



## Active day and night

Design and Produce in UAE(Manufactory)



**Yours Speed Radar  
with Simple Face & Sign  
with  
THANK YOU  
&  
SLOW DOWN**

Model Number: SSM60208  
MTP Brand



**MTP Traffic Sign LLC**

Tel: +971 6 55 2 99 15 Fax: +971 6 55 2 99 36 Mob: +971 56 78 56 255

P.O.Box: 9401, Emirates Industrial City– Sharjah - UAE

Email: [sales@mtpTraffic.com](mailto:sales@mtpTraffic.com)

[www.mtpTraffic.com](http://www.mtpTraffic.com)



## Technical Specification

<b>Dimension</b>	Size : 60*208*15.5cm (with sign)
<b>Weight</b>	45Kg
<b>Body Material</b>	Aluminum Black & White Color Electrostatic Powder Coated (MTP Brand)
<b>Solar Power</b>	50 Watts, Life time more than 20 years
<b>Battery</b>	Internal 12 volt, 17 Ah, sealed lead acid
<b>Red Speed Display</b>	Upper with 2 digit 7 segment LED Without any glass sheet (MTP Brand)
<b>Green Speed Display</b>	Lower with 2 digit 7 segment LED Without any glass sheet (MTP Brand)
<b>LED Quantity</b>	196pcs Red + 55 pcs face + message 196pcs Green + 60 pcs face + message
<b>LED Life</b>	More than 100,000 Hours
<b>Light Luminous</b>	8000mcd
<b>Light Intensity</b>	Automatic regulation light intensity in day and night(day intensity 5 times night)
<b>Radar</b>	CW Doppler device operating in the K-Band (24GHz) (MTP Brand)
<b>Speed Detection Rang</b>	1km/h – 99km/h
<b>Detection Distance</b>	Over than 200m
<b>Response Time</b>	≤5ms
<b>Working Time After Full Charge In Cloudy Weather</b>	8 days
<b>Visible Distance</b>	More than 1000m

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<b>Angle</b>	150 Degree
<b>Operating Temperature</b>	-20° C to 75° C
<b>Reflective Sheet</b>	3M
<b>Violation Recorder</b>	Ability to Record Violation (Optional)

## Mechanical Specification(MTP Brand)



- Body material:** Aluminum sheet 1.2mm
- Frame:** Aluminum profile with special design
- Frame size:** 2\*15.5\*0.2cm
- Color quality:** Electrostatic Powder Coating
- Color:** Black Matte
- Front sheet material:** Composite with special finishing to preventing sky light reflection
- Front sheet Thickness:** 4mm
- Installation stand:** Special U Chanel as UAE Traffic Sign standard

## LED



LED's are identified very well and amount of their desired life is 100.000 hours in lawful range for traffic light and traffic signals and its light intensity is 8000mcd. Total numbers of LEDs in one device are equal to 507pcs for Seven Segment and Emoji face plus LED for messages.

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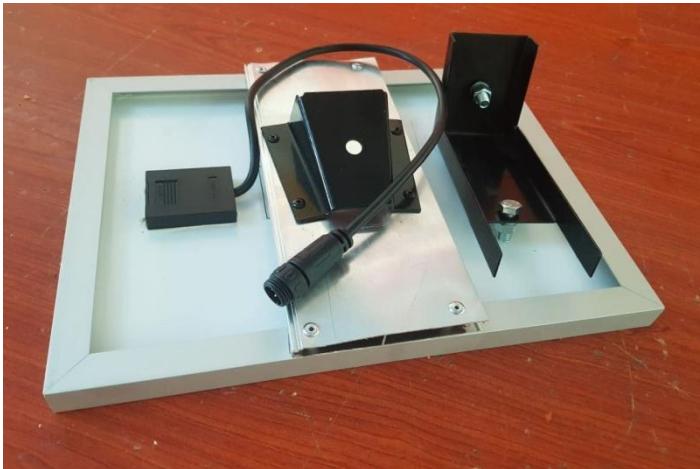


## Battery



Sealed Lead Acid batteries of 1\*12v\*17Ah, having desired life of 5 years.

