



MTP Traffic Sign



Active day and night

Design and Produce in UAE(Manufactory)



made in UAE

Yours Speed Radar With Digital Face

Model Number: SD60173
MTP Brand



MTP Traffic Sign

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

www.mtpTraffic.com



Technical Specification

Dimension	60cm*173cm*15.5cm
Weight	30Kg
Body Material	Aluminum black color Electrostatic powder coated (MTP Brand)
Solar power	60 Watts, Life time more than 20 years
Battery	Internal 12 volt, 36 Ah, sealed lead acid
Segment model	2 digit with 7 segment LED board (MTP Brand)
Face Module	32*32 pixel, Red and Green LED, P10(10mm pitch) (MTP Brand)
LED quantity	392pcs Super high bright
LED Color	196pcs Red 196pcs Green
LED Life	More than 100,000 Hours
Light luminous	8000mcd
Light Intensity	Automatic regulation light intensity in day and night(day intensity 5 times night)
Light Increment	Charge controller with microcontroller
Radar	CW Doppler device operating in the K-Band (24GHz) (MTP Brand)
Speed Detection Rang	1km/h –99km/h
Detection distance	≤100m
Response Time	≤5ms
Working time after full charge	4 days

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Visible distance	More than 100m
Angle	100 Degree
Reflective sheet	3M

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.

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MTP 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!

Mechanical Specification(MTP Brand)



- . Body material: Aluminum sheet 1.2mm
- . Frame: Aluminum profile with special design
- . Frame size: 2*15*0.2cm
- . Color quality: Electrostatic Powder Coating
- . Color: Black Matte
- . Front sheet material: Aluminum with Composite,
- . 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 module are equal to 392pcs for Seven Segment and 2048pcs for face display,

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Face 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.

Battery



Sealed Lead Acid batteries of 2x12v *18Ah, totally 36Ah, 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 Meanwell company.

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Solar Panel



SILICON SOLAR PV MODULE	
Model	SA-60P
Pm	60 watt
Vmp	18V
Imp	3.36A
Voc	21.24V
Isc	3.66A
Dimension	55*65*3cm
Max System Voltage	1000V
Test Condition	AM1.5 1000W/m ² 25°C

Solar panel is 60W, 18v 3.36A, with the efficiency of %16.

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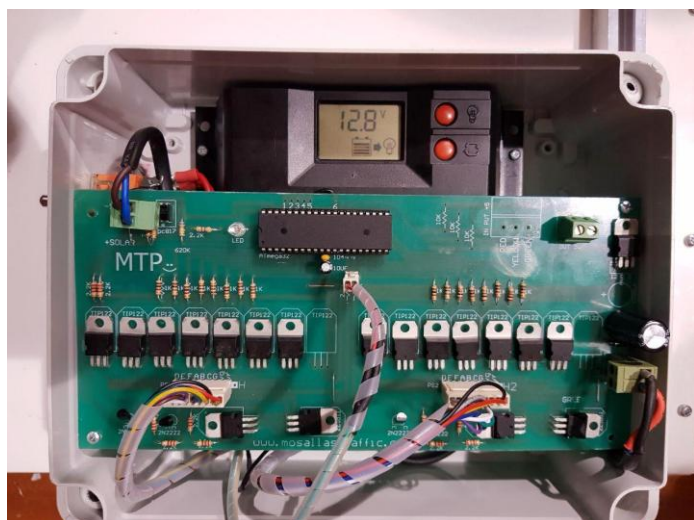
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Intelligent Microcontroller System(MTP Brand)



- 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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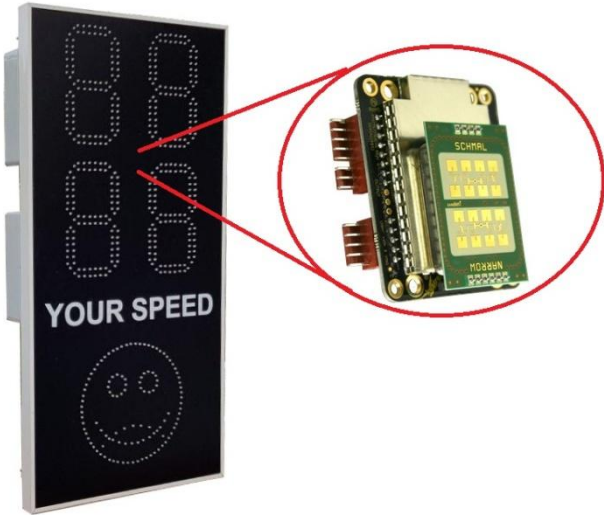
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Radar



