

# Onick LS320 Handheld Laser Speedometer



## USER MANUAL

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### 1. Product introduction:

This device is a portable unibody laser speed gun, which is capable of accurately measuring the real-time speed of a vehicle while at the same time measuring its distance.

**\*Feature: Convenient, high-precision, waterproof and durable.**

**\*Multiple modes selection: speed mode, distance mode, lock mode.**

**\* Long life lithium battery.**

### 2. Product parameters

	Item name	
1	Max distance	1200m
2	Speed range	10~320 km/h
3	Speed accuracy	2 km/h
4	Distance Accuracy	0.3m
5	Speed display resolution	1km/hour
6	Distance accuracy	0.1m
7	Power supply	7.4V 5600MAH lithium batteries
8	Measuring time	0.33~0.66 S
9	Protection level	NEMA 4 / IP 55
10	Operating temperature	-20° C to +60° C (-4°F to 140°F)

### 3. Product view description



### 4. The initial screen

Firstly, Install the battery handle into the bottom of the device, press the PWR button one time to start the device, it will enter the standby mode, and the backlight is lighting up, see below,

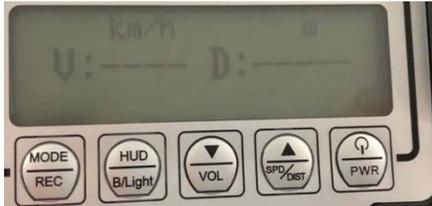


Press the PWR button again to turn it off.

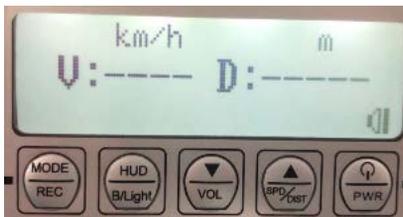
## 5. Backlight switch

Press and hold on the HUD button for 3 seconds, the backlight will be shut down. Press the HUD button for another 3 seconds ,it will restore the backlight status.

PIC 1: Backlight in shutting down status



PIC 2: Backlight in lighting up status



## 6. Measure mode:

(This item is a description for the menu feature,don't need testing)

Press the PWR button to power on, press and hold on the MODE button for 3 seconds to enter the menu settings, press the ▲ button to enter the different modes:

### 6.1. Speed & Distance (PIC1):

The running speed and distance of the vehicle (default mode)

### 6.2. Speed (PIC 2):

The running speed of the vehicle

### 6.3. Distance (PIC 3): Distance

### 6.4. Spd & Dist Hold (PIC 4):

Lock the Speed and Distance

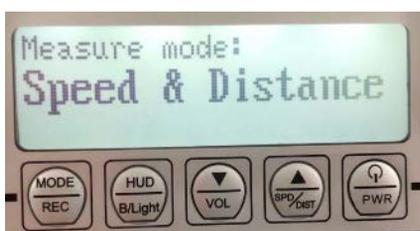
### 6.5. Speed Hold (PIC 5):

Lock the running Speed of the Vehicle

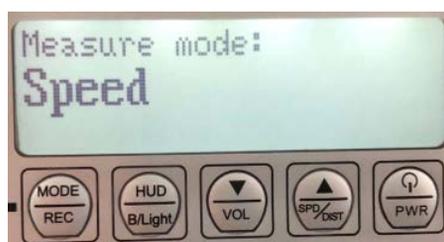
### 6.6. Distance Hold (PIC 6):

