DEPARTMENT OF HIGHWAY SAFETY AND MOTOR VEHICLES

DIVISION OF FLORIDA HIGHWAY PATROL

LASER SPEED MEASURING DEVICE CERTIFICATION

THIS IS TO CERTIFY THAT THE UNIT USED TO MEASURE MOTOR VEHICLE SPEEDS. DESCRIBED AS:

MANUFACTURER: MPH INDUSTRIES, INC SERIAL NUMBER: 10020

MODEL NUMBER: Sure Shot

HAS THIS DATE October 18, 2017 BEEN TESTED AS DESCRIBED IN THE FLORIDA ADMINISTRATIVE CODE. CHAPTER 15B-2. SPEED MEASURING DEVICES. RULE 15B-2.016 AND IS FOUND TO BE WORKING PROPERLY.

AVERAGE SPEED CALCULATOR INSTALLED? Y OR (N)

TIME BASE WAS: CHECKED / NOT CHECKED (circle one)

+
-_____ MINUTES _____ SECONDS

ACTUAL **DISTANCE** MEASUREMENT TEST

DISTANCE	READS
100 FT / 200 FT	100 FT / 200 FT

WAVELENGTH SPECIFICATION TEST

SPECIFIED WAVELENGTH	ACTUAL WAVELENGTH
904.00 nm	903.29 nm

POWER OUTPUT TEST (TRANS) 92.70 MICROWATTS

PULSE WIDTH 26.30 Ns SPECIFIED 7100 Ns

PULSE REPETITION RATE 199.9992 Hz

MANUFACTURERS SPECIFICATIONS RANGE 199.0000 TO 201.0000 Hz

DOUBLE PULSE TEST PASS X FAIL _____

INTERMITTENT LASER PULSE TEST PASS X FAIL _____

RADAR / LIDAR VERIFICATION TEST (± I MPH) PASS X FAIL _____

LOW VOLTAGE SUPPLY ALERT PASS X FAIL _____

RADIO FREQUENCY INTERFERENCE PASS X FAIL _____

SIGHT ALIGNMENT TEST PASS X FAIL _____

BEAM WIDTH TEST X _____

PROFESSIONAL ENGINEER, P.E. / ELECTRONIC TECHNICIAN

NAME: Stephen W. Logue

SIGNATURE: _____

CERTIFICATION ISSUED BY:
Federal Communications Commission
General Radiotelephone Operator

LICENSE #- PG-GB-062930

ADDRESS: Enforcement Electronics Service, Inc.
3705 Century Boulevard Suite 2
Lakeland, Florida 33811
(863) 646-7009

Witness Signature _____

Witness's Name Stacy Logue

Witness's Title or Rank Administrative Assistant

HSMV 61071 (Rev. 05/12) Rule 15B-2.016, FAC

ENFORCEMENT ELECTRONICS SERVICE, INC.
(800) 723-2779 / (863) 644-3325-FAX
LASER SERVICE REPORT

RECEIVED FROM: MPH DATE: 10/18/17

VIA: UPS

MODEL: Sure Shot INVENTORY #: _____

SERIAL NUMBER: 10020

ACTUAL DISTANCE MEASUREMENT TEST DISTANCE : 100/200 FT READS: 100 200 FT

WAVELENGTH SPECIFICATION TEST SPECIFIED 904.0 nm ACTUAL 903.29 nm

POWER OUTPUT TEST 92.7 MICROWATTS PULSE WIDTH TEST 26.3 Ns SPECIFIED 1/100 NS

PULSE REPITITION RATE 199.9992 Hz

MFG. SPEC RANGE 199.0000 Hz TO 201.0000 Hz

DOUBLE PULSE TEST	PASS ✓	FAIL ___
INTERMITTENT LASER PULSE TEST	PASS ✓	FAIL ___
RADAR/LIDAR VERIFICATION TEST (+/-1 MPH)	PASS ✓	FAIL ___
LOW VOLTAGE SUPPLY ALERT	PASS ✓	FAIL ___
RFI TEST	PASS ✓	FAIL ___
SIGHT ALIGNMENT TEST	PASS ✓	FAIL ___
BEAM WIDTH TEST	PASS ✓	FAIL ___

AVERAGE SPEED CALCULATOR INSTALLED? Y OR (N)
TIME BASE WAS CHECKED / NOT CHECKED (CIRCLE ONE)
+ / - _____ MINUTE _____ SECONDS DIVIATION
FROM STANDARD IN 24 HOURS

ACCESSORIES INCLUDED:

CASE	1	BATTERY HANDLE	___	A/C ADAPTOR	
LANYARD	___	CORDED HANDLE	___	BATTERIES	8
MANUAL	1	CHARGING CABLE	___		
SHOULDER STOCK	___	CHARGER	1		

OTHER ACCESSORIES: _____

RECERTIFICATION ___ REPAIR ___

PROBELM: FLA. CRITERIA TEST

REPAIR: _____

RECERT DATE: 10/18/17 REPAIR DATE: _____ TECH: SWL

REPAIR APPROVED BY: _____ DATE: _____

RECEIVED BY: _____ DATE: _____

SHIP DATE: _____ TRK#: _____

Laser Speed Measurement Device Criteria Check.

