



# MTP Traffic Sign



## Active day and night

Design and Produce by MTP (Manufactory)



### Radar Yours Speed Sign

- With Digital Face
- With Messages

Thank You  
&  
Slow Down

- Arabic and English  
(Periodic)

- With Flash

Model Number: SDMF70189  
(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 : 70*189*15.5cm  |
| <b>Weight</b>                         | 45Kg  |
| <b>Body Material</b>                  | Aluminum black and white color<br>Electrostatic powder coated<br>(MTP Brand)                              |
| <b>Battery</b>                        | Internal 12 volt, 51 Ah, sealed lead acid   |
| <b>Solar Power</b>                    | 100 Watts, Life time more than 20 years   |
| <b>Display Model</b>                  | 2 digit with 7 segment LED board<br>+ Emoji Face<br>+ Arabic and English Message periodic<br>(MTP Brand)  |
| <b>LED Quantity</b>                   | 196pcs Red<br>+ 196pcs Green<br>+ 2048pcs SMD two color emoji<br>+ 1024pcs SMD Arabic and English message |
| <b>Emoji Face Display</b>             | 64*32 pixel SMD two color<br>(MTP Brand)  |
| <b>Message Display</b>                | 64*16 pixel SMD two color<br>Arabic and English message<br>(MTP Brand)                                    |
| <b>LED Life</b>                       | More than 100,000 Hours   |
| <b>Light luminous</b>                 | 8000mcd   |
| <b>Radar</b>                          | CW Doppler device operating in the K-Band<br>(24GHz)<br>(MTP Brand)                                       |
| <b>Speed Detection Rang</b>           | 1km/h – 99km/h  |
| <b>Detection Distance</b>             | ≤250m   |
| <b>Response Time</b>                  | ≤5ms  |
| <b>Working time after full charge</b> | 4 days  |

### 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)



|                  |                |
|------------------|----------------|
| Visible Distance | More than 100m |
| Angle            | 100 Degree     |
| Reflective sheet | 3M             |

## Flash light(MTP Brand)



Flash Light has 4 pcs high power LEDs,  
Power of 3 watt for each LED,  
Voltage for LED light is 12 volt DC.  
Light color is Day Light.  
Light is connected to LED Driver on the controller unit.

### 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)



## 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

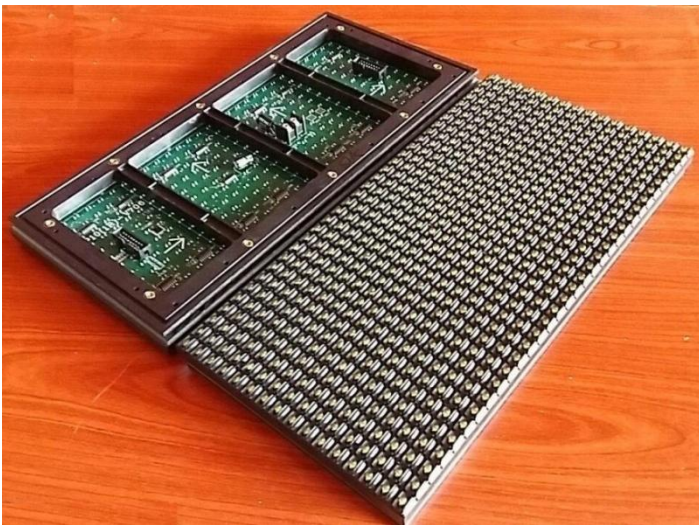
**196pcs Red**

**+ 196pcs Green**

**+ 2048pcs two color emoji face**

**+ 1024 Arabic and English message**

## Face and message Display Module(MTP Brand)



LED's Module is made by fiberglass electronic printed board with the size of 16\*32 cm has 512 pixels, Distance between each pixel is 10mm.

Its rear is covered by green isolated coating and front with black isolation coating in for prevent of any water and dust.

### **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)





## Battery



Sealed Lead Acid batteries of 3x12v 17Ah with total 51Ah, having desired life of 5 years.

## Inverter



We used DC to DC converter for preparing of 5 volt from 12 volt to supplying LED display modules. This is manufactured by Mean well company.