**CW Doppler device operating in
the K-Band (24GHz)
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Other Spare Parts



6 inch hose clamp



4 inch Stainless Steel Clamp

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Solar Panel Connection

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

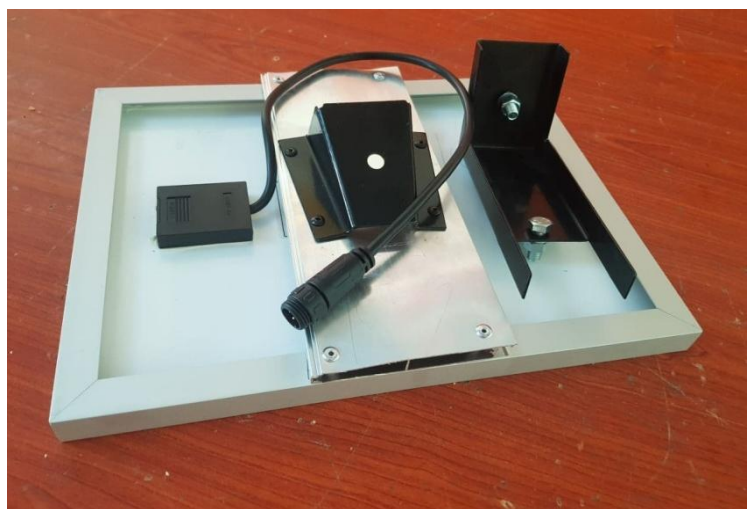
After installation sign board and Solar Panel, adjust solar panel face direction towards south and make tight its nut.

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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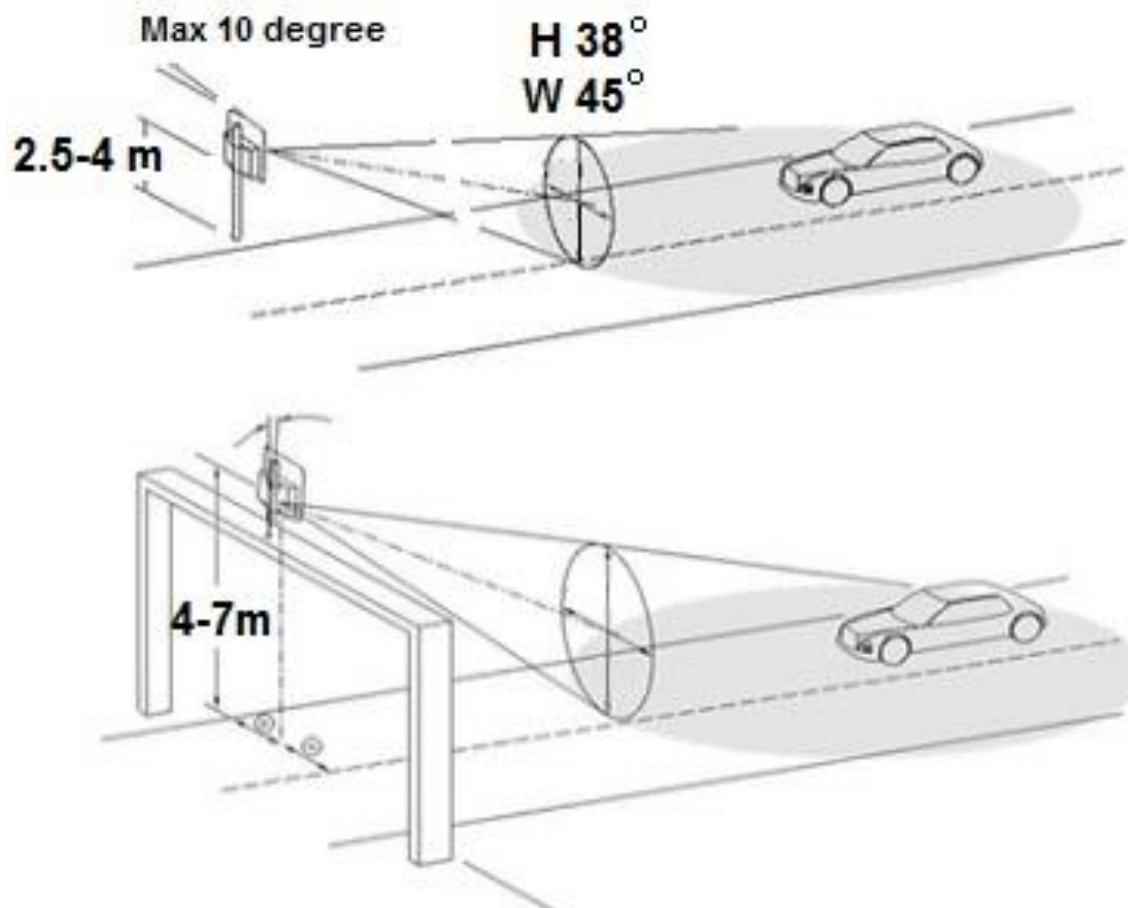