## Solar Panel



### SILICON SOLAR PV MODULE

Model	SA-50P
Pm	50watt
Vmp	18V
Imp	2.5A
Voc	21. 24V
Isc	3.3A
Dimension	50*60*3cm
Max System Voltage	1000V
Test Condition	AM1.5 1000W/m <sup>2</sup> 25°C

Solar panel is 50W, 18v 2.5A, with the efficiency of %16

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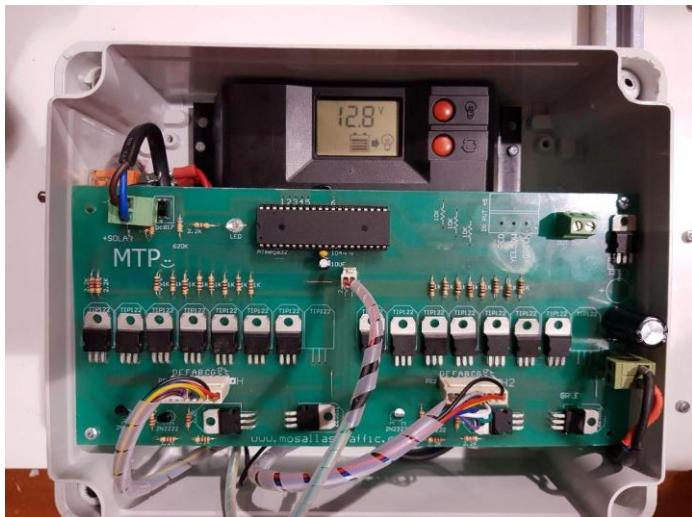
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# Intelligent Microcontroller System(MTP Brand)



- Processing data from Radar (and Camera optional),
- Synchronizing Radar with Camera as optional,
- Taking violator vehicle picture on specific area as optional,
- Arranging Time, Date, Location of violation as optional,
- Sending picture and data to Control Room Center through WIFI or simcard internet as optional,
- Measuring voltage of battery, solar panel, charge current and related measuring,
- Light Regulation and optimization of consumption, according to charge current (environmental light),
- Neutralizing of change effects of battery voltage in light illumination,
- Preventing of battery over charge and undesired discharge of battery and neutralizing effect of heat,
- Using modulation of PWM for adjustment of light illumination,
- Flexible performance according to client orders (Software and hardware),
- Working time with full charge is almost 4 days, and 8 days on cloudy climate,
- Charging time for empty battery is 18 hours in case of performing operation, and 14 hours without any operation,
- Maximum light intensity (day) vs. its minimum (night) is 5 to 1 and it is changeable as required,

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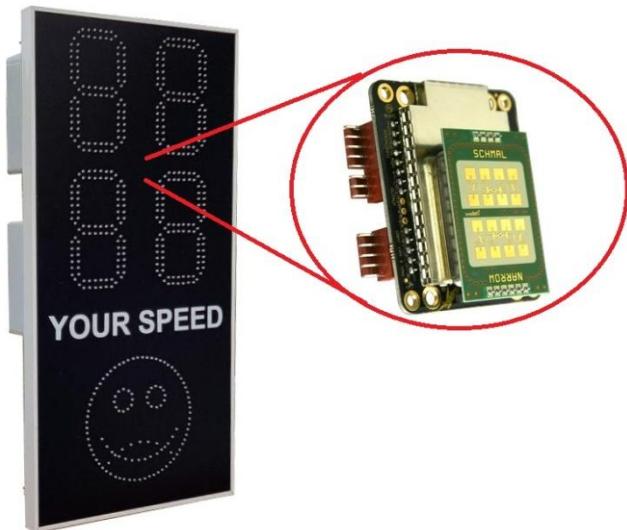
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## Radar(MTP Brand)



**CW Doppler device operating in the K-Band (24GHz)**  
(MTP Brand)

## Other Spare Parts



**6 inch hose clamp**



**4 inch Stainless Steel Clamp**



## Solar Panel Connection

Solar panel will be fixed on the pole with black holder and Nut Bolt which is attached to sign bard.

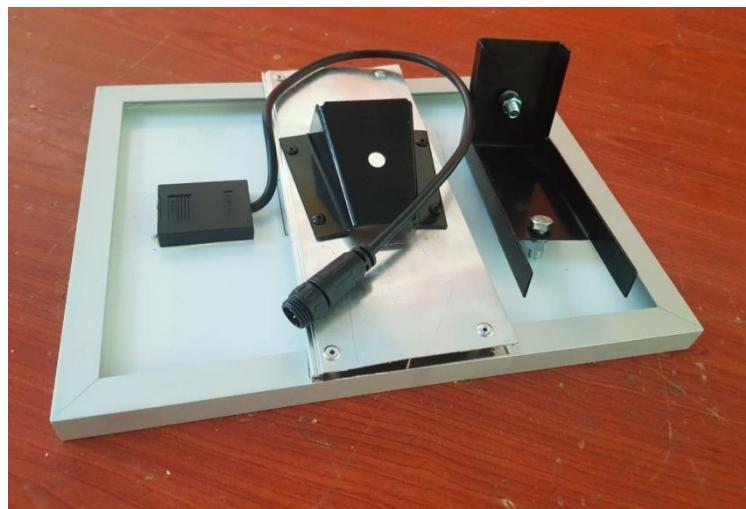
After installation sign board and Solar Panel, adjust solar panel face direction towards south and make tight its nut.