### **MTP Traffic Sign LLC**

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

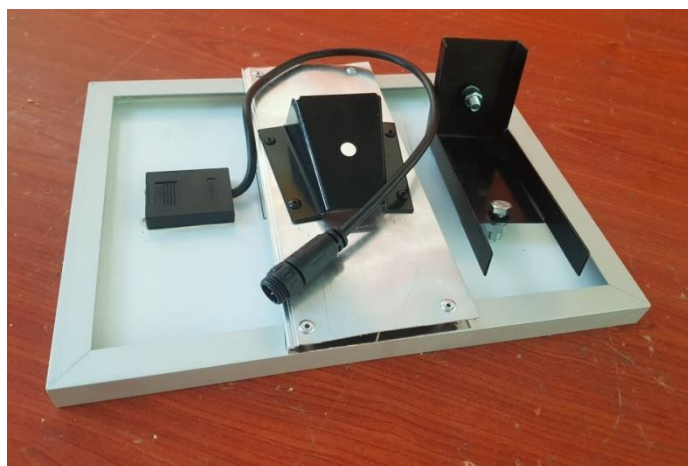
P.O.Box: 9401, Emirates Industrial City- Sharjah - UAE

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

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



## Solar Panel



### SILICON SOLAR PV MODULE

|                    |                                 |
|--------------------|---------------------------------|
| Model              | SA-10P                          |
| Pm                 | 100watt                         |
| Vmp                | 18V                             |
| Imp                | 5.6A                            |
| Voc                | 21.24V                          |
| Isc                | 5.9A                            |
| Dimension          | 100*60*3.5cm                    |
| Max System Voltage | 1000V                           |
| Test Condition     | AM1.5 1000W/m <sup>2</sup> 25°C |

Solar panel are 1 pcs 100W, 18v 5.5A, with the efficiency of %16.

## 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

### MTP Traffic Sign LLC

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

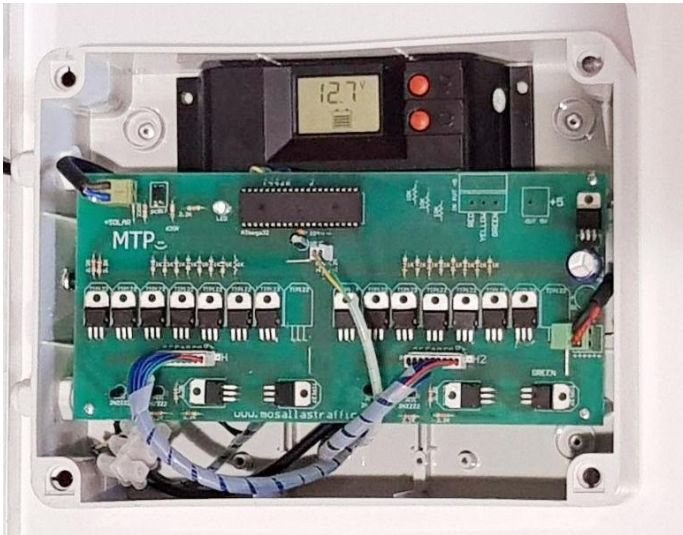
P.O.Box: 9401, Emirates Industrial City- Sharjah - UAE

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

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



# Intelligent Microcontroller System(MTP Brand)



- Measuring voltage of battery, charge current and related measuring.
- Light Regulation and optimization of consumption, according to charge current (environmental light) and battery voltage.
- Neutralizing of change effects of battery voltage in light illumination of flashing light.
- Preventing of battery over charge and undesired de-charge of battery and neutralizing effect of heat.
- Using modulation of PWM for changing light illumination.
- Probability of performing all changes, according to orders of buyer, (Software changes).
- Working time, without any charge and with full battery is almost 4 days.
- 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,

