

Speed Bump License Plate Camera System Design

The *Speed Bump License Plate Camera™* is uniquely designed to use human nature as an effective force in aligning vehicles over the Camera enabled speed bump to capture and read license plates effectively.

All of us, at one time, or another has driven over or around speed bumps that span streets or driveways. If the speed bump tapers 2-3 ft. from a curb you will notice drivers moving their vehicles to the right to lessen the speed bumps impact on their vehicle. Also while driving; we try to miss objects in the center of the road by driving over them.

This human nature aspect is the driving force in creating our 48" *Speed Bump License Plate Camera™* system. Drivers will automatically drive over (startled) the speed bump, because of its size, to miss it, and at the same time align their vehicle in the camera's view exposing their license plate to the camera concealed within the speed bump. Therefore, speed bump alignment is the first and primary part of capturing license plate information.

Since the *Speed Bump License Plate Camera™* system uses video cameras, a DVR (Digital Video Recorder) should be used in conjunction with the Speed Bump. We recommend IDview DVR with a recording rate of 30fps (frames per second), per channel, to capture license plate images.

An example would be that a vehicle traveling 20 MPH (miles per hour) over the speed bump would give the DVR approximately 8-10 frames to capture the license plate. Speeds, which are increased, would lessen the capture rate; Speeds lower, will increase the capture rate.

Specific application of the *Speed Bump License Plate Camera™* system can vary, however the products desired purpose, is to capture, make available to record, then produce photographs of license plates that include time, dated information for Law Enforcement evaluation.



Placement Suggestions

Installations, in Parking Garages, Drive-thru, Toll Plazas or 2 Lane Driveways require less installation thought because, pavement or curbs control entrances and exits, and lanes are narrower in many instances than normal streets.

In these circumstances the *Speed Bump License Plate Camera™* should be mounted directly in the center of the vehicle lane.

For installations where driveways or traffic lanes are wider and longer than controlled ones, speed bump placement will require an understanding of traffic patterns, prior to speed bump placement. In these installations small 3" Dot Bumps may need to be used to define traffic lanes or desired direction of vehicle travel.

Please consider the following:

1. Is the center of the driveway or traffic lane clearly marked?
 - If not, the use of a dual line of 3" Dot Bumps mounted 30" apart will define the center of a driveway and set driver perimeters.
2. How long is the driveway or traffic lane and is it directional at the end?
 - The entrance arch of a vehicle when entering or leaving,
 - The distance the vehicle takes to straighten itself out in the driveway or traffic lane and,
3. Whether the vehicle will turn left or right when the lane ends.



Installation Suggestions

Supplied with the *Speed Bump License Plate Camera™*, are (3) – 3/8" X 6" Lag Bolts, and (3) – 1/2" X 2" Lead pavement holders. These will be used to hold the Speed Bump to the pavement surface.

Caution: *Do not epoxy Speed Bump to the pavement. Speed Bump removal may be necessary to service cameras or wiring.*

After Speed Bump location is determined place the Speed Bump on the surface. Mark the surface around the Speed Bump for later alignment.

There are (3) 3/8" mounting holes located on the top of the Speed Bump. Use a 3/8" Cement Drill to drill down through the holes to mark the surface.

Remove the Speed Bump and drill previously marked surface with a 1/2" Cement Drill to a depth of 4 1/2".

Install the 1/2" X 2" directional lead pavement holders to a depth of 1/2" from the pavement surface.

After wiring is provided to the Speed Bump, Speed Bump installation can resume.

Connect wiring to cameras and use provided Shrink Tubing to seal all connectors. Secure wiring and connectors to the top of the channel with provided wiring clips to keep connectors raised from surface water.

Place Speed Bump over previously marked pavement, making sure that camera wiring is carefully within the 1- 1/4" channels located on the under surface of the Speed Bump. Insert 3/8" X 6" Lag bolts and tighten to secure Speed Bump to the pavement.

Installation is now complete. Camera angles are set to read license plates from Speed Bump.

Camera Wiring:

DVR to *Speed Bump License Plate Camera™*:

IDView does not wish to provide the how-to instructions for the *Speed Bump License Plate Camera™* system wiring. Wiring may be required through building walls, across lawns, cement walkways – driveways – or asphalt surfaces.

Please consult your local Building Departments and/or Electrician for all codes which will pertain to the installation of the *Speed Bump License Plate Camera™* system.

Camera requires 12V DC voltage.

IDView Technologies

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Product Picture and Part Number



Part Number	Description
IV-LSBC-1	Single Camera <i>Speed Bump License Plate Camera™ System</i>
IV-LSBC-2	Dual Camera <i>Speed Bump License Plate Camera™ System</i>
	Accessories
IV-PAM3	3" Pavement Alignment Marking Dots
IV-PAM3EX	Pavement Marking Dot Epoxy (2) 1-Gallon Cans

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Speed Bump License Plate Camera™

Warranty Policy

The *Speed Bump License Plate Camera™* system is designed to align and capture vehicle license plates within the parameters set forth in the Installation and Placement Suggestions.

Due to the mounting placement and nature of the *Speed Bump License Plate Camera™* system, there are recognized and understood inherent items that may affect the operation of this product. These included, but are not limited to, dust, dirt, leaves, road grime, oil, flooding, snow, rain, ice, improper installation and condensation. A maintenance schedule must be instituted to address these inherent issues for proper operation of this product.

Test results demonstrate a better than 90% license plate capture rate using a DVR (Digital Video Recorder) operating at 30 fps, (frames per second) per channel. Determining factors were vehicles without front or rear license plates, or vehicles which have trailer hitches, large rear bumpers which impede camera view. DVR Memory will determine the number of days license plate information can be recovered from a DVR hard drive.

IDView Technology, the distributor of the *Speed Bump License Plate Camera™*, offers a 1 year limited warranty on the Speed Bump and Cameras only. This limited warranty covers defects in the Speed Bump and Camera which may be repaired or replaced at the sole discretion of the manufacturer. Warranted products which demonstrate improper installation or user abuse will void all warranties expressed or implied. Installation labor and shipping is not warranted.



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