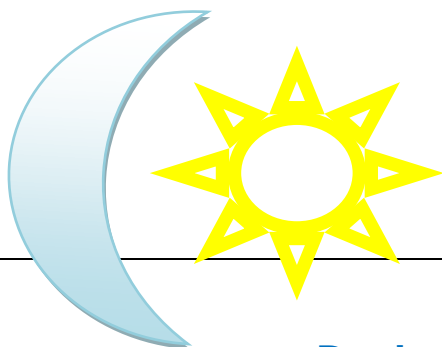




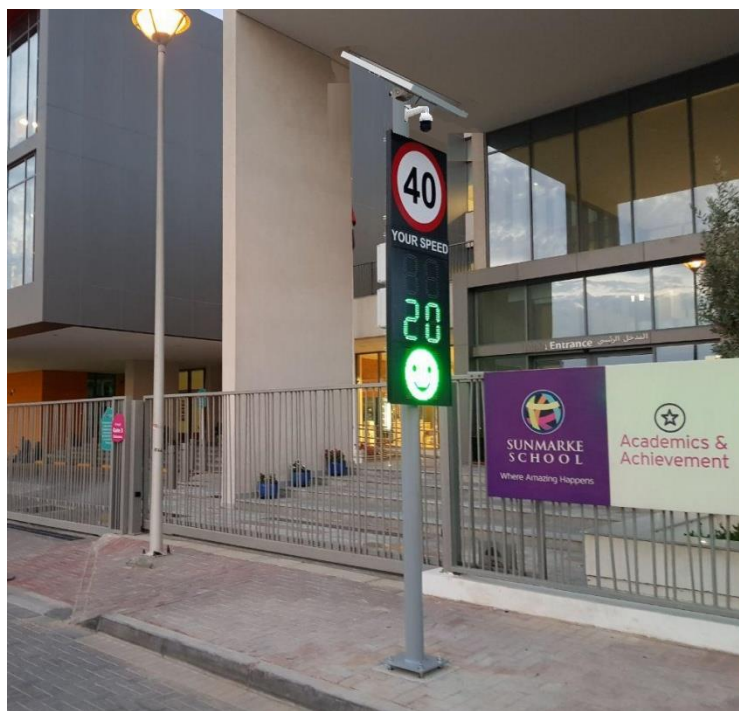
UAT MTP



Active day and night

Design and Produce by MTP(Manufactory)

**Radar Yours Speed Sign
With Camera**



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Technical Specification

Dimension	60cm*173cm*5cm
Weight	30Kg
Body Material	Aluminum black color Electrostatic powder coated
Solar power	100 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 digits with 7 segment LED board
Face Module	32*32 pixel, Red and Green LED, P10(10mm pitch)
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)
Speed Detection Rang	1km/h – 199km/h
Detection distance	≤100m
Response Time	≤5ms
Radar Working time after full charge	4 days

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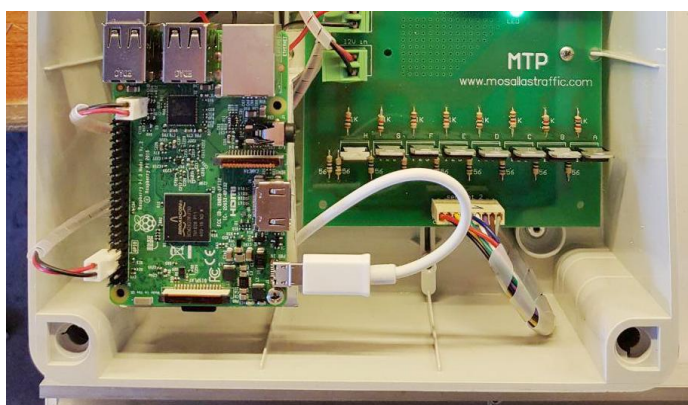
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Visible distance	More than 100m
Angle	100 Degree
Reflective sheet	3M
Camera Resolution	Main stream 1920*1080 pixel with 30fps
Camera Zome abality	25x zoom, Up to 2 megapixel
Minimum illumination	0.005ux for color mode

Over Speed Recorder



- . Connectable to Your Speed Radar,
- . Online Accessible for Checking and Controlling,
- . Camera PTZ with 4 megapixels resolution,
- . Power Supply Ac220v to DC12v,
- . Router (Sim Card Modem),
- . Online transferring data ability,
- . Wi-fi collection data,
- . USB Flash saving data,
- . Recording violator car image,
- . Recording video few second before and after Report line for violator car,
- . Equipped with IR light for night visibility,
- . Size 20*30*40cm