## 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

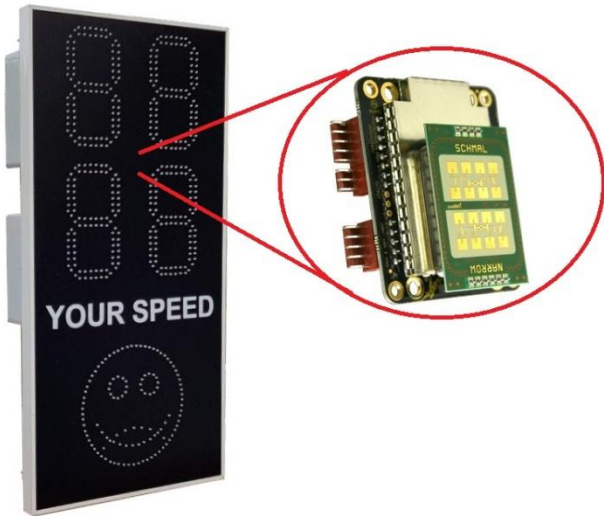
Email: [sales@mtpTraffic.com](mailto:sales@mtpTraffic.com)

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





## Radar(MTP Brand)



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

## Other Spare Parts



6 inch hose clips



4.5 inch Stainless Steel U Camp

**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)





## Description

As above pictures, we can produce Solar Your Speed Radar Signs as customer requested design,

Solar Your Speed Radar signs bring traffic calming to areas where speeding is an issue.

LED radar speed signs have been made in 2 seven segment digit and Face Display Module can set the limit speed number by software. It informs the driver limit speed: show green number and green smile face in limit speed and show red number and red sad face on over of limit speed.

When the vehicle drive into the radar detection area (about 100 meter in the front of radar sign), the microwave radar will automatically detect the speed of the vehicle and the speed will be displayed in the sign to remind the driver to reduce driving speed, which Effectively reduce the road traffic accidents caused by high speed driving.

Speed feedback device has a significant eye-catching induction driving function, can significantly reduce traffic accidents, to achieve safety guidance.

Solar Your Speed Radar Signs warn drivers that they are entering a speed zone or gone over the speed limit.

MTP Traffic Sign is committed to providing earth-friendly technologies that reduce injuries and fatalities by alerting drivers to speed zones. Check out MTP's robust solutions, and feel free to contact us if you have any questions on how we can make your streets safer!

### **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

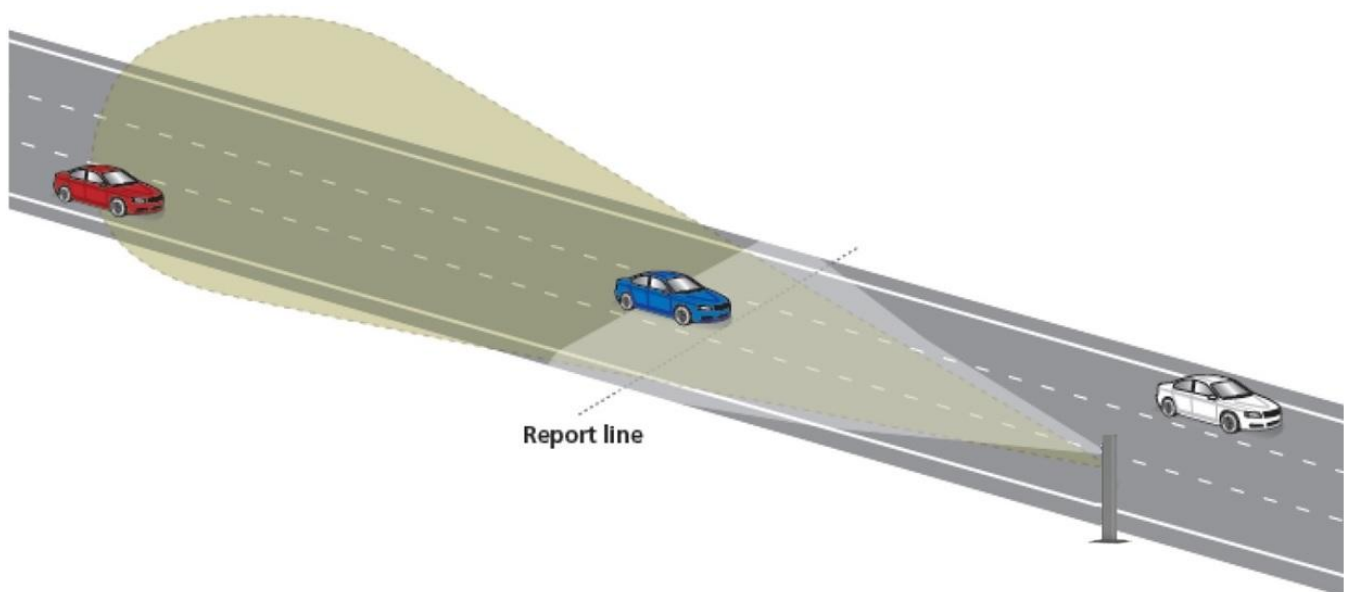
Email: [sales@mtpTraffic.com](mailto:sales@mtpTraffic.com)