Note

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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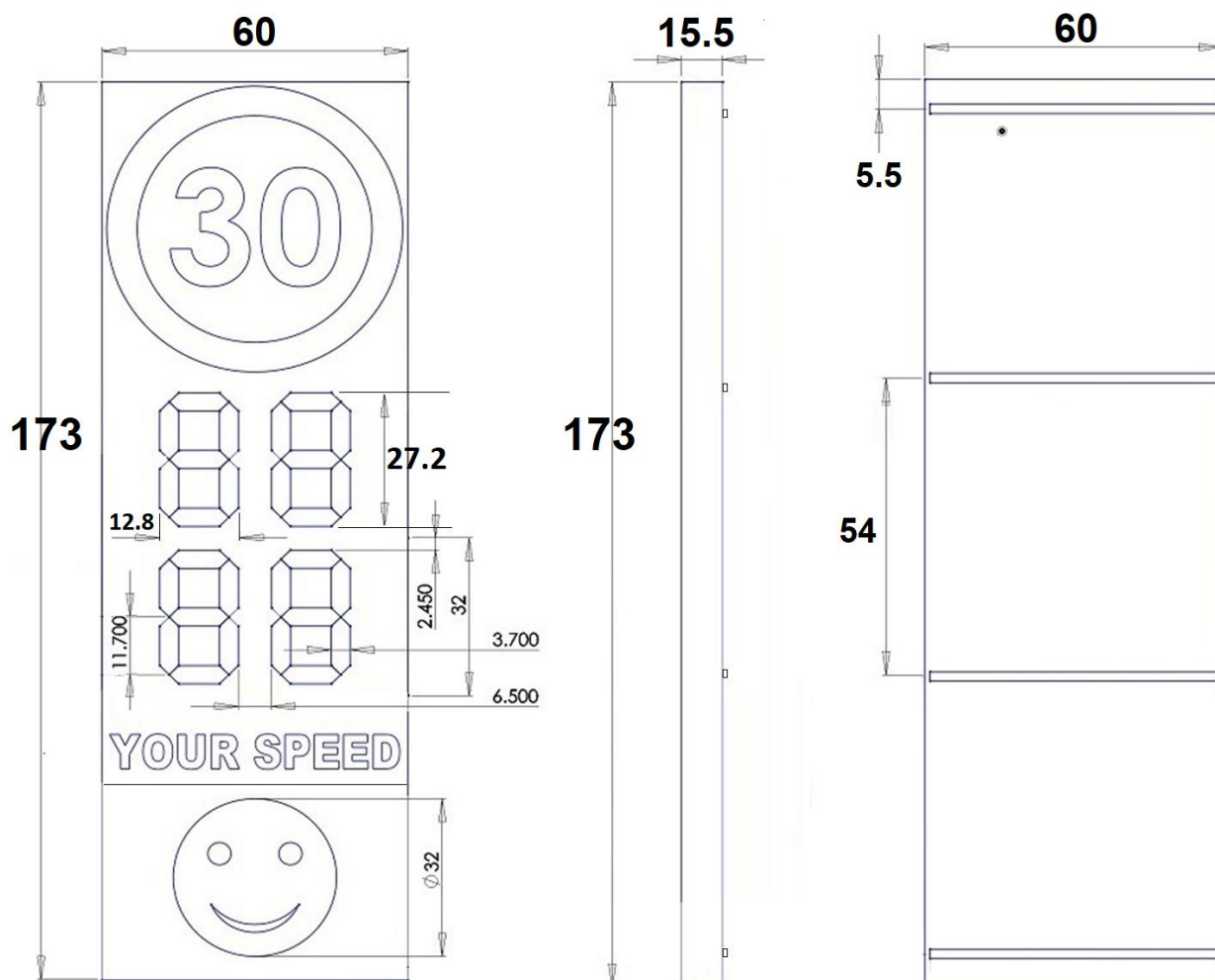
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Dimension