Manufacturer: MPH

Model: Shure Shot

Serial # : 10220

15B-2.014 Minimum Design Criteria For Laser Speed Measurement Devices

(1) Manufacturers of laser speed measurement devices (LSMD) shall submit a report to the department by an independent testing laboratory certifying that each model meets the following minimum design criteria:

Meets Criteria	Does Not Meet Criteria	
✓		(a) The device shall measure transmitted and received light amplified by stimulated emission of radiation, otherwise known as LASER.
✓		(b) The device determines the speed of vehicles by the pulse - echo method using the time of fight of a series of pulses of laser light
✓		(c) The device shall use solid state digital techniques for distance and speed calculations.
✓		(d) The device shall comply with the limits for a class A digital device as defined in 47 C.F.R. 15.3 (h), which is incorporated by reference.
✓		(e) The device is certified as a class I (one) eye safe device according to the criteria established by the U.S. Department of Health and Human Services, Center for Devices and Radiological Health, Food and Drug Administration, Rockville, Maryland 20582,(21 C.F.R. 1040) which is incorporated by reference
✓		(f) The device shall only transmit light pulses when a finger operated trigger is pressed. When this trigger is released the device shall cease to transmit. The devices shall not have any method to lock the trigger in the transmit mode.
✓		(g) The device shall be capable of measuring target vehicle speeds over the speed range of 5 mph to 100 mph, with an acccuracy of plus or minus 1 mph over this range.

✓ _____ (h) The device shall be capable of measuring target vehicle speeds over the speed range of 5 mph to 90 mph, with an accuracy of plus or minus 1 mph over this range.

✓ _____ (i) The device shall measure distances with an accuracy of plus or minus I foot, between 50 and 100 feet, and display distances in feet.

✓ _____ (j) The device shall be capable of being converted to metric units for distance and speed by the manufacturer.

✓ _____ (k) The device shall be weather resistant.

✓ _____ (l) The device shall have a self test mode, which will operate automatically when the device is turned on, and when the self test is initiated by the operator. Self test shall verify that the computing and timing circuits are operating correctly, and illuminating all light emitting indicators so that the condition can be verified by the operator.

✓ _____ (m) The devices shall truncate decimal values of the target speed display to produce whole number values.

✓ _____ (n) The device shall be capable of measuring both approaching and receding vehicles, and display a visual indication that differentiated direction.

✓ _____ (o) The device shall provide an audio tone indicating when a target vehicle has been acquired.

✓ _____ (p) The device shall meet all the minimum performance specifications over the power supply voltage range of 10.8 volts to 16.3 volts, with a normal power supply voltage being 13.6 volts. The device shall contain the following features related to the power supply circuitry:

✓ _____ 1. A power supply no/off switch.

✓ _____ 2. A visual indicator to allow the operator to determine that electrical energy is being supplied to the device.

✓ _____ 3. A low voltage indicator that alerts the operator either visually or audibly of low voltage conditions, and automatically prevents operation

		audibly of low voltage conditions, and automatically prevents operation.
✓		4. Internal circuitry that protects against accidental reversal of power supply polarity.
✓		5. An in-line fuse of equivalent mounted between the power supply and the device to prevent power surges in excess of 16.3 volts.
✓		(q) The device shall detect spurious readings due to radio frequency interference an inhibit any speed display.
✓		(r) The device shaft be permanently marked with the functions and setting of all switches, controls, and displays. It shall not be possible to set the controls to a functional mode of operation that is not marked of operation that is not marked of identified.
✓		(s) The manufacturer shall permanently mark each device with the name of the LSMD model and the serial number for the specific LSMD.
✓		(t) The manufacturer shall provide the procedures that verify the accurate alignment of the sighting element.

Specific Authority 316.1905, F.S. Law Implemented 316.1905, 316.1906, F.S. New.

Test Performed By Stephen W. Logue

Title TECHNICIAN

FCC License # PG-GB-062930

Verified By Michael A Wall

Title Technician

FCC License # PG-0000481S

Time 1:00 P.M

Date 10-18-17

Certificate of Approval

STATE OF FLORIDA
DEPARTMENT OF HIGHWAY SAFETY AND MOTOR VEHICLES
TALLAHASSEE, FLORIDA

THIS IS TO CERTIFY PURSUANT TO RULE 15B-2.007(1) AND 15B-2.008 FLORIDA ADMINISTRATION CODE THAT THE STATE OF FLORIDA, DEPARTMENT OF HIGHWAY SAFETY AND MOTOR VEHICLES HAS ON FILE THE FOLLOWING INFORMATION PERTAINING TO A RADAR SPEED MEASURING DEVICE (RSMD) OR LASER SPEED MEASURING DEVICE (LSMD):

1. _____ (CHECK FOR RSMD) A CERTIFICATE OF TYPE ACCEPTANCE BY THE FEDERAL COMMUNICATIONS COMMISSION (FCC) AND THE DEVICE APPEARS ON THE CURRENT INTERNATIONAL ASSOCIATION OF CHIEFS OF POLICE (IACP) CONSUMER PRODUCT LIST FOR RADAR SPEED CRITERIA OF RULE 15B-2.0082 FLORIDA ADMINISTRATIVE CODE.

2. X (CHECK FOR LSMD) A REPORT FROM AN INDEPENDENT TESTING LABORATORY CERTIFYING THAT A LASER SPEED MEASURING DEVICE MEETS THE MINIMUM DESIGN CRITERIA OF RULE 15B-2.014 FLORIDA ADMINISTRATIVE CODE.

Sure Shot

(TYPE OF EQUIPMENT OR ACCESSORIES)

CERTIFIED ON January 4, 2018

MANUFACTURED BY
MPH Industries

316 E 9th Street

Owensboro, KY 42303

C J Thomas	Lieutenant
Certifying Authority (signature)	Title
Herbert A. Brown	January 4, 2018
Certifying Authority (printed name)	Date

HSMV 60013 (7/03)