



MTP Traffic Sign



Active day and night

Design and Produce in UAE(Manufactory)



made in UAE

**Yours Speed Radar Sign
With Camera**

**Model Number: SDC60173
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

www.mtpTraffic.com



Technical Specification

Dimension	60cm*173cm*15cm
Weight	30Kg
Body Material	Aluminum black color Electrostatic powder coated (MTP Brand)
Solar power	60 Watts, Life time more than 20 years
Grid Power for Camera	AC 110-220v
Battery	Internal 12 volt, 54 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 Quantiry	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
Camera Resolution	Main stream 1920*1080 pixel with 30fps
Camera Zoom ability	25x zoom, Up to 2 megapixel
Minimum illumination	0.005ux for color mode

Over Speed Recorder(MTP Brand)



- . Recording violator car images,
- . Recording video few second before and after Report line for violator car,
- . Processing data from Radar and Camera,
- . Synchronizing Radar with Camera,
- . Sending pictures and data to Control Room through WIFI or Data Sim Card,
- . Connectable to Your Speed Radar,
- . Online Accessible for Checking and Control,
- . Camera PTZ with 4 megapixel resolution,
- . Power Supply Ac220v to DC12v,
- . Router(SimCard Modem),
- . Online transferring data ability,
- . Wi-fi collection data(optional)
- . USB Flash saving data(optional),
- . Flash Memory saving data(optional),
- . Equipped with IR light for night visibility(Optional),
- . Size 20*30*40cm

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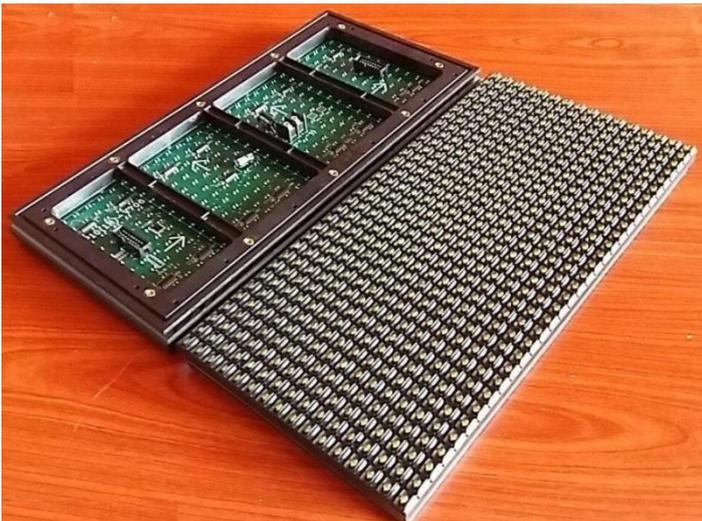


LED



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,

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.

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Battery



Sealed Lead Acid batteries of 3x12v *18Ah, totally 54Ah, 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 3.66A, 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*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

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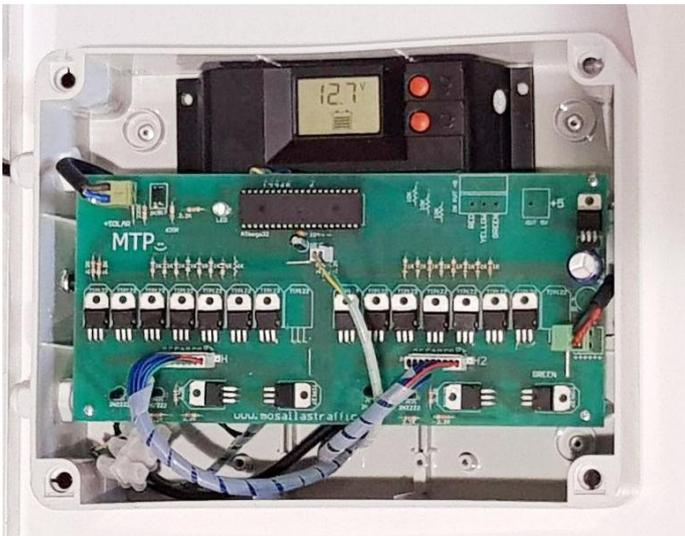
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Intelligent Microcontroller System(MTP Brand)