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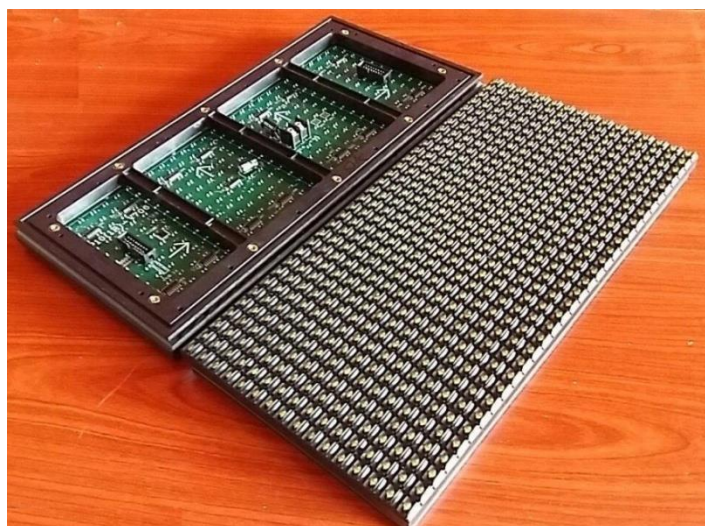
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LED



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



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 volts 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-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 ² 25°C

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

Mechanical Specification



- . Body material: Aluminum sheet 1.2mm
- . Frame: Aluminum profile with special design
- . Frame size: 2*5*0.2cm
- . Color quality: Electrostatic Powder Coating
- . Color: Black Matte
- . Front sheet material: Plexiglas with special finishing to preventing sky light reflection
- . Front sheet Thickness: 4mm
- . Installation stand: Special U Chanel as UAE Traffic Sign standard

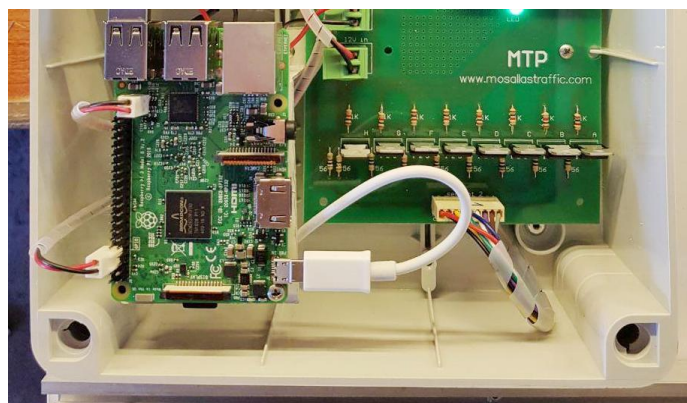
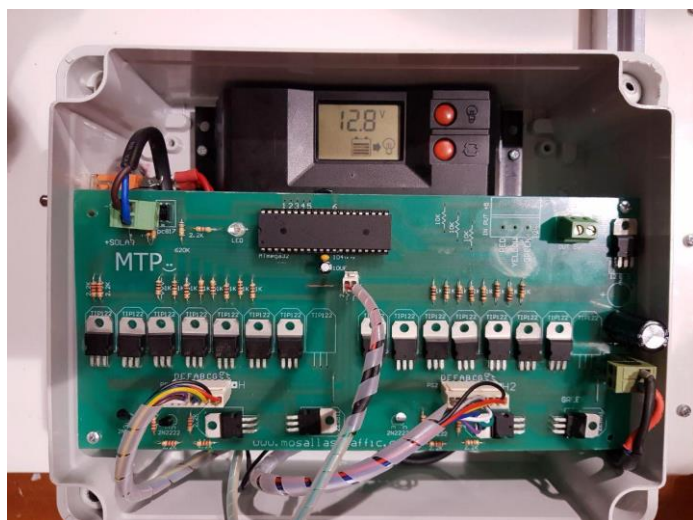
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Intelligent Microcontroller System



- Processing data from Radar and Camera,
- Synchronizing Radar with Camera,
- Taking violator vehicle picture on specific area,
- Arranging Time, Date, Location of violation,
- Sending picture and data to Control Room Center through WIFI or Sim Card internet,
- Measuring voltage of battery, solar panel, charge current and related measuring,
- Light Regulation and optimization of consumption, according to charge current (environmental light) and battery voltage and solar panel,
- 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,
- Maximum exited rates (day) into its minimum (night) is 5 to 1 and (it is changeable, on the basis of order),

Controller circuit is considered in a separated package.