Lock the Distance

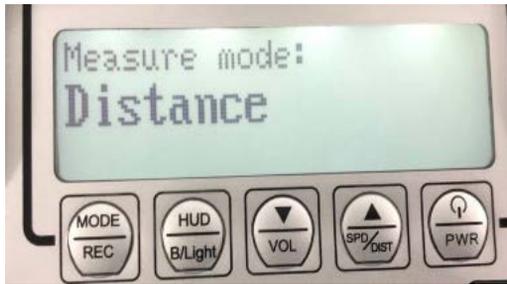
PIC1



PIC2



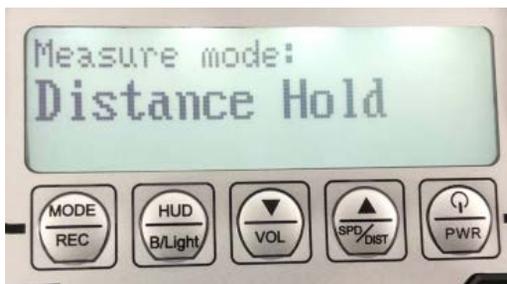
PIC3



PIC4



PIC5

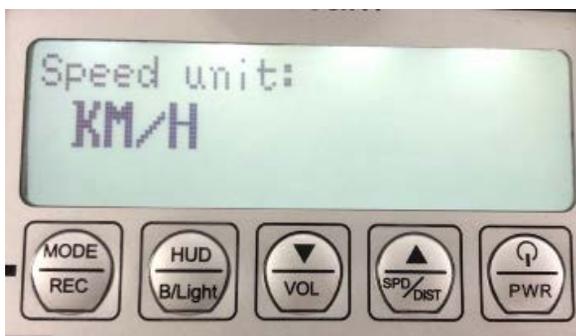


PIC6



### 7. Speed unit

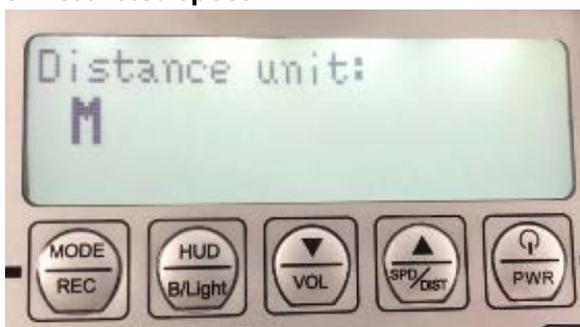
Press the ▲ button to switch the speed unit ,you can switch into the KM/H, M/H, M/S, Default at KM/H.



### 8. Distance unit

Press the ▲ button to switch the Distance unit ,you can switch into the M,Y,Default at M.

### 9. Restricted speed



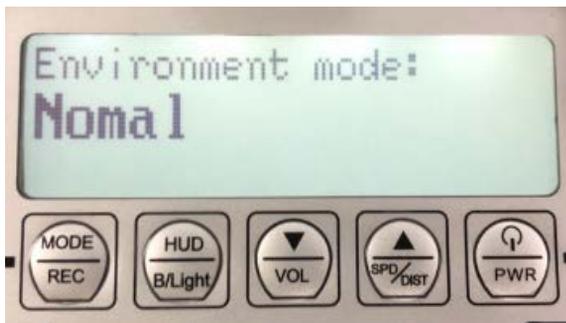
Press the ▼/▲ button to set the speed limit value,you can set it from 15KM/H to

250KM/H.



### 10. Environment mode

Press the ▲ button to set the Normal,bad weather ,Default at Normal.



### 11.How to switch the Speed mode /distance mode

In the default operation interface, Press the▲button to switch the different modes, then aim the target to test,you will get the distance and the speed.

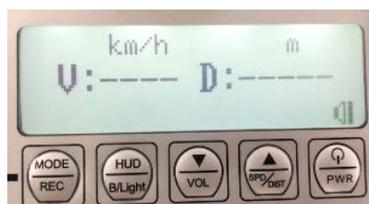
#### 11.1 V:---- D:----- speed and distance mode (PIC1)

In speed and distance mode, aim at the target to get the speed and distance, the LCD and screen will display the running speed and distance data .

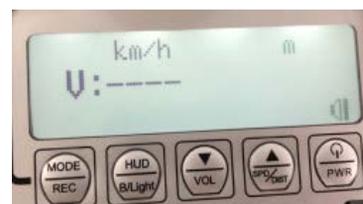
#### 11.2 V:---- speed mode (PIC 2)

Directly press the▲button to switch into the speed mode, aim the target to test, the LCD and screen will display the running speed data.

PIC 1



PIC 2



#### 11.3 D:----- distance mode (PIC 3)

Directly press the ▲button to switch into the distance mode (D), aiming at the target to

test, the LCD and screen will display the distance data.