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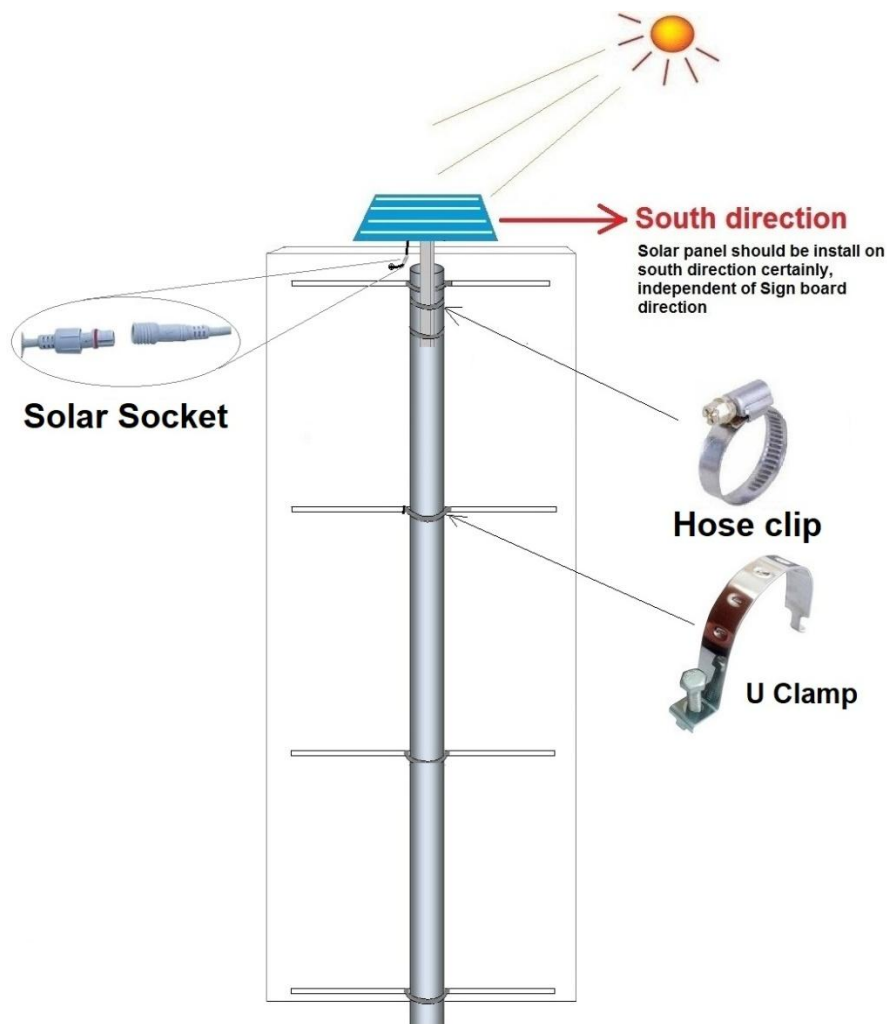


Installation

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,



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