

MINIMUM SPECIFICATIONS FOR TWO NEW VEHICLE MOUNTED AUTOMATIC
 LICENSE PLATE RECOGNITION (ALPR) SYSTEMS
 (ONE THREE CAMERA AND ONE TWO CAMERA SYSTEM)

The following specification is intended to fully describe a new vehicle mounted Automatic License Plate Recognition system. The system must be designed for United States markets and for use in the United States.

	Check If Meet or Exceed	Describe Offered Alternatives
I. General:		
1. This specification intends to describe the requirements for the vehicle mounted Automatic License Plate Recognition systems.		
2. The systems must have the capability to capture vehicle license plates at speeds of at least 130 mph with license plate capture and read accuracy rates in excess of 90%. This capture and accuracy rate must be based on plates typically encountered in our jurisdiction.		
3. Both systems must be capable of capturing license plates in the following situations: <ul style="list-style-type: none"> a. Any vehicle moving parallel in an adjacent lane to the police vehicle whether the police vehicle is moving or not. b. Any vehicle moving parallel to the police vehicle on the left side two lanes away. b. Any vehicle parked parallel to the roadway on the shoulder in the same or adjacent lane of travel as the police vehicle. c. Any vehicle parked in an angled parking stall on either side of the police vehicle. Additionally, one of the systems must		

be able to read plates on any vehicle parked perpendicular to the police vehicle on the right side.		
4. The systems must be designed to withstand and be able to operate under environmental conditions associated with Lewis County in a variety of temperature, weather, and lighting situations.		
5. Both systems must have the capability of supporting four (4) cameras operating simultaneously to match license plates. One system will consist of three (3) cameras and one system will consist of two (2) cameras to meet the license capture requirements under number 3 above.		
6. The systems must be compatible with existing computer equipment and software, both in the police vehicles and the back-office.		
7. State the warranty periods for the below listed items:		
a) Overall:		
b) Cameras:		
c) Processor Units:		
d) Back-office Software/OCR Engine:		
8. The bid is for the equipment and software only. Installation costs will be provided in a separate document .		
9. The successful bidder will be required to deliver the completed unit to 351 N.W. North St., Chehalis, WA 98532 within 4 weeks of placing order.		
II. <u>Cameras:</u>		
1. The cameras must have the capability of using an infrared camera for license		

plate capture and a color camera to capture an image of the vehicle contained in one housing.		
2. The cameras must not emit any visible light from the infrared illuminators.		
3. The systems must be able to detect the presence of unobstructed vehicle license plates in the camera's field of view.		
4. The cameras must be capable of being permanently mounted on the outside of a police vehicle in a low-profile manner. Brackets for permanent mounting and temporary (magnetic) mounting of the cameras must be included in the bid price.		
5. There must be no moving parts in any of the cameras.		
6. The cameras must provide effective license plate capture at night in total darkness with no additional external lighting required.		
7. The infrared cameras must meet "eye safe" certification standards.		
8. The cameras must be sealed to IP67 standards.		
III. <u>Software:</u>		
1. The software must be capable of supporting a minimum of 15 "hotlist" databases, with each database holding up to a million records.		
2. The System Administrator must have the capability to customize department databases to include a color code and custom message (both audio and displayed) on a "hit".		
3. "Hotlist" and license data must be capable of being transferred by USB, wireless aircard, or WIFI.		

	Check If Meet or Exceed	Describe Offered Alternatives
<p>4. Both the back-office software and in-car software must have a login process which requires a user name and password. The System Administrator must be able to add, delete, and edit user accounts as well as reset or change passwords. The level of security for the in-car and back-office systems must allow the System Administrator to restrict access to each system independently.</p>		
<p>5. The in-car software must be able to provide a response to a "hit" in less than 2 seconds when comparing to multiple databases containing up to 10,000,000 records.</p>		
<p>6. The systems must be capable of incorporating a database imported from or created by our existing Spillman CAD/Records system.</p>		
<p>7. The systems must allow users in the field to add license plate data to the databases. This information would include not only the license plate information but also custom user text. This license data should remain in the system until overwritten by a new/updated database or by the System Administrator.</p>		
<p>8. The systems must have the capability of allowing the System Administrator to define license plate numbers and/or characters that can be interpreted in different variations. These include plates which have two or three "stacked" characters/numbers which may be read by the system as a single character or plates where non-character/non-number pictures are read by the system as being a character/number.</p>		