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



## Camera Operation

When the vehicle drives into the radar detection area (about 100 meters in the front of radar sign), the microwave radar will automatically detect the vehicle's speed. The speed will be displayed in the sign to remind the driver to reduce driving speed. If the driver did not reduce speed and reach the 60-meter front of the radar sign, then the Smart radar will flash light for a warning to the driver. Which Effectively reduces road traffic accidents caused by high-speed driving.



### **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)

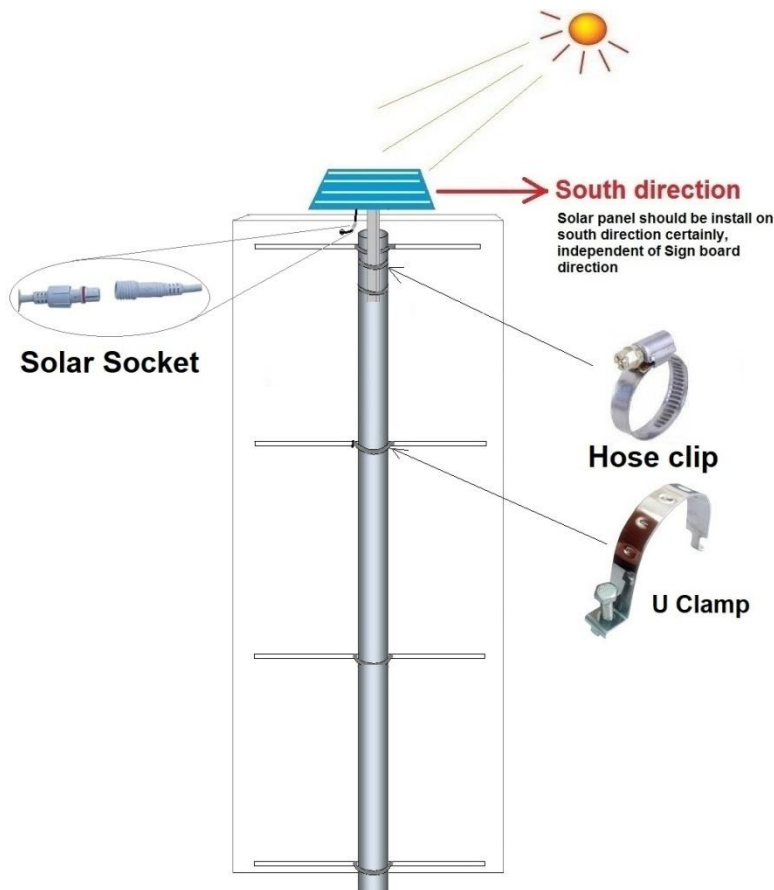