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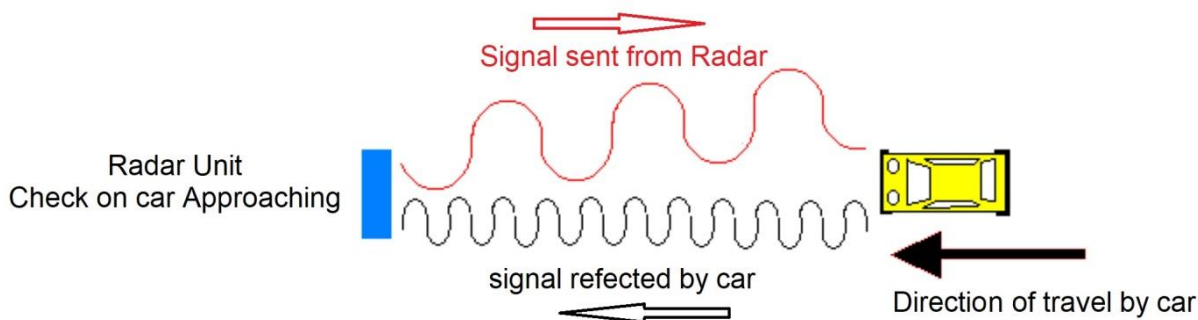
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Radar



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



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 drives 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 FZC 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.