- 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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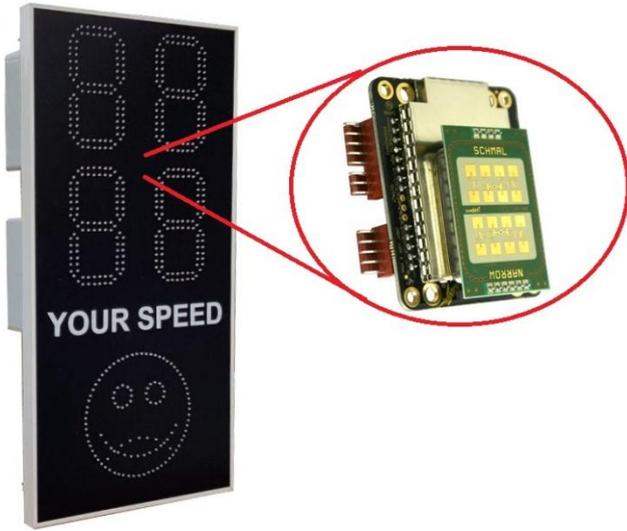
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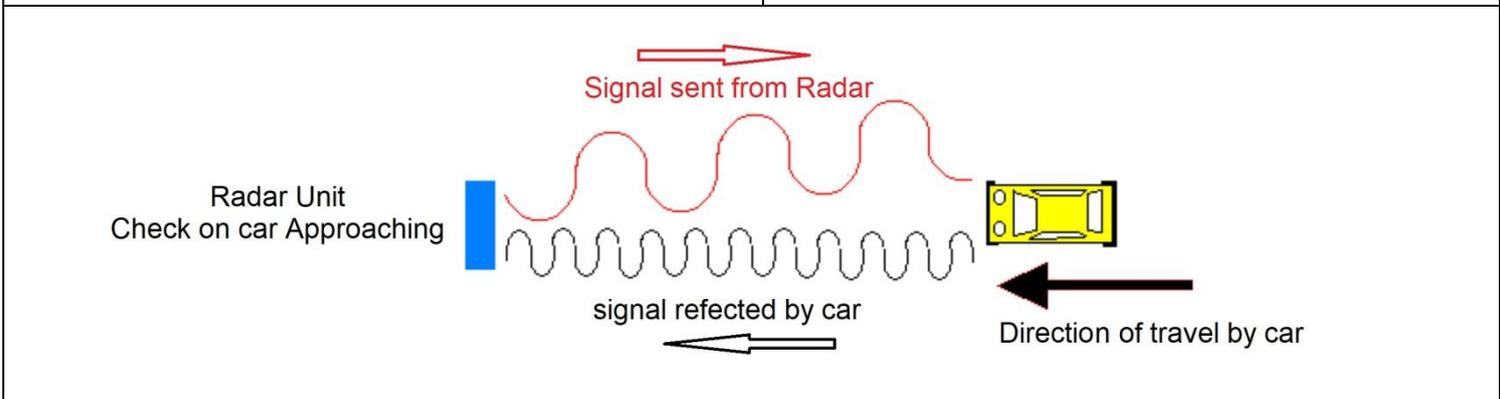
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Radar



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



Other Spare Parts



6 inch hose clamp



4 inch Stainless Steel Clamp

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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!

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Camera Operation

Camera operates from the side of the road and tracking traffic for speed and distance.

Tracking starts at almost 20 meters and vehicles

Exceeding the speed limit trigger the system at a set report line.

A picture and one video(optional) is taken of the violating vehicle and stored with time, date, speed and location embedded in the file,

Pictures and video recorded by fast and high resolution camera and save and transfer to control room as optional.

