

**CERTIFICATION CONCERNING DESIGN AND  
CONSTRUCTION OF SPEED MEASURING DEVICES (SMD'S)  
RE: LIDAR LASER (LIGHT DETECTION AND RANGING)**

**STATE OF WASHINGTON**

**COUNTY OF KITSAP**

I, **Edward E. Cole**, swear under penalty of perjury of the laws of the State of Washington **that the following is true and correct:**

- 1) I am employed by, and proprietor of, Wescom Communications located at 14760 Starr Rd. SE, Olalla, WA. Cell phone (206) 579-6690; Email wescom500@msn.com
- 2) In this employment, I maintain, repair, calibrate and certify the accuracy of electronic speed measuring devices; (SMD's), Lidar Laser, and Radar.
- 3) Wescom is retained by the **City of Renton Police Department** to maintain, repair, calibrate, and certify the accuracy of electronic speed measuring devices.
- 4) I have the following education, experience and qualifications with respect to maintaining, repairing, calibrating and certifying speed measuring devices:
  - a) I hold a Federal Communications Commission license with, a radar endorsement; dated August 1984, license #PG-14-1247.
  - b) I have successfully completed a two (2) year course at Clover Park Vocational Technical College and hold a Land, Mobile, Marine Communications certificate, dated July 1985.
  - c) I have successfully completed a Lidar Laser manufacturer's course and training which encompassed design, construction, repair, maintenance, calibration, and certification of the Lidar Laser speed measuring device, and received a Kustom Signals certificate dated November 1997.
  - d) I have successfully completed a radar Manufacturer's training course which encompassed the design and construction of radar instruments, the repair, maintenance, calibration and certifying of speed measuring devices, and hold Kustom Traffic Radar Safety Systems certificates from 1987 and 1997.
  - e) **I have accumulated over 38 years and approximately Thirty Thousand (30,000) hours** in repair, maintenance, calibration and certification of speed measuring devices, as of the date of this affidavit.
- 5) Wescom Communications is an authorized service center for speed measuring devices, and as a course of business, maintain service manuals for the Lidar Laser, of which I am personally familiar, and make these available for inspection, upon request, at the above office address, for any contest of a notice of infraction.
- 6) Through education, experience, and training, I am personally familiar with the design, construction, and operation of these speed measuring devices. In regard to the Lidar Laser, it is designed and constructed so as to accurately and reliably employ measurement techniques based on the velocity of light as a constant in such manner that each Lidar Laser speed measuring device will give accurate and reliable measurements of the speed of motor vehicles when used by a trained operator.

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7) Wescom maintains a quality assurance testing, calibration, and certification program wherein each speed measuring device is routinely inspected and tested every 12 months by the following means;

- a) *Self-calibration Test*; wherein each instrument's self calibration is verified during the initial power on and when the self-test switch is activated,
- b) *Scope Alignment Test*, wherein each instrument's scope aiming reticle is verified to be aligned with the Lidar Laser beam at all target distances,
- c) *General Operation and Maintenance Check*, wherein each instrument's display and all function controls are tested for accurate operation,
- d) *Range Accuracy Test*, wherein each instrument's range measurements are verified to be accurate to plus (+) or minus (-) six inches,
- e) *Speed Accuracy Test*, wherein each instrument's speed readings are compared to speed readings received and displayed by a calibrated Doppler radar speed measuring device, (*Kustom Trooper KK19794 that I personally calibrated and certified for accuracy on 08-12-2023, 05-31-2023 and on 04-05-2023.*), and that these speed readings are taken simultaneously on an isolated lone targeted motor vehicle and the speed ready accuracy was within (+) or (-) one mile per hour by comparison,
- f) *Display Test*, where each instrument's display segments are verified accurate,
- g) *Audio Test*, wherein each instrument's audio output is verified,

8) The Lidar Laser speed measuring device listed below was submitted to Wescom Communications by the **City of Renton Police Department** to be tested and evaluated by the quality assurance program noted above, and pursuant to that request, I Edward E. Cole, performed all of the program tests, and found that this speed measuring device/radar met or exceeded existing performance standards;

9) Based upon my education, training and experience, and my knowledge of the Lidar Laser speed measuring device listed below, it is my opinion that this instrument is so designed and constructed as to accurately and reliably employ measurement techniques based on the velocity of light as a constant, in such a manner that each Lidar Laser speed measuring device will give accurate measurements of the speed of motor vehicle when properly tested and operated by trained operator with an accuracy of plus (+) or minus (-) one mile per hour.