# Installation Guide

## 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,



**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)



## Solar Panel Connection

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

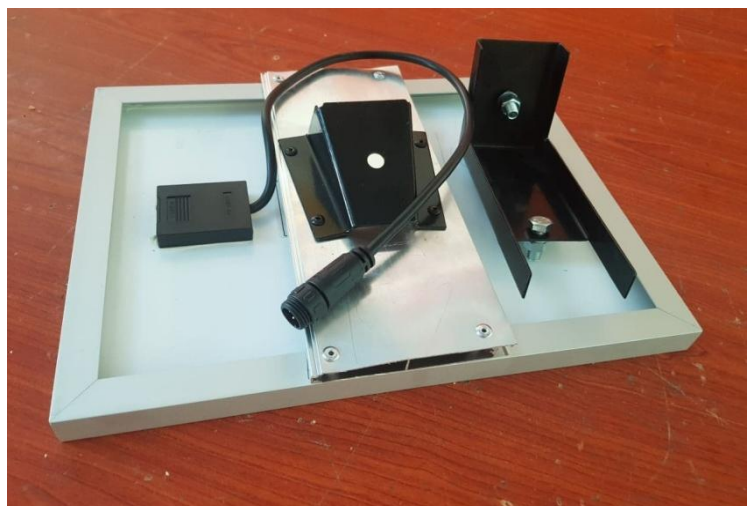
After installation sign board and Solar Panel, adjust solar panel face direction towards south and make tight its nut.

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.



### **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)



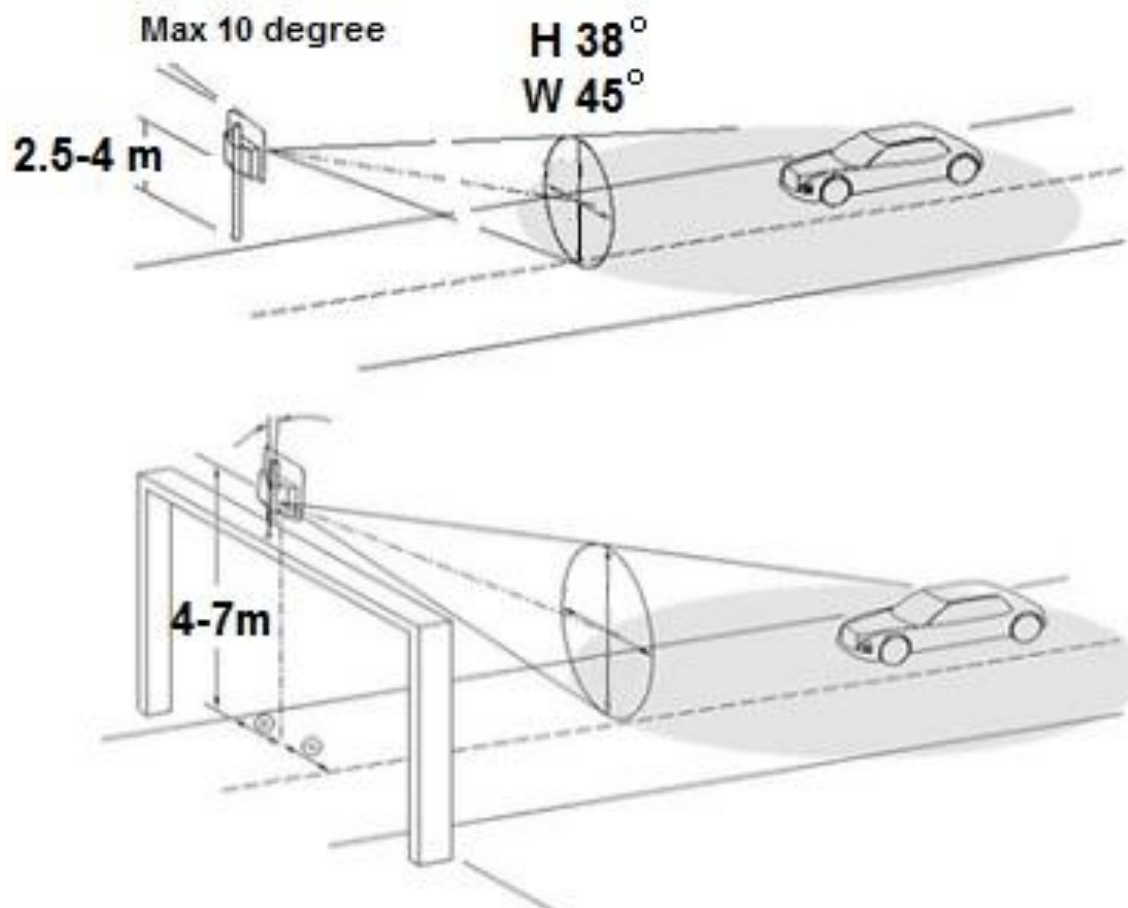


## Note

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.