	Check If Meet or Exceed	Describe Offered Alternatives
9. As part of the system maintenance agreement, software updates and revisions must be provided during the term of the agreement.		
10. The systems must be capable of providing live real-time display information to include the IR license plate image, the system interpretation of the license plate, the alternative versions of the license plate the system is checking the databases, the corresponding color image of the vehicle related to the IR license plate, the date and time of the image capture, and the identification of the camera capturing the related image.		
11. The systems must be capable of displaying live real-time display of any camera(s) the user specifies. The user must be able to change real-time camera views easily from the in-car software.		
12. When the systems identify a "hit" of a license plate, the information provided should be timely and include the color coded database title where the match occurred, the IR license plate image, the system interpretation of the license plate, the corresponding color image of the vehicle, the date and time of the image capture, the identification of the camera which received the "hit", the GSP coordinates, and all narrative text, if any.		
13. The in-car software should be capable of operating on the department's existing laptop computers simultaneously with other software used in the cars with little or no noticeable impact on computer performance.		

	Check If Meet or Exceed	Describe Offered Alternatives
14. The in-car software must be capable of operating in the “background” on the laptop and then appearing on the screen over other applications in the event of receiving a “hit”.		
15. The in-car software should allow the user to acknowledge a “hit” or somehow allow them to continue to use other software applications after being advised of the “hit”. The system should be capable of continuing to process and record license plate data while the “hit” is displayed without user intervention.		
16. In the event that a subsequent “hit” occurs while the original “hit” is displayed, the system must somehow alert the user that a subsequent hit occurred and the information is waiting to be viewed.		
17. The in-car systems must allow the user to manually search for full or partial license plate in the systems’ databases. If a match is found, the systems must be able to provide information on the date and time of the license plate match, the IR image of the match, a color image of the match, and the GPS coordinates of the match.		
18. The in-car systems must allow a user to review all information on “hits”, license plate read images and data, and searches performed by the user including the date and time it was conducted.		
19. A mapping feature must be included with the in-car and back-office systems to allow users to view locations of “hits” upon request.		

	Check If Meet or Exceed	Describe Offered Alternatives
IV. <u>ALPR Processor:</u>		
1. The processors must be capable of being mounted in a fixed or temporary location within the vehicles.		
2. The processors must be able to withstand the extreme vibration, temperature, and other similar conditions related to being mounted inside patrol vehicles.		
3. The processors must be able to safely shut down and turn on each time the vehicles' ignition is turned off and on.		
4. The in-car systems must be able to operate along with other patrol vehicle equipment without impacting the electrical systems or affecting other components in the vehicles.		
5. The ALPR processors must control the electrical power source supplied to the cameras and provide video connection points.		
V. <u>Administration/Management:</u>		
1. The systems will include customized back-office software which allows for the management and organization of data collected by the ALPR systems or be compatible with our existing back-office system (PIPS BOSS).		
2. The back-office system will allow authorized persons to manage database functions and generate statistical reports on activity and data, including information on "hits", between user-specified time periods. Statistical reports should be customizable by the System Administrator based on agency needs.		

	Check If Meet or Exceed	Describe Offered Alternatives
<p>3. The back-office system will allow authorized users to search the database of collected plates for full or partial license plates and return information to include an IR image of the license plate, the system interpretation of the license plate, a color image of the vehicle, the date and time of the entry, the user who captured the information, and the GPS coordinates.</p>		
<p>4. The back-office system will include a mapping function. Mapping will allow users to view specific license plate captures, "hit" captures in a specified period of time, and license plate captures in a specified time period. The mapping function should allow for the ability to zoom in and out of areas on the map while displaying data.</p>		
<p>5. The back-office system will function properly on our existing server and will not compromise security features or negatively effect current software and hardware usage.</p>		
<p>6. The system must accept a variety of databases from different sources, including local, state, and national databases.</p>		
<p>7. The system must allow the System Administrator to set access levels for different personnel based on user responsibilities.</p>		
<p>8. The system must provide for remote access to stored data. The minimum requirement is to allow access using terminals connected to the local network.</p>		

	Check If Meet or Exceed	Describe Offered Alternatives
9. The back-office system should have a maximum retention period for license plate capture data to be set by the System Administrator. The removal of data longer than the set time period should occur automatically.		
VIII. <u>Warranty:</u>		
1. All systems are to be covered by a twelve (12) month parts and labor warranty.		
2. Continuing/extended maintenance warranty costs and coverage details shall be included in the bidding documents.		
3. All necessary documents and manuals will be provided.		
4. Warranty shall begin on the date the system is placed into service, not the delivery date.		
5. Copies of all applicable warranties must be submitted with bid package.		
6. If the unit, or parts of the unit are sent to the dealer or recalled and cannot be repaired within ten (10) working days, a loaner of comparable function must be supplied to Lewis County at no charge.		
7. Items purchased under this contract shall be guaranteed against defect with full credit given. Bidder is responsible for picking up defective items or arranging for a Call Tag to insure freight is charged to Bidder on defective returns.		