If south side is prevented by some building or tree's leaves, solar panel face should be adjusted to East or West (open sky area).

Each solar panel has a cable with waterproof socket (male). After installation solar panel on the post, open cabinet of the sign board and connect positive(Red) wire from control panel to battery socket,

Then connect solar panel male socket to female socket which is coming from sign board.

**Note:** if you connect solar panel cable to the sign board before connecting Battery wire, system can't work properly, so need to remove solar panel socket and battery wire from its socket for few seconds, then first connect battery wire to its socket and after it connect solar panel waterproof socket.



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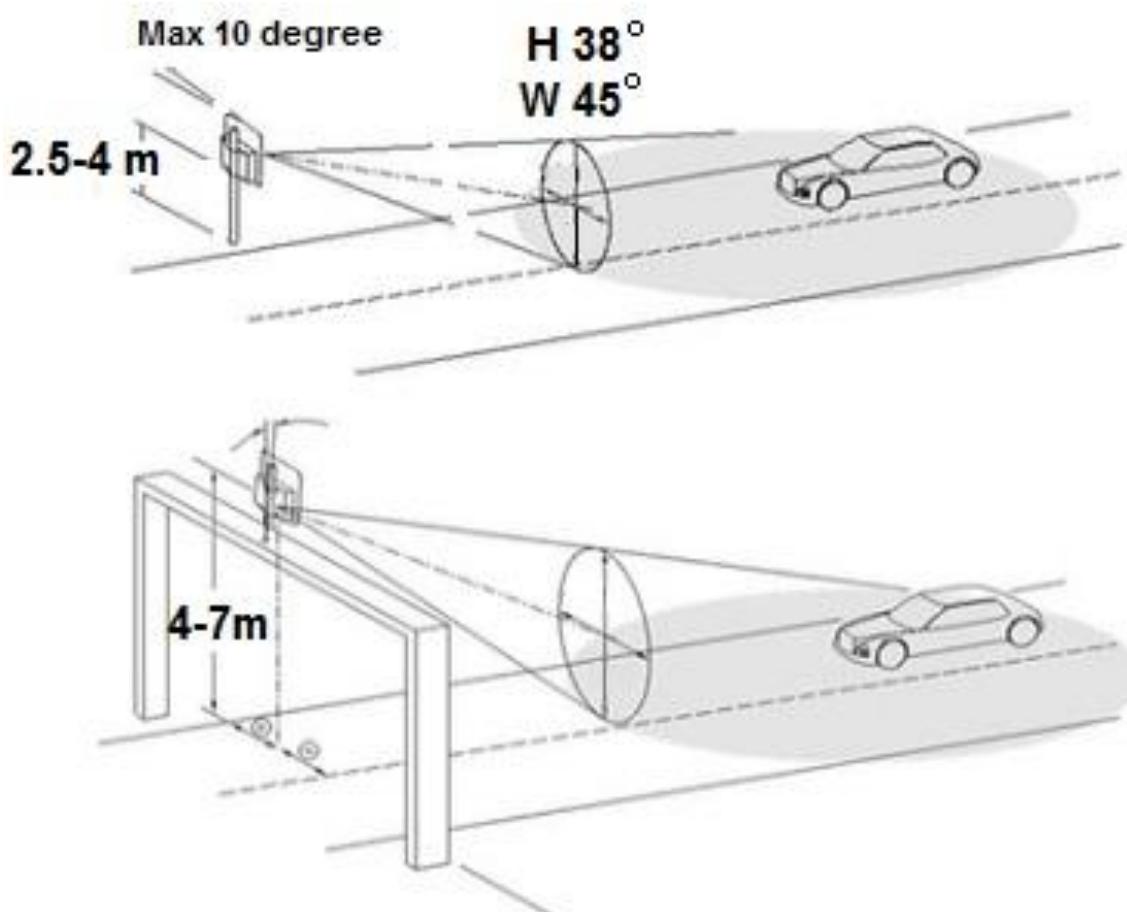


## Note

Usually Your Speed Sign be fixed on the side of road, left or right.

Direction of the radar towards of vehicles and tilt angle of it not more than 10 degrees.

