





MUNICIPAL COURT

6640 185th Ave NE, Redmond, WA 98052

T.425.895.8617, F.425.702.9358

DESCRIPTION:

ON-SITE CERTIFICATE #:

00264362

CERTIFICATE OF CALIBRATION

STANDARD CALIBRATION

CLYDE HILL POLICE DEPARTMENT

9605 NE 24TH ST. CLYDE HILL, WA 98004

This certifies that the instrument listed herein was calibrated by Cascade Engineering Services' Calibration Laboratory, which is fully accredited in accordance with the recognized International Standards ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories. Cascade Engineering Services' Calibration Laboratory also meets the requirements of ANSI/NCSL 2540-1-1994 and any additional program requirements in the field of calibration used to perform this calibration are certified by or traceable to NIST, natural physical constants, consensus standards or derived by the ratio type of calibrations. All calibrations are performed to manufacturer's specifications unless otherwise noted. Standard Calibration, while still traceable, does not meet all requirements for an Accredited Calibration per ISO/IEC 17025:2017, that is "As Found" data for equipment in tolerance and Measurement Uncertainties are not recorded. This certificate shall not be reproduced, except in full, without prior written approval of the laboratory.

SPEED MEASURING DEVICE

THE PARTY OF THE P				
ASSET #:	PYT124000663	SERIAL NUMBER:	PYT124000663	
MANUFACTURER:	MPH INDUSTRIES	MODEL NUMBER:	PYTHON III	
DEPARTMENT:	N/A	PATROL CAR #:	N/A	
ENVIRONMENT:	74.0 °F/32.0 %RH	BASIC ACCURACY: REI	FERENCE MFG SPECIF	ICATIONS
CAL INTERVAL:	12 MONTHS	DUE DATE:	September 04, 202	5
Initial testing found this EQUIPMENT CON	DITION AS RECEIVED equipment to be "IN TOLERANCE", as DITION AS DELIVERED			
At the completion of the	calibration, measured values were "IN	N TOLERANCE", as defined by the	ne basic accuracy stated a	above.
TUNNING FORK(S) SUPPLIED WITH THIS DEVICE	CE		
DESCRIPTION	SERIAL NUMBER	RATED SPEED	FREQUENC	Y
TUNING FORK ONE TUNING FORK TWO	70621 69972	35 M. 65 M.		2518 Hz 4680 Hz
	1015736, Frequency: 24.157 GHz		331015737, Frequency: 2	
		Antenna 2 ort. 1 110	o to for or, i requestey. 2	.4.107 0112
	ED FOR CERTIFICATION			
I.D. MC	DDEL MANUFACTURER	HAND HELD RADAR CERTIFICATION		DUE DATE
MET1231 VOCAR HR W	DB INNOVATIONS /AND DB INNOVATIONS	VOCAR HR WAND		3/26/2025 3/26/2025
PROCEDURE(S) II	SED FOR CERTIFICATION			
DOCUMENT ID		ESCRIPTION	REV I	REV DATE
CP-SMD-001	RADAR AND LIDAR CALIBRATION PROCED			1/14/2019
CERTIFICATION N				
CLIVIII ICATION IN	0123			
I certify (or declare) under	penalty of perjury under the laws of the S	tate of Washington that the above in	formation is true and correct	t
	- T			
			ON: CLYDE HILL,	
PERFORMED BY	SEMOR METROLOGIST, JOHN GRAY	CALIBRATION DA	ATE: Wednesday, Septemb	er 04, 2024
	REDITED TO ISO/IEC 17025:2017 (GENERAL REQUIREMEN	TS FOR THE COMPETENCE OF TESTING AND CALI	IBRATION LABORATORIES), CERTIFICA	ATE # 2560.01
F540-1.3/REVISION M MARCH 2020		THIS DOCUMENT IS MA	AINTAINED	Page 1 of 1





