



FILED
OCT 07 2012
LYNWOOD
WA

DAY WIRELESS SYSTEMS
2902 Hewitt Avenue
Everett, Washington 98201
(425) 258-0554
Inventory # 155956

ORIGINAL

**CERTIFICATE CONCERNING DESIGN AND CONSTRUCTION
OF ELECTRONIC SPEED MEASURING DEVICES
IRLJ RULE 6.6 EFFECTIVE 1/3/2006**

I, **Les J. Boyd**, do certify under penalty of perjury as follows:

I am employed with **DAY WIRELESS SYSTEMS**. My duties include supervising the maintenance and repair of Doppler and Laser speed measuring devices (SMD's) used by **LYNWOOD POLICE DEPARTMENT**.

<u>Manufacturer</u>	<u>Model</u>	<u>Serial Number</u>
APPLIED CONCEPTS	STALKER II	AS008046
	25.3 MPH Tuning Fork	FA169864
	40.25 MPH Tuning Fork	FB297871

I have the following qualifications with respect to the above stated SMD:

Washington Technical Institute for Radio/Electronics, Bell & Howell for Electronics and Advanced Schools Incorporated for Automotive/Electronics, plus numerous courses pertaining to communications and electronics, trained by a State licensed technician. Thirty years experience in repair, maintenance, and calibration of electronic products. Successfully completed the MPH Ind. Factory training on the moving and stationary Doppler SMD's and was trained by a certified SMD technician on repair/calibration of the Laser Technologies INC. (LTI) Lidar products.

Day Wireless Systems maintains manuals for the above stated SMD. I am personally familiar with those manuals and how the SMD is designed and operated. On **SEPTEMBER 19, 2012**, I, Les J. Boyd, performed testing of the above SMD. The unit was evaluated to meet or exceed existing performance standards. Day Wireless Systems maintains a testing and certification program of this SMD.

The Doppler program specifies: test procedures consisting of utilizing precision signal generators, connected to a factory waveguide assembly via coaxial cable; to simulate speeds at 5 mph increments from 20mph to 120mph to verify accuracy. In moving mode; two signals are applied simultaneously, separated through attenuation. Measurements are taken of transmit frequency; transmit output, operating current, receiver sensitivity and any accompanying tuning forks. Operational functions are tested.

The Laser SMD sends out a series of much focused light wave pulses each time the trigger is pulled and utilizes two laws of physics, time and distance (i.e. 3.5 feet in diameter at 1000 feet). Since the speed of light is a known value, the distance of the target can be determined by calculating how long it takes for the signal to travel to the target and back. This series of measurements will allow the SMD to calculate the speed of the target by measuring the distance traveled in an amount of time (usually less than a second for a veritable display). The displayed speed will be accurate to within +/- 1 mph. Day Wireless Systems does hereby certify the above listed SMD meets manufacturer's published specifications and has been calibrated using standards whose accuracy's are: In compliance and traceable to the National Institute of Standards and Technology.

Based upon my education, training, experience, and knowledge of the SMD listed above, it is my opinion that each of these pieces of equipment is so designed and constructed as to accurately employ the Doppler effect in such a way that it will give accurate measurements of the speed of motor vehicles when properly calibrated and operated by a trained operator or, in the case of the laser SMD, each of these pieces of equipment is so designed and constructed as to accurately employ measurement techniques based on the velocity of light in such a manner that it will give accurate measurements of the speed of motor vehicles when properly calibrated and operated by a trained operator.

Certified by: Les J. Boyd
Place: Everett, Washington

STATE OF WASHINGTON
County of Snohomish ss.



Signed or attested before me on **SEPTEMBER 19, 2012** by Les J. Boyd

Heather M. Mulka
NOTARY PUBLIC in and for the State of
Washington, residing in Everett. My
Appointment expires March 5, 2016.

ORIGINAL



2902 HEWITT AVENUE
 EVERETT, WA 98201-3822
 www.daywireless.com
 (425) 258-0554

SMD PERFORMANCE REPORT RADAR

CUSTOMER: <u>Lonwood PD</u>		MANUFACTURER: <u>Applied Concepts</u>		BAND: <u>K</u>		CUSTOMER NO. <u>361</u>	
ADDRESS:		MODEL NUMBER: <u>Stalker II</u>		JOB TICKET: <u>155956</u>		DATE RECD: <u>9.19.12</u> DATE CAL'D: <u>9.19.12</u>	
CITY: STATE: ZIP:		UNIT SERIAL NUMBER: <u>45 008046</u>		ASSET NUMBER:		DUE DATE: <u>9.13</u>	
ATTN: TEL:		ANTENNA SERIAL #:		PERFORMANCE TESTS:		PASS	
REASON FOR SERVICE: <u>ROUTINE CALIBRATION</u> <input checked="" type="checkbox"/>		FREQUENCY GHZ: <u>34.700</u>		FREQUENCY GHZ:		LAMP TEST: <input checked="" type="checkbox"/>	
		SENSITIVITY: <input checked="" type="checkbox"/>		SENSITIVITY: <input checked="" type="checkbox"/>		ICT: <input checked="" type="checkbox"/>	
		STATIONARY: <input checked="" type="checkbox"/>		MOVING: <input checked="" type="checkbox"/>		SQUELCH: <input checked="" type="checkbox"/>	
		SPEED ACCURACY: <input checked="" type="checkbox"/>		PASS: <input checked="" type="checkbox"/>		DAY/NIGHT: <input checked="" type="checkbox"/>	
COMMENTS: <u>Cold to Specs</u>		TUNING FORK:		LOCK/REL: <input checked="" type="checkbox"/>		PATROL BLANKING: <input checked="" type="checkbox"/>	
MEETS MFR. SPECS. <input checked="" type="checkbox"/>		MPB 3 SN <u>FA 169864</u> HZ <u>4116</u>		AUDIO: <input checked="" type="checkbox"/>		LOW VOLTAGE: <input checked="" type="checkbox"/>	
		MPH 0.27 SN <u>FB 297871</u> HZ <u>4170</u>		RANGE: <input checked="" type="checkbox"/>		RFI: <input checked="" type="checkbox"/>	
				HOLD/STBY: <input checked="" type="checkbox"/>		REMOTE: <input checked="" type="checkbox"/>	
				COHESION DET: <input checked="" type="checkbox"/>		SAME PAGES FIRST: <input checked="" type="checkbox"/>	
TECHNICIAN SIGNATURE: <u>Joe P. Boyd</u>							