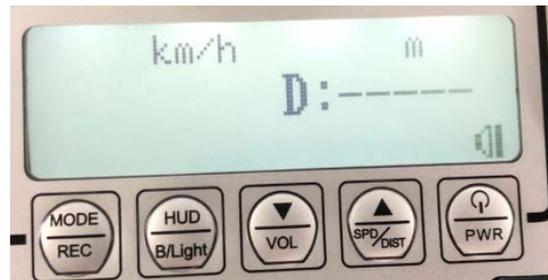
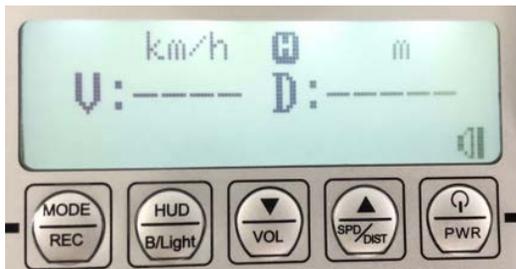
#### 11.4 V:---- D:---- (H) speed and distance lock mode (PIC 4)

Directly press the▲button to switch into the speed mode and distance lock mode (H), aiming at the target to test, the LCD and screen will display the locked speed and distance data.

**Note:** When in lock status,if not release the trigger button ,it will not measure, if release the trigger button,the date will change),the LCD and screen will display the locked data.

PIC 3

PIC 4



#### 11.5 V:---- (H) speed lock mode (PIC 5)

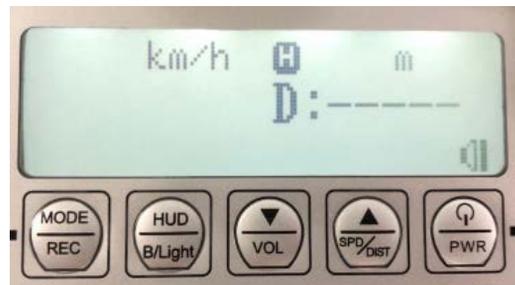
Directly press the▲button to switch into speed lock mode (H), aiming at target to test,the LCD and screen will display the speed data.

#### 11.6 D:---- (H) distance lock mode (PIC 6)

Directly press the▲button to switch into the distance lock mode (H), target test, the LCD and screen will display the distance data .

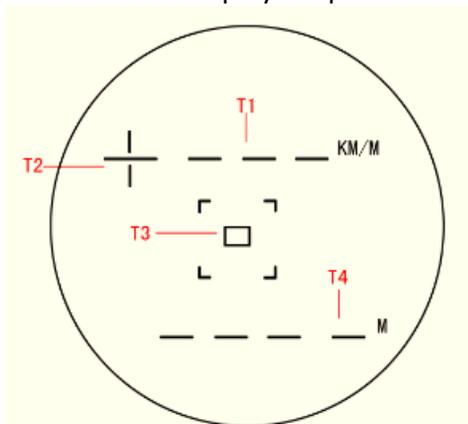
PIC 5

PIC6



## 12. Telescope sighting system

The aiming system has a fully transparent LCD display with cursor-line of sight and simultaneous display of speed and distance.



T1 : Display the current measured speed

T2 : + / - is the driving direction of the vehicle , + for coming, - for going.

T3 : Aiming at the license plate through the central aiming rectangle

T4 : Display the current measured distance

### 13.Operation panel description:

#### 13.1. MODE/REC:

Enter the main menu,scan the storing data(you can press the mode button firstly,then press the ▲▼ button to check the data,it can store 90 group of the data )

\*Switch the different modes.

#### 13.2. HUD/B/Light:

Backlight on/ off, automatic test Normal , Set Date ,year/month/day adjustment, manual printing function.

#### 13.3. VOL/▼:

Adjust the Volume , the speed limit penalty , Set Date reduction , Set Time reduction

#### 13.4. SPD/DIST/▲:

Switch the modes,adjust the Speed Limit , Set Date , Set Time .

#### 13.5. PWR:

Power on /off button.



### 14. Component Description

#### 14.1 Battery handle

The battery handle is internally equipped with a 7.4V / 5600MAH lithium-ion battery pack, and has a short-circuit and overcurrent protection function. The handle can provide 5-7 hours for normal use.

#### 14.2 Battery Charging

caveat! When charging, be sure to follow the instructions below:

When charging, use the supplied charger and charging base. Do not use any other charging power source.

