)



- 2.5mm Wide Angle Lens
- 170° Field of View
- 0 Lux capability with Infra Red LED Lighting
- Locate Overhead Passenger Right Front Corner near Visor



Armored Mini Ball
Camera

Reverse (B/U) Camera (Camera 2)

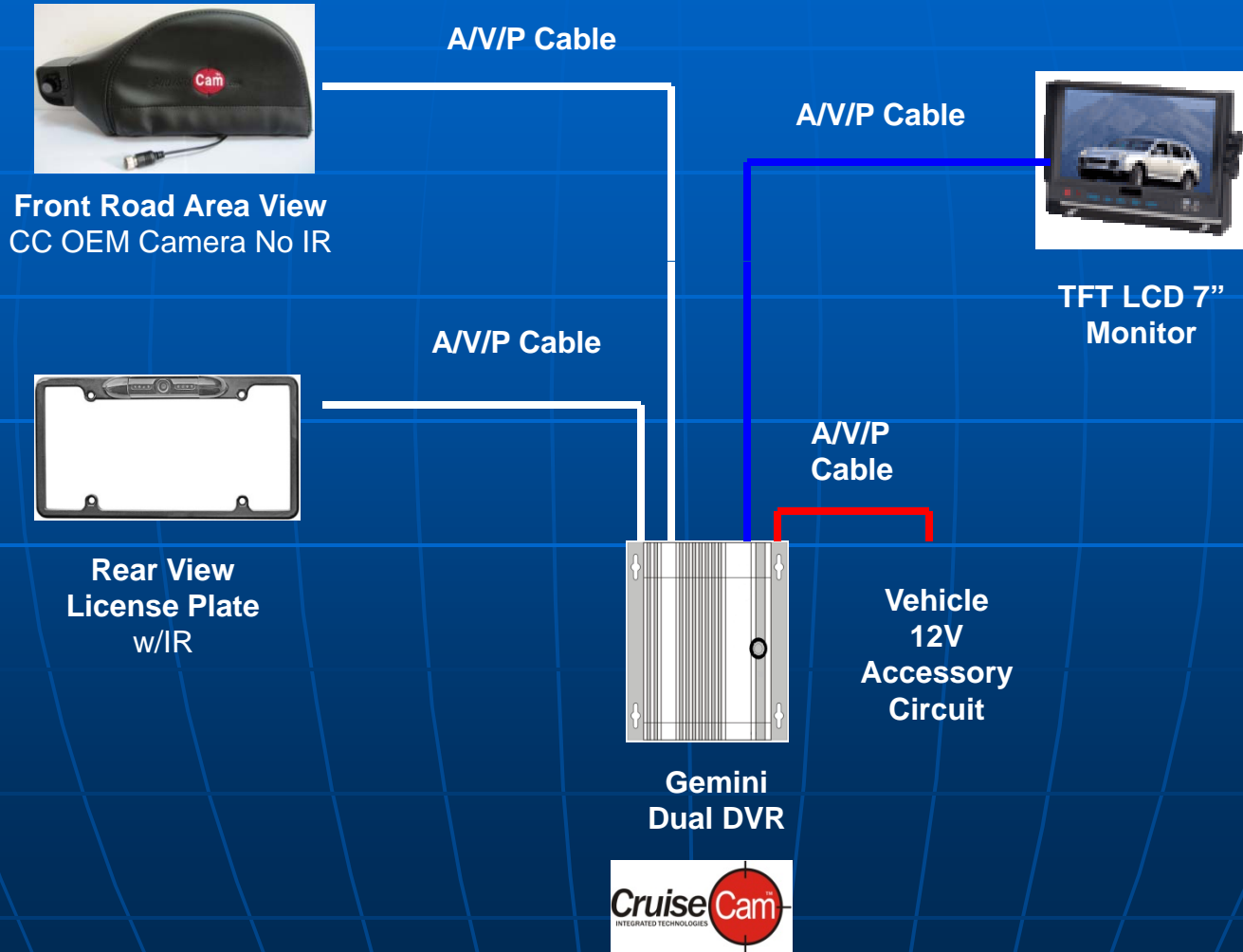
Optional w/ Required Auto Video Switcher