	Check If Meet or Exceed	Describe Offered Alternatives
8. Products furnished that are below the County's standard or not for the intended use shall be returned to the Bidder at their expense.		
9. The successful Bidder guarantees the goods and services furnished under this contract shall conform to all the requirements of this contract. The Bidder is responsible for all costs of replacement, including shipping charges, for goods found to be defective within the warranty period.		
10. Lewis County shall receive the increased warranty benefits if the Bidder or original manufacturer provides a warranty that is greater in scope or duration.		
11. The Bidder shall, upon request, provide the County complete copies of all written warranties or guarantees and/or documentation of any other arrangement relating to such warranties or guarantees extended to the Bidder by their suppliers, Bidders, distributors and sub-Bidders covering parts, component, sub-components and systems procured through this contract.		
12. The County shall be neither obligated by nor restricted to the quantities indicated.		
IX. <u>General:</u>		
1. Only new models in current production that are cataloged by the manufacturer, and for which printed literature and specifications are available.		

	Check If Meet or Exceed	Describe Offered Alternatives
<p>2. A performance demonstration may be required before bid award. Performance demonstration will be of unit per basic specifications.</p>		
<p>3. All standard equipment and components necessary for operation and normally supplied shall be furnished, even if not called out in specifications.</p>		
<p>4. All equipment shall be new. Used, demonstration, rebuilt or remanufactured equipment is unacceptable. All items requested in the specifications must be factory available, no aftermarket equipment will be accepted.</p>		
<p>5. The equipment shall have full dealer preparation and be ready for service when delivered.</p>		
<p>6. Manufacturers approved training for a minimum of three (3) persons. Training to cover all unit systems, troubleshooting and diagnosis. Date and location shall be set upon delivery of equipment. Bidder must submit course outline with bid.</p>		
<p>9. The equipment will not be considered "delivered" and payment will not be processed without the following items:</p> <ul style="list-style-type: none"> a) Original billing invoice. b) One (1) operator's manual per unit. 		

	Check If Meet or Exceed	Describe Offered Alternatives
X. <u>Parts Support:</u>		
<p>1. In addition to the acquisition cost of equipment, this invitation to bid addresses the Lewis County's need for parts associated with equipment maintenance. Therefore, this bid takes into consideration not only the equipment price, but also the cost of repair parts after the purchase.</p>		
<p>2. Service Expectation: The Bidder's employees shall be knowledgeable in the products listed. The Bidder is expected to assist purchasers in making cost effective parts purchases. Assistance includes but is not limited to suggesting economic order quantities and less costly equal quality substitutes</p>		
<p>3. The manufacturer and bidder shall guarantee that part prices will be as low as such parts are sold to any other user purchasing similar quantities, and that if at any time the prices are reduced or increased to the general trade, it is understood that Lewis County shall not pay a higher price than any other user purchasing similar quantities, effective with the date of such price reduction or increase to the general trade.</p>		
<p>4. Parts Returns:</p> <p>Lewis County reserves the right to return parts if needed. Reasons for return may include, but are not limited to:</p> <ul style="list-style-type: none"> a) Item failure or defect b) Wrong item shipped a) Incorrect item ordered Item no longer needed 		

	Check If Meet or Exceed	Describe Offered Alternatives
<p>6. The Bidder shall immediately provide a receipt for all returned stock. In accordance with its best interest, Lewis County may select any of the three restitution options:</p> <p>a) Item replacement: Bidder shall provide the replacement item within the time established.</p> <p>b) Credit: Bidder shall issue a credit within three (3) business days of receiving an item.</p> <p>c) Reimbursement Check: Bidder shall issue a reimbursement check within twenty (20) business days after receiving an item.</p>		
<p>7. Warranty:</p> <p>Items purchased under this contract shall be guaranteed against defect with full credit given. Bidder is responsible for picking up defective items or arranging for a Call Tag to insure freight is charged to Bidder on defective returns.</p>		
<p>8. The expiration or termination of this contract shall in no way relieve the Bidder from its warranty /guarantee responsibility.</p>		
<p>9. Telephone Contact:</p> <p>The Bidder shall provide contact name and a direct telephone number. Electronic voice mail is not acceptable as an answering service.</p> <p>Contact Name: _____</p> <p>Telephone: _____</p>		

	Check If Meet or Exceed	Describe Offered Alternatives
<p>10. Estimated Quantities:</p> <ul style="list-style-type: none"> a) The items listed represent Lewis County's anticipated approximate requirements and shall be used in the bid evaluation analysis. Quantities listed are to be purchased on an as needed basis. b) This is NOT a one-time purchase nor authorization to order. c) Parts other than those listed may be obtained under the terms of this contract. 		
		END