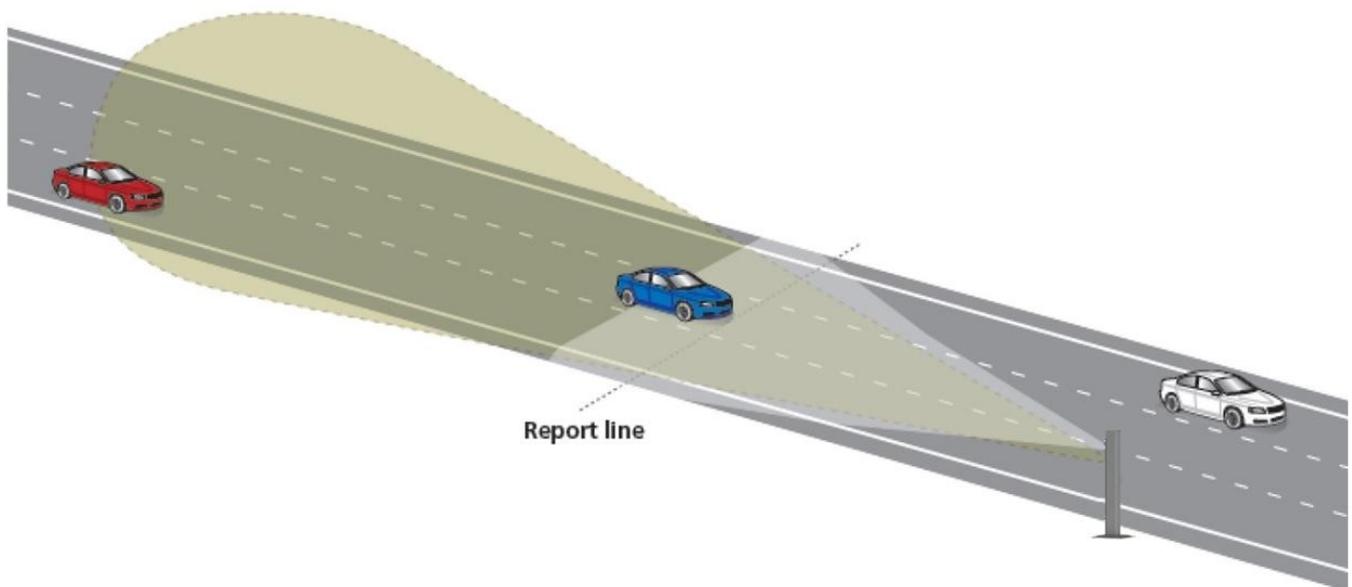


Diagram of installation and activity of Your Speed Radar with Camera

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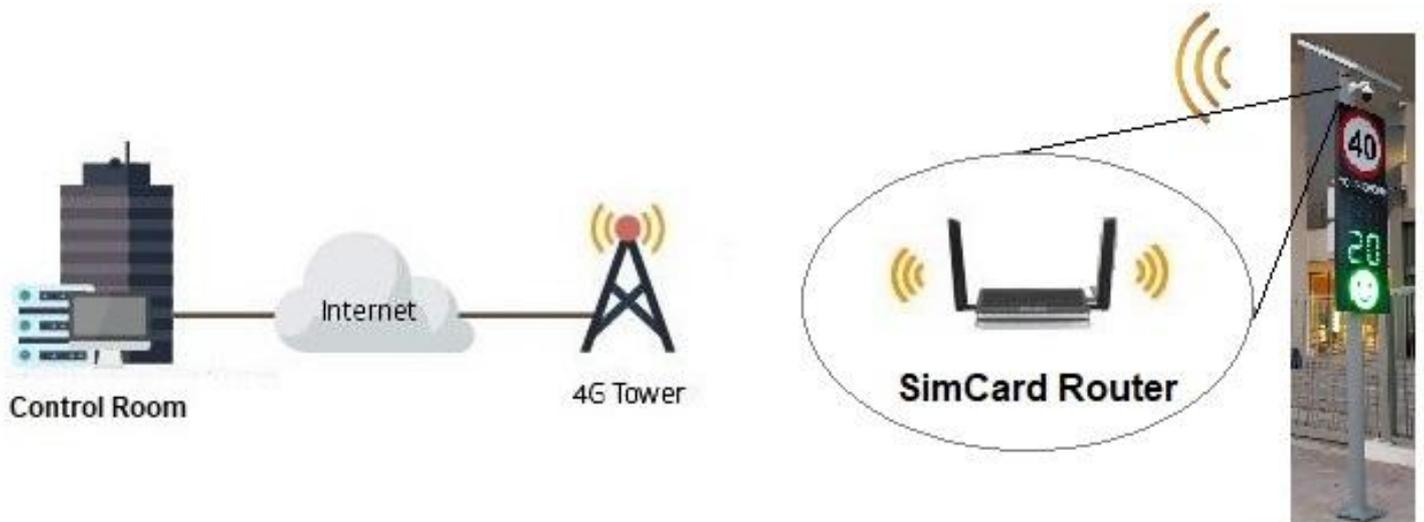
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Router

After detection over speed violation with Doppler radar, camera will record one image and one video(optional) of violator vehicle and save it in controller.