ONSITE DAILY SUMMARY LIST

ONSITE DATE: Wednesday, September 04, 2024

CLYDE HILL PD				CURRENT PO:	(<u></u>	
Asset / ID Number	MANUFACTURER	MODEL NUMBER	DESCRIPTION		DEPARTMENT	RESULT
PYT124000663	MPH INDUSTRIES	PYTHON III	SPEED MEASURING DEVICE		N/A	PASS
		Nu	umber Processed: 1			
Customer Signatu	re:				Date:	





MUNICIPAL COURT



6640 185th Ave. NE. Redmond, WA 98057 1425.895.6617, 1425.702.9358

CERTIFICATION CONCERNING DESIGN AND CONSTRUCTION OF ELECTRONIC SPEED MEASURING DEVICES

IRLJ RULE 6.6 EFFECTIVE 1/3/2006

I, John R. Gray, do certify under penalty of perjury, under the laws of the state of Washington as follows:

I am employed with Cascade Engineering Services, Inc. (CES) Metrology and Electronics Repair Services, as a Senior Metrology Technician. I have been employed in such a capacity since 2008. Part of my duties include calibration, maintenance and repair of all electronic doppler radar and laser speed measuring devices (SMD's) used by CLYDE HILL POLICE DEPARTMENT.

All SMD's currently used by CLYDE HILL POLICE DEPARTMENT are listed in Exhibit "A".

I maintain the following qualifications with respect to SMD(s): More than 14 years of commercial experience in electronic test and measurement calibration and repair. I have successfully completed training courses in Doppler Radar & Lidar theory. I have over two years of experience in the repair and calibration of Doppler and Lidar SMD's. I am experienced and competent in the principles and fundamental requirements of test equipment calibration.

The CES laboratory maintains manuals for all of the SMD's listed in Exhibit "A". I am personally familiar with those manuals and how each of the SMD's are designed and operated. On the date indicated in Exhibit "A" testing of the SMD's was performed using CES procedures under the direction of an authorized SMD expert. The results were evaluated and certified to meet or exceed existing performance standards and entered into the CES certification management database. CES laboratory maintains a testing and certification program that requires each SMD to be tested and certified for accuracy at least once every two years.

The CES laboratory tests all Doppler SMD's used by CLYDE HILL POLICE DEPARTMENT, as recommended by the manufacturer, as follows: The Vocar HR, handheld Radar certification system is used to simulate speeds at 5 mph increments from 20 mph to 140 mph to verify accuracy in stationary and moving mode. Measurements are taken of the SMD transmit frequency, antenna/receiver sensitivity and any accompanying tuning forks are also tested for accuracy. All other operational functions of the SMD system are then tested for proper performance.

The Laser SMD's transmit a series of highly focused light wave pulses each time the trigger is pulled and utilizes two laws of physics; time and distance. Since the speed of light is a known fixed value, the range of the target is determined by calculating how long it takes for the light pulses to travel to the target and back. This series of measurements allows the SMD to calculate the speed of the target using an algorithm which processes the range calculations into speed measurements. The displayed speed is accurate to within plus (+) or minus (-) one (1) mile per hour.

The CES laboratory tests all Laser / Lidar SMD(s) used by CLYDE HILL POLICE DEPARTMENT, as recommended by the manufacturer, as follows: The Laser Speed Measurement Simulator (LSMS) is utilized to simulate a moving target. This is accomplished by detecting the optical output pulses of the laser device and generating artificial return pulses. Different speed values and ranges are simulated by varying the time delays between the input pulses and the return pulses. The LSMS consists of a Digital Delay Generator (DDG), and an optical interface unit. The DDG produces precise time delays. The optical interface unit converts the optical energy of the laser instrument into electrical signals which are supplied to the DDG. The optical interface unit also converts the electrical signals received from the DDG into optical energy which is then transmitted to the Lidar. The Lidar's output power is tested using an Ophir Nova Display, with a PD300-SH power head.