Kustom Pro Laser 3 PL14798	Test Date 04-05-2023.
Kustom Pro Laser 3 PL15146	Test Date 04-05-2023.
Kustom Pro Laser 3 PL16826	Test Date 05-31-2023.
Kustom Pro Laser 4 LF22599	Test Date 08-12-2023.
Kustom Pro Laser 4 LF23439	Test Date 08-12-2023.
Kustom Pro Laser 4 LF23440	Test Date 08-12-2023.
Kustom Pro Laser 4 LF23441	Test Date 08-12-2023.
Kustom Pro Laser 4 LF23442	Test Date 08-12-2023.
Kustom Pro Laser 4 LF23443	Test Date 08-12-2023.

STATE OF WASHINGTON  
COUNTY OF KITSAP

Signature: Edward E. Cole

Printed Name: Edward E. Cole, DATE AND PLACE 8-12-2023 Olalla, Washington.

**CERTIFICATION CONCERNING DESIGN AND  
CONSTRUCTION OF SPEED MEASURING DEVICES (SMD'S)  
RE: LIDAR LASER (LIGHT DETECTION AND RANGING)**

**STATE OF WASHINGTON**

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to maintain, repair, calibrate, and certify the accuracy of electronic speed measuring devices.
- 4) I have the following education, experience and qualifications with respect to maintaining,  
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Laser speed measuring device, and received a Kustom Signals certificate dated November 1997.
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design and construction of radar instruments, the repair, maintenance, calibration and certifying  
of speed measuring devices, and hold Kustom Traffic Radar Safety Systems certificates from  
1987 and 1997.
  - e) **I have accumulated over 35 years and approximately Thirty Thousand (30,000) hours in**  
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this affidavit.
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**JUN 14 2023**

**RENTON MUNICIPAL COURT**

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9) Based upon my education, training and experience, and my knowledge of the Lidar Laser speed measuring device listed below, it is my opinion that this instrument is so designed and constructed as to accurately and reliably employ measurement techniques based on the velocity of light as a constant, in such a manner that each Lidar Laser speed measuring device will give accurate measurements of the speed of motor vehicle when properly tested and operated by trained operator with an accuracy of plus (+) or minus (-) one mile per hour.

**Kustom Pro Laser 3 PL14798    Test Date 04-05-2023.**  
**Kustom Pro Laser 3 PL15146    Test Date 04-05-2023.**  
**Kustom Pro Laser 3 PL16826    Test Date 05-31-2023.**

STATE OF WASHINGTON  
COUNTY OF KING

Signature: Edward E. Cole ,

Printed Name: Edward E. Cole ,    DATE AND PLACE 5-31-2023    Renton, WA.



**KUSTOM SIGNALS, INC.**  
A PUBLIC SAFETY EQUIPMENT COMPANY

# CERTIFICATE OF ACCURACY and CALIBRATION

This is to certify that on 24 February, 2023 the instrument listed below was tested and found to meet the manufacturer's specifications of accuracy,  $\pm 1$  MPH.

Manufacturer: Kustom Signals, Inc.

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Model: Pro Laser III

RENTON MUNICIPAL COURT

Serial Number: PL14798

Oscillator frequency measured 20.000840 MHz

Frequency tolerance allowed: 19.9980 - 20.0020 MHz

Calibration procedures verified by: Kevin J. Unrein

whose FCC license number is: PG-17-21280

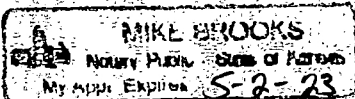
and has an expiration date of: NO EXPIRATION DATE

The instrument(s) used to certify the accuracy of the above device has been calibrated within the previous year and is traceable to the National Institute of Standards and Technology.

I, the undersigned, certify that I have conducted the calibration and accuracy tests and found the above listed device to be accurate within the manufacturer's specifications.

Technician: [Signature]

Subscribed and sworn to me this 24<sup>th</sup> day of February, 2023



[Signature]  
NOTARY PUBLIC