These images and video along with its data like as date, hours and place can send to control office via one Router which is embedded in Your Speed Radar. This Router has one Simcard which provided with user. It can make secure connection between our violation detector and control office.



Data transferring with Simcard Router

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Flash Memory and Wifi Collection

Another option is available with our system and it is WIFI collection data.

Means user officer can collect all data and images and videos with stop beside of camera for a few minutes, so data and images and video will transfer from Your Speed Radar to User laptop with WIFI connection.

One more option is available also for collection data and it is USB Flash Memory.

Our controller can save all of violation data and images and video on flash memory, so user officer only have to visit camera every day or couples of days and remove flash memory and put new flashB memory.



Data Collection ways, USB memory, WIFI system, Simcard internet

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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 board.

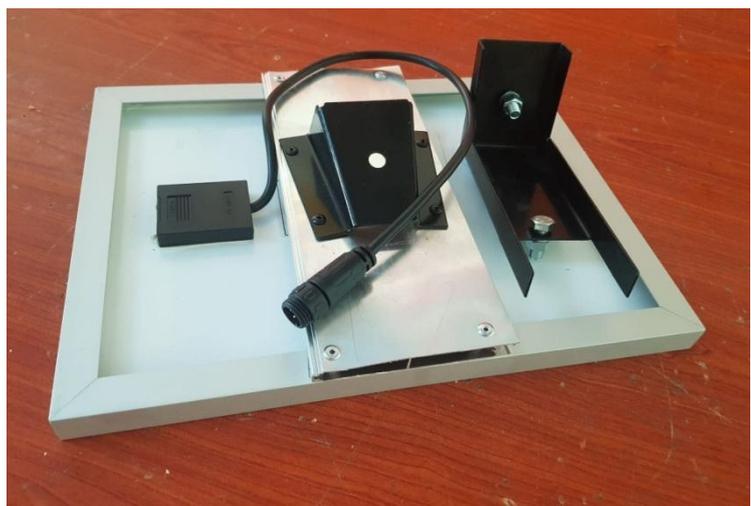
After installation sign board and Solar Panel, adjust solar panel face direction towards south and make tight its nut.

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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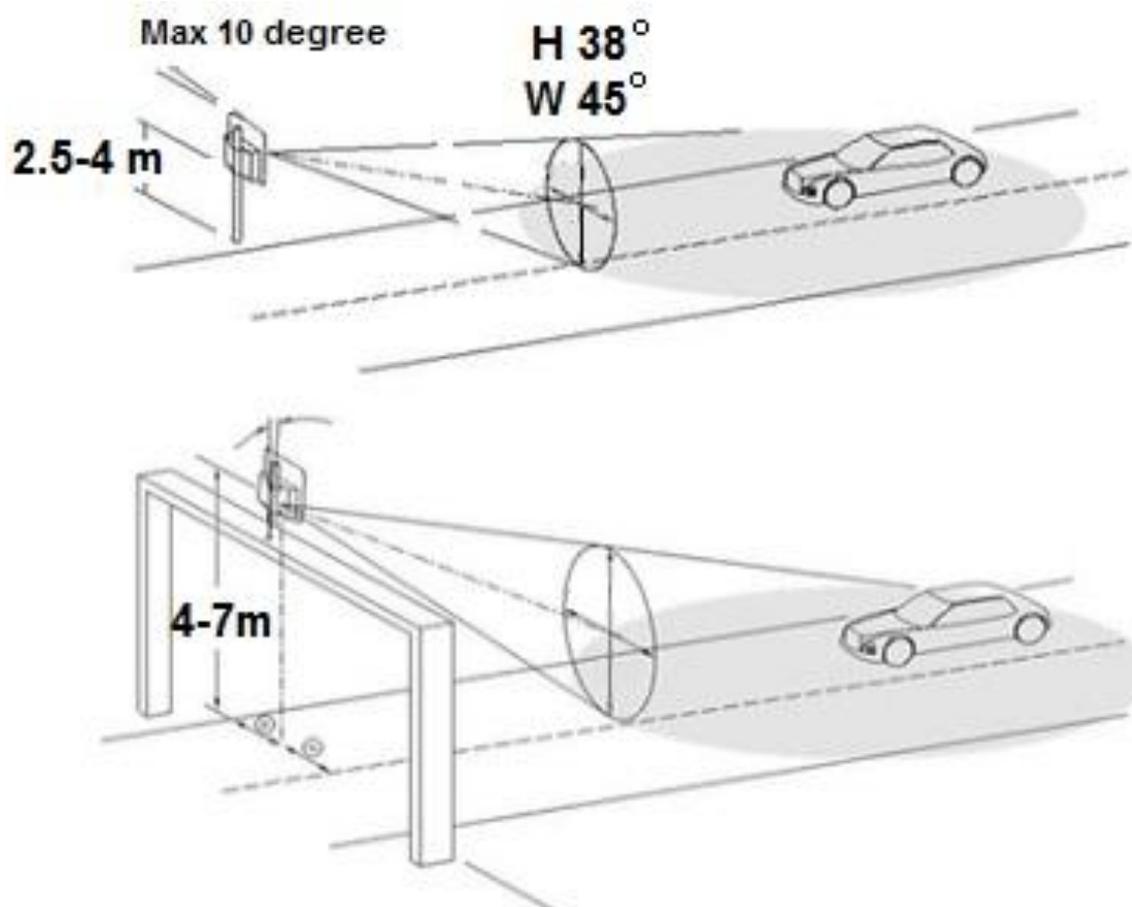