Rear View License
Plate Camera w/IR

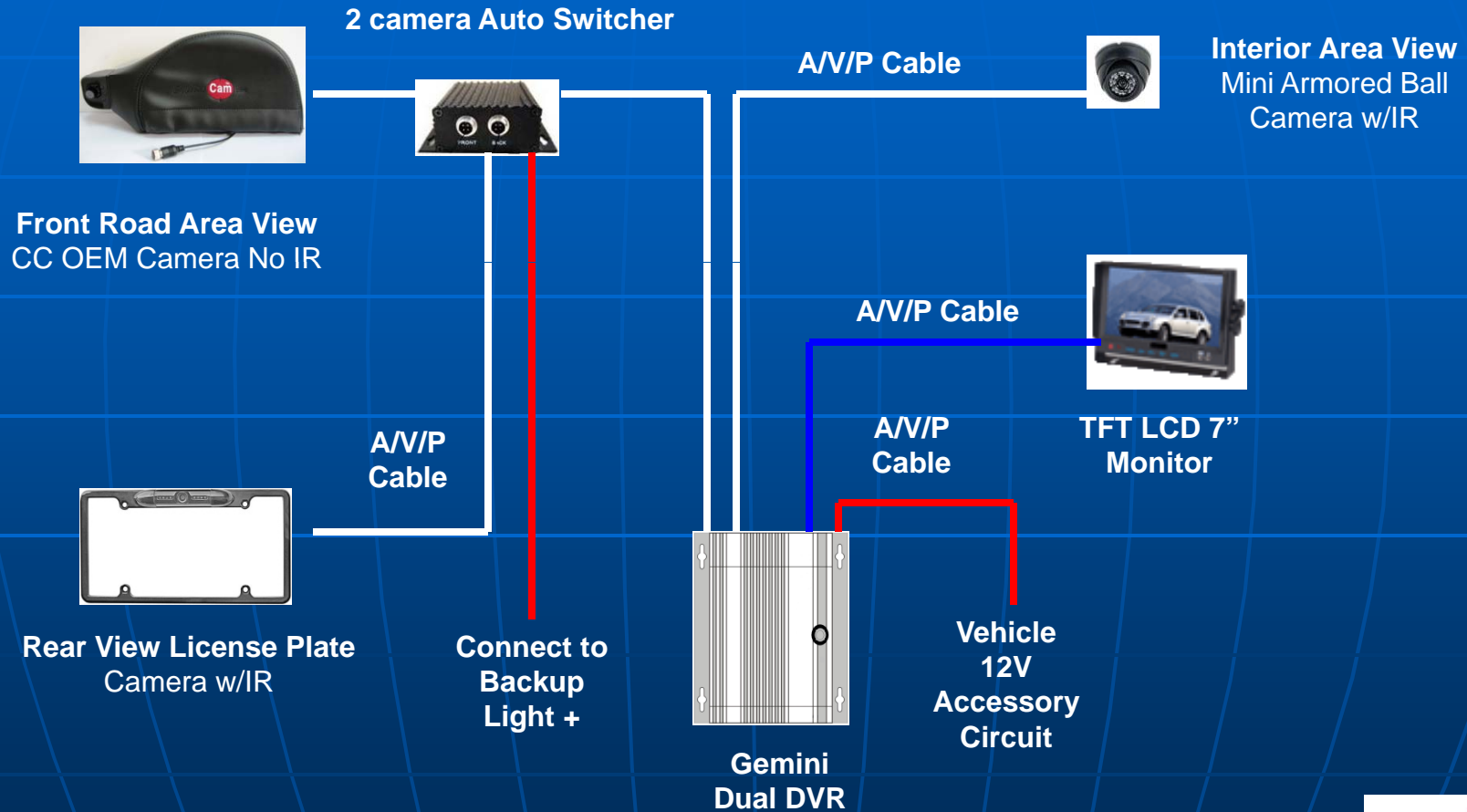
- 2.5mm Wide Angle Lens
- 170° Field of View
- 0 Lux with Infra Red LED lighting
- Locate on Rear Exterior of the Vehicle facing the area behind the vehicle

Equipment Diagram (Basic)