If it is fixed above of the road, it needed a vertical angle alignment holder, and then can adjust head of radar towards required place which is needed to detect vehicles speed.



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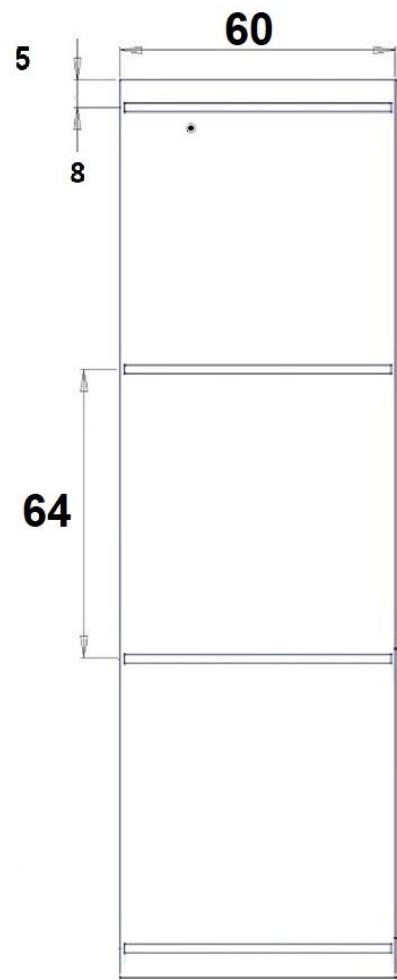
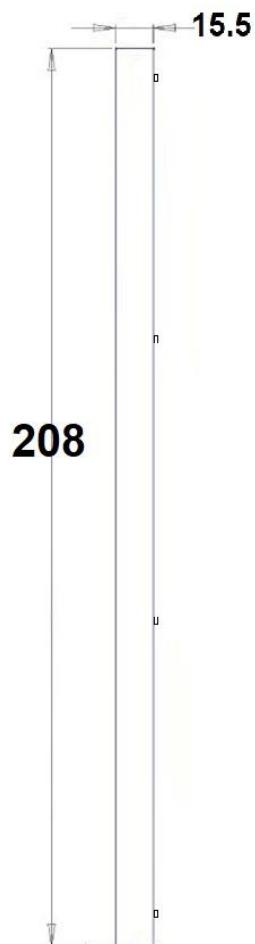
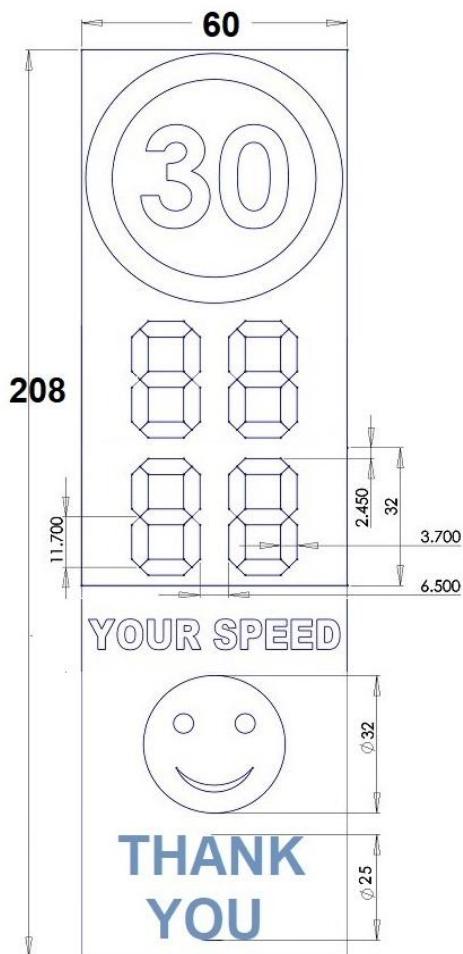
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## Dimension



# Installation Guide

## Installation:

### Five Steps to Installation:

- 1- Fixing Sign Board on the Pole with U clamps,
- 2- Fixing Solar panel on top of pole with hose clips and adjust it on the **South direction**,
- 3- Open Cabinet and connect Positive(Red) wire to Battery positive socket,
- 4- Connect Solar cable waterproof Socket (male) to the sign board Socket(female),  
(don't connect solar socket before connecting battery wire),
- 5- Adjust speed limit by pushing the button which is embedded inside of cabinet on the panel, it will increase with 5km steps, green light shows speed limit after each push,

**Note:** If want keep sign on the store, please disconnect Positive wire from Battery Socket,