### **MTP Traffic Sign LLC**

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

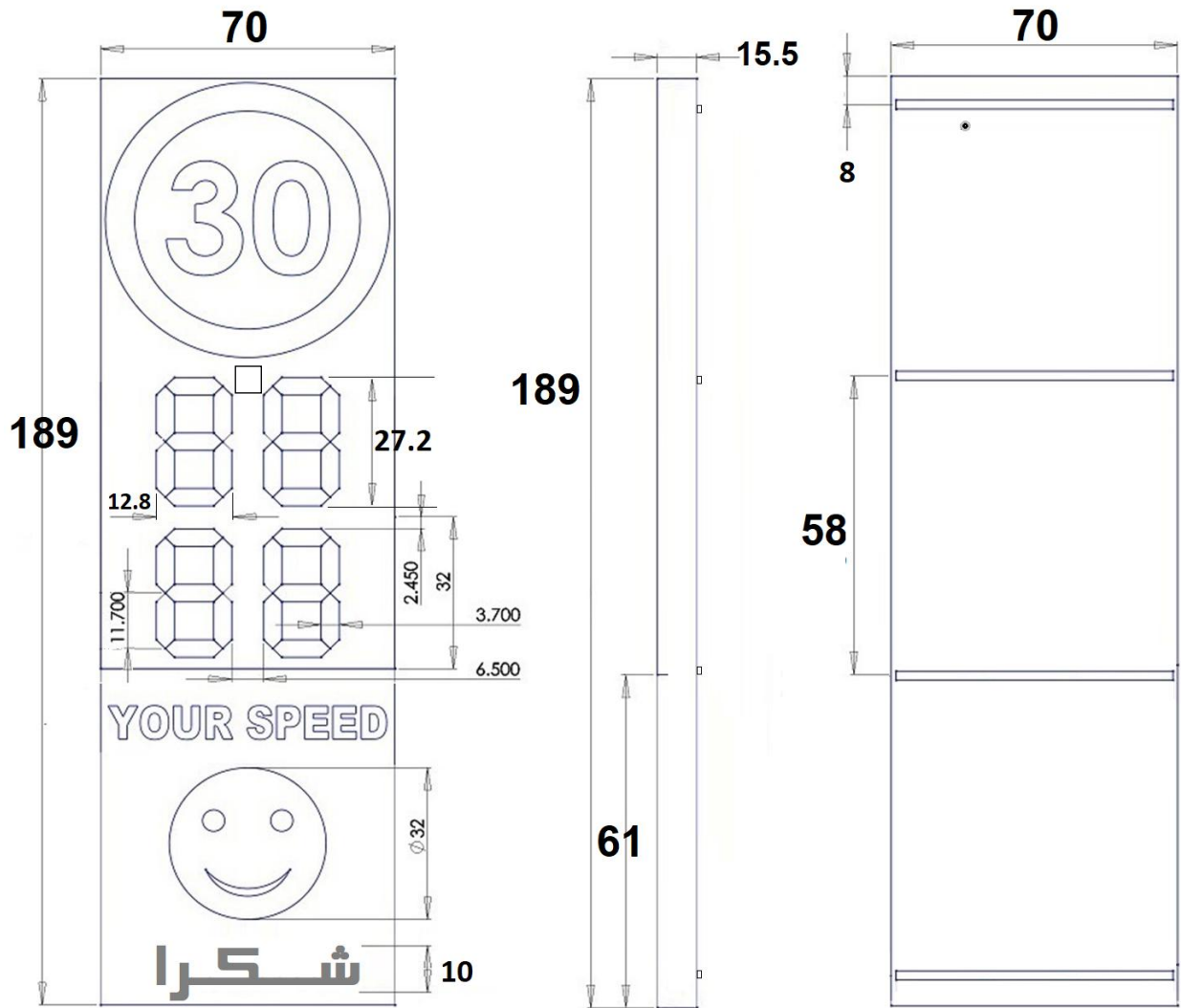
P.O.Box: 9401, Emirates Industrial City- Sharjah - UAE

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

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



## Dimension



**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)





## **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)