The power input interface of the battery base cannot be directly connected to 12V or other power sources.

Note: Failing to do so may cause the battery to overheat and rupture or burn, causing great harm to people.

Do not place the battery near a fire or exposure to sunlight while the battery is charging. When the battery gets hot, the built-in safety equipment is activated to prevent further battery charging. Heating the battery can damage the safety device, causing additional

heat, cracking or igniting the battery.

Note: Lithium-ion batteries are unstable (potentially dangerous) at extremely low and high temperatures

Charging temperature range: 0° C to 45°. Charging temperatures outside this range may cause the battery to become hot or cracked, or probably damage the battery's performance and reduce the expected battery life.

When the charger is normally charged, the charger is red, and when the charger is green, the battery is sufficient.

### **14.3 Battery Handle Installation**

Align the battery handle with the bottom of the instrument, press it flatly, and then push it into place. Tighten the screws on the battery handle.

### **14.4 Removing the battery handle**

Loosen the screws on the battery handle. Pull the battery handle out of the direction of the display, you can remove the battery handle.

## **15. Important Safety and Product Information**

### **Warnings:**

Use of the product against the sun is strictly forbidden

Use of the product against the sun will be detrimental to your eyes.

**Improper use of batteries will cause the batteries to heat, crack and even burn, which causes severe damage.**

### **Must follow safety rules as below:**

Do not throw batteries to fire or high-heat stuff.

Do not reversely place the negative and positive polarities.

Do not use metal things like wires to connect the positive and negative polarities.

Do not mix or store batteries with hairpin, necklace or other metal stuff.

Do not puncture the batteries with nails or use the hammer to crush batteries, the feet to step on batteries or any intense hit or shake.

Do not directly solder batteries.

Do not expose batteries directly in water or salt water. Please keep batteries dry.

### **Do not dismantle or modify batteries.**

The batteries have safety protect equipment, which, if damaged, will cause batteries to heat, crack or burn.

Do not put batteries close to fire or other high-heat occasions.

Do not directly put or store Lithium batteries under the sun. If the batteries have to be put inside the vehicle in hot weather, please put the batteries in cool place. Do not direct expose the batteries under the sun. Direct exposure and high temperature will cause batteries to heat, crack and burn. If batteries are used improperly like that, it will reduce the durability of the equipment and damage of performance.

### **Except professionals, do not use any equipment to dismantle batteries**

If original batteries are used on other devices, battery life will be damaged and reduced. If the device causes abnormal current, it will cause batteries to overheat, crack and burn, thus causing serious damage.

**Warnings:**

**Do not stare at laser beam for a long time.**

This product is designed in accordance with human eyes safety laser Class 1. It means that in normal conditions human eyes will not be damaged by directly looking at laser. But for any laser equipment, proper protective measures are to be grasped in operation. We suggest that you avoid staring at lasing lens when laser works. This product will cause more harm to eyes when used with other optical equipment.

**Strictly forbidden to target product at the sun**

When exposing lens under the sun, even for a very short time, it will cause permanent damage to the lasing system of laser.

**Do not operate product in extreme temperature**

Specified temperature ranger for product components is  $-10^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$  ( $14^{\circ}\text{F}$  to  $140^{\circ}\text{F}$ ). Please operate the device in that temperature range.

**Li-ion battery will become unstable (potential danger) in high or low temperatures.**

Charging temperature range  $0^{\circ}\text{C}$  to  $+45^{\circ}\text{C}$  ( $+32^{\circ}\text{F}$  to  $+113^{\circ}\text{F}$ )

Storage temperature range  $-20^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$  ( $-4^{\circ}\text{F}$  to  $+140^{\circ}\text{F}$ )

When using, charging or storing batteries, in event of the following conditions, please terminate use of batteries immediately.

- . Batteries smell bad
- . Batteries feel hot
- . Batteries color changes
- . Batteries shape or any other cosmetics abnormal

In event of the above conditions please contact local distributors.

Please do not put batteries in microwave oven, high-pressure container or induction cookers.

If batteries leak and the liquids contact eyes, please do not rub your eyes. Please clean eyes with much clear water and seek doctor's advice immediately.

**Please note: if battery liquid remains in eyes, it will do harm to your eyes.**