Note

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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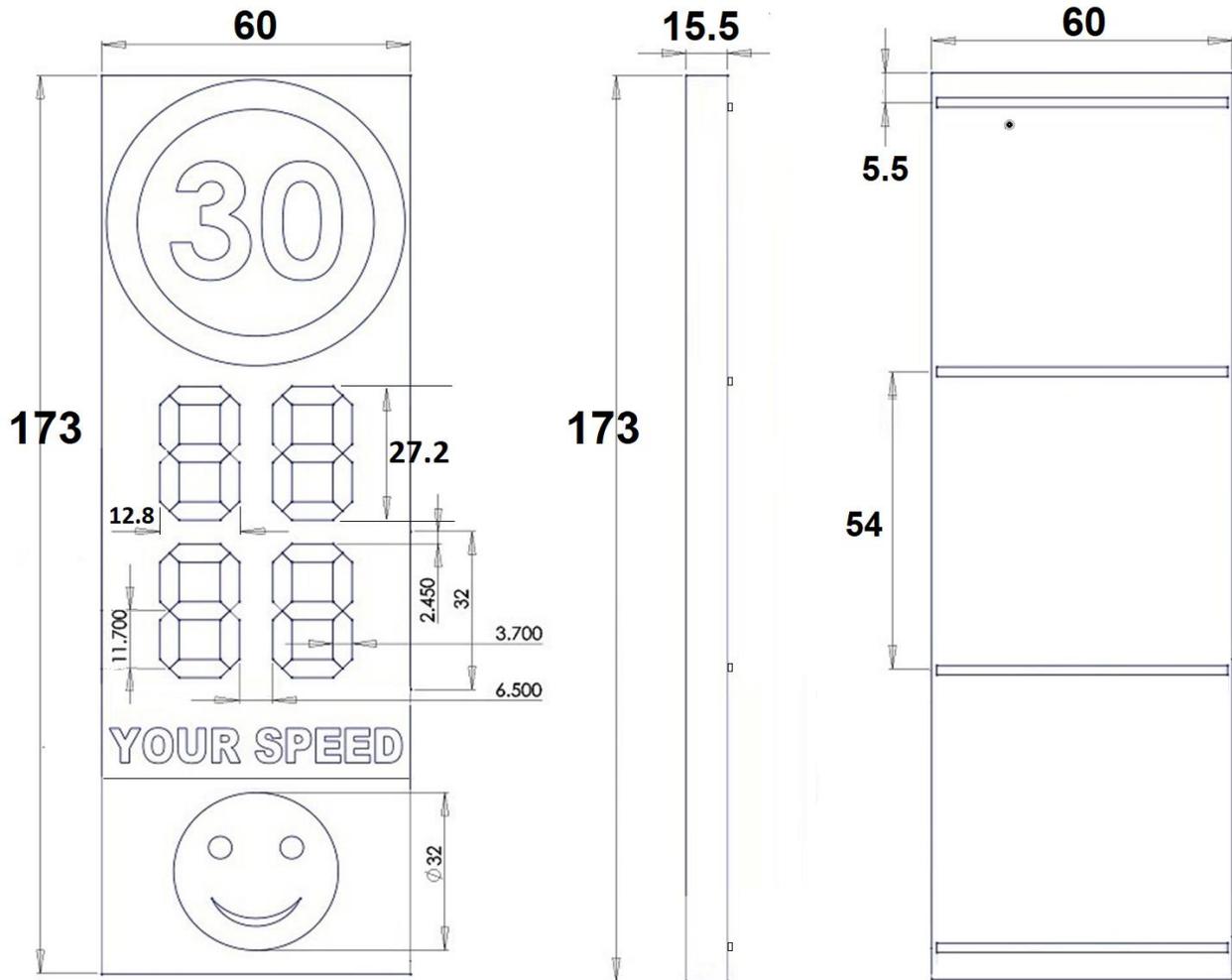
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Dimension