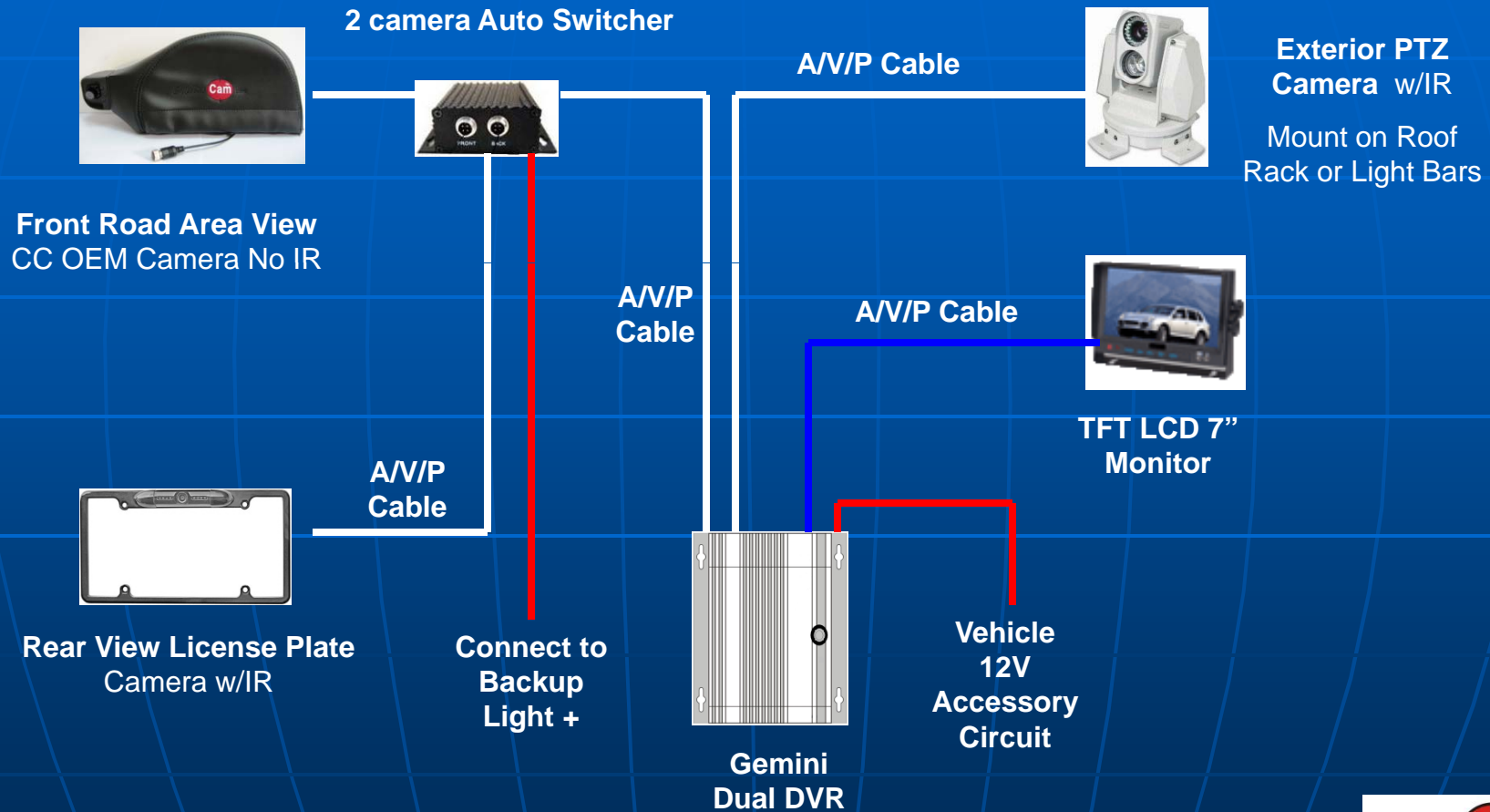
Equipment Diagram

Option 1 (Auto Switch between Front and Rear View)



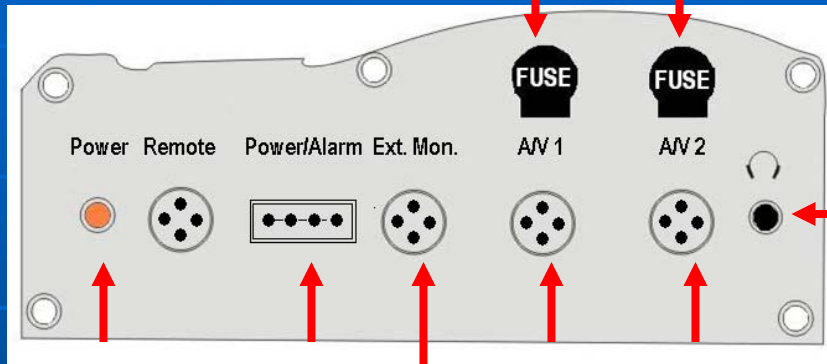
Equipment Diagram

Option 2 (Auto Switch between Front and Rear View + PTZ)



Fast, Versatile, Easy to Connect

Separate DVR Fuses



Headset Jack for Audio Setup and Review

Power Indicator

12V Power
2 DVR Triggers

Independent DVR
Camera/Mic In
and Camera
Power Out



Armored Dome
Camera w/IR



External Monitor
and Speaker



Choose from a
wide variety of
Video Cameras
to fit any
application



License
Plate Mount
Back Up
Camera w/IR



Seat Mounted
Camera w/o/IR



Gemini Specifications

<i>Model – Gemini Dual DVR</i>	<i>Specifications</i>
Internal Independent DVR	2 each.
Number of Cameras Supported	1 per DVR
Compatible Camera Sensor Types	CCD or CMOS
Video Signal	NTSC or PAL
Memory Storage (Per DVR)	16GB (Max.) SDHC Card
File Format	MPEG4
Recording Resolution	640x480 or 320x240
Recording Frame Rate (FPS)	30 or 15FPS
File Options	Stop When Full or Overwrite
Firmware Upgrade Method	From SD Card
Working Voltage	12-13.8VDC (12 – 32VDC w/opt. adapter)
Camera Voltage Supply	12VDC@400mA
Power Supply	Connect to Vehicle Accessory Circuit



Gemini Specifications

DVR Housing	Specifications
Working Temperature	0°C - +55°C
Waterproof	No
Physical Security	Metal Housing, Lockable, concealed hinges
Housing Material	Aluminum
Dimensions	138mm x 170mm x 45mm
Weight	1.5 Kilograms
Mounting Method	2 Flanges w/2 in Keyhole Screw Slots each