On the date indicated in Exhibit "A", each SMD was tested by myself or a trained technician listed therein and under my direction. All Technicians listed on Exhibit "A" received training in the proper use and operation of SMD test equipment and performance testing procedures used to test Laser and Doppler SMDs. After successfully completing training the technician is certified by myself and receives authorization allowing them to enter the results from the tests into the certificate management database. Individual Performance and Certification tests are entered into the certificate management database under the penalty of perjury by entering an authorized user id and password to authenticate it.

THIS DOCUMENT IS MAINTAINED AS A PUBLIC RECORD IN ACCORDANCE WITH RCW 5.44

Exhibit "A"

This agency, CLYDE HILL POLICE DEPARTMENT currently utilizes the following Laser SMD(s):

KUSTOM SIGNALS, INC. manufacturer's the following SMD(s):

I.D./Serial Number	Model Number	Antenna 1 S/N	Antenna 2 S/N	T.F. 1 S/N	T.F. 2 S/N	Cal. Date	Cal. Interval	Due Date	Technician
PL19672	PRO LASER III	N/A	N/A	N/A	N/A	08/23/2024	12 MONTHS	08/23/2025 JC	OHN R GRAY IV

This agency, CLYDE HILL POLICE DEPARTMENT currently utilizes the following Doppler SMD(s):

KUSTOM SIGNALS, INC. manufacturer's the following SMD(s):

I.D./Serial Number	Model Number	Antenna 1 S/N	Antenna 2 S/N	T.F. 1 S/N	T.F. 2 S/N	Cal. Date	Cal. Interval	Due Date	Technician
FH12675	FALCON	HANDHELD	N/A	45633	43464	08/23/2024	12 MONTHS	08/23/2025	JOHN R GRAY IV
MPH INDUSTRIES m	anufacturer's the	following SM	D(s):						
I.D./Serial Number	Model Number	Antenna 1 S/N	Antenna 2 S/N	T.F. 1 S/N	T.F. 2 S/N	Cal. Date	Cal. Interval	Due Date	Technician
PYT124000663	PYTH0N III	PYT831015736	PYT831015737	70621	69972	09/04/2024	12 MONTHS	09/04/2025	JOHN R GRAY IV
PYT124000664	PYTHON III	PYT831015738	PYT831015739	70623	70016	10/04/2023	12 MONTHS	10/04/2024	JOHN R GRAY IV
PYT124000727	PYTHON III	PYT831016321	PYT831016320	73863	73330	08/23/2024	12 MONTHS	08/23/2025	JOHN R GRAY IV
PYT124000711	PYTHON III	PYT831016105	PYT831016104	72397	72270	02/19/2024	12 MONTHS	02/19/2025	JOHN R GRAY IV
PYT124000537	PYTHON III	PYT831014894	PYT831014893	64737	64321	09/06/2024	12 MONTHS	09/06/2025	JOHN R GRAY IV
PYT124000728	PYTHON III	PYT831016323	PYT831016322	73928	73329	07/10/2024	12 MONTHS	07/10/2025	JOHN R GRAY IV
PYT124000899	PYTHON III	PYT831017208	PYT831017209	78779	78524	02/21/2024	12 MONTHS	02/21/2025	JOHN R GRAY IV
PYT124000196	PYTHON III	PYT831012980	PYT831012981	867661	50183	04/22/2024	12 MONTHS	04/22/2025	JOHN R GRAY IV

Based upon my education, training, and experience and my knowledge of the SMD's listed above, it is my opinion that each of these electronic pieces of equipment is so designed and constructed as to accurately employ the Doppler effect 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 or, in the case of the laser SMDs, 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: John R. Gray

Place: Redmond, WA

Exhibit "A" derives information from the certificate management database. See Exhibit "A" for details about individual SMD certifications.

State of Washington County of King

Signed or attested before me on

09,06,24 by John R. Gray

I have satisfactory evidence that the person described in this document:
(a) is personally known to me; OR (b) is identified upon oath oraffirmation

of credible witness personally know to me; OR (c) is identified on the basis of indentification documents.

William Quoc Ang

Notary Public in and for the State of Washington,

Residing in Seattle, WA

William 2

My appointment expires January 29, 2026

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