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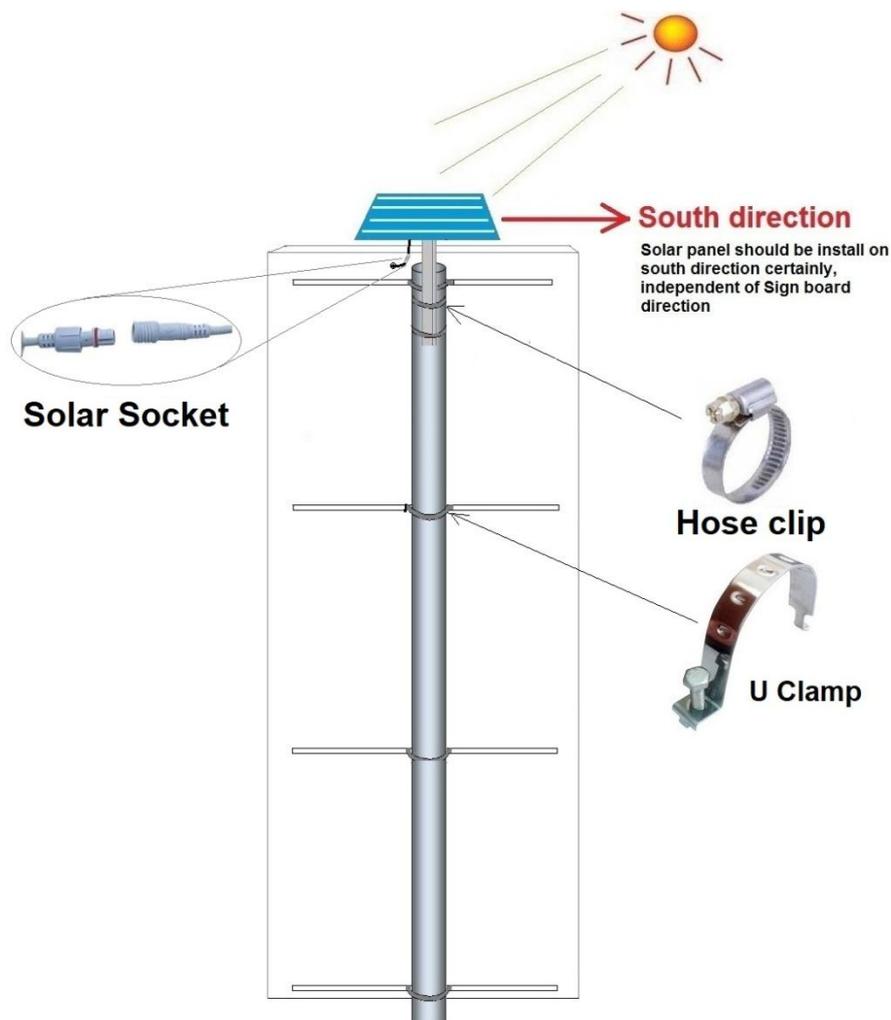


Installation

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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