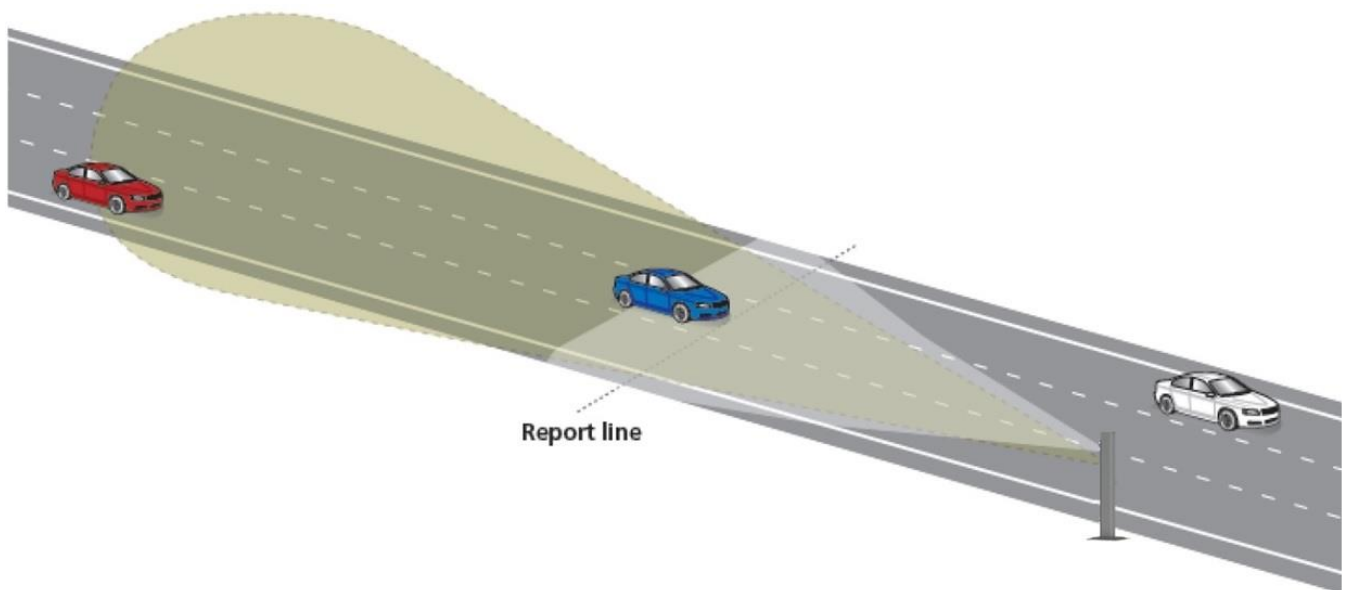


Diagram of installation and activity of Your Speed Radar with Camera

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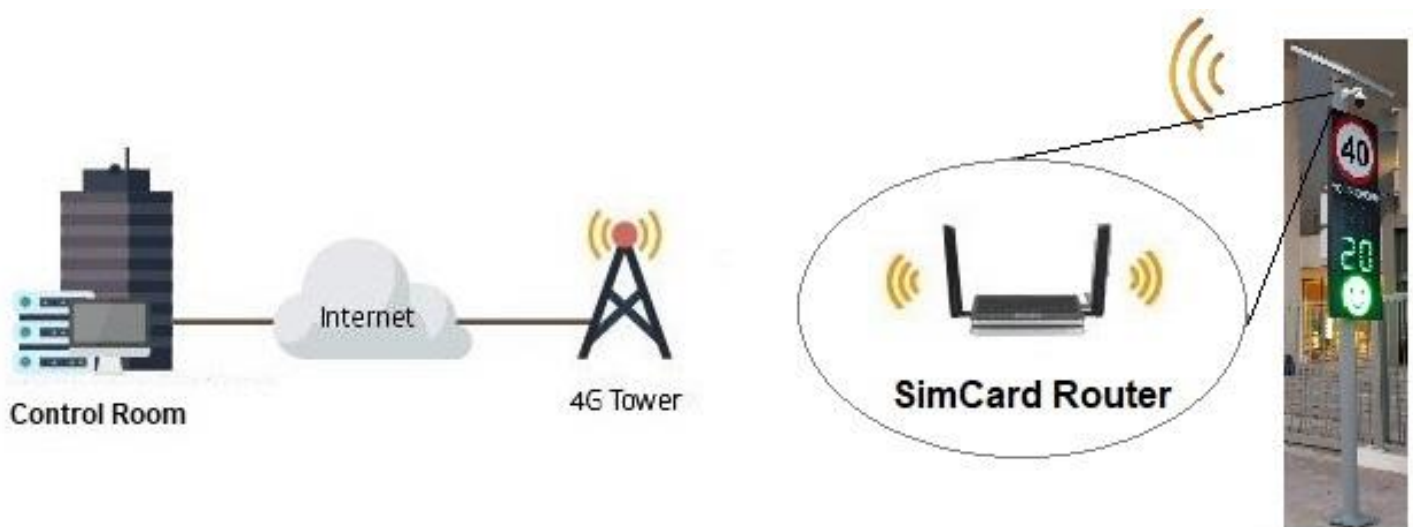
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Router

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 Sim Card which provided with user. It can make secure connection between our violation detector and control office.



Data transferring with Sim Card Router

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USB flash 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 memory.

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



Data Collection ways, USB memory, WIFI system, Sim Card internet

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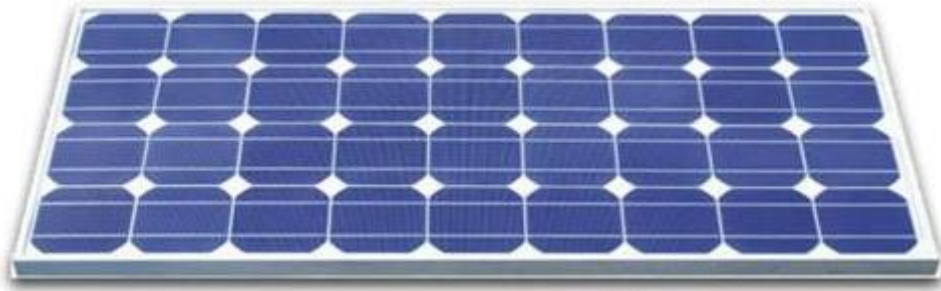
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Solar Panel Connection

Each solar panel has a cable, having 1 socket. After installation sign board on the pole, Connect Solar cable Socket to control box Socket.



Solar panel is installed on pole by a black Bracket. After orientation of solar panel into south, they are fastened by two house clips.

The solar panels work with the solar controller located in the system's battery compartment. The controller continually recharges the batteries up to full whenever sufficient sunlight generates a charging current. It prevents overcharging the batteries and draining the batteries during low-light periods. Appropriate panel size for solar assist depends on display sign model, traffic volume, geographic location, battery capacity and operating times. Actual performance depends on application and mounting location. Place panels in direct sunlight and tilt them toward true south to maximize their effectiveness. To calculate the best angle of tilt in the winter when there are the least sun hours, take your latitude, multiply by 0.89, and add 24 degrees. The result is the angle from the horizontal at which the panel should be tilted. Mount the Your Speed display unit so the display remains out of direct sunlight whenever possible for optimal viewing. MTP uses Sealed Lead Acid batteries for solar systems, as charging lithium batteries in extreme hot or cold temperatures can damage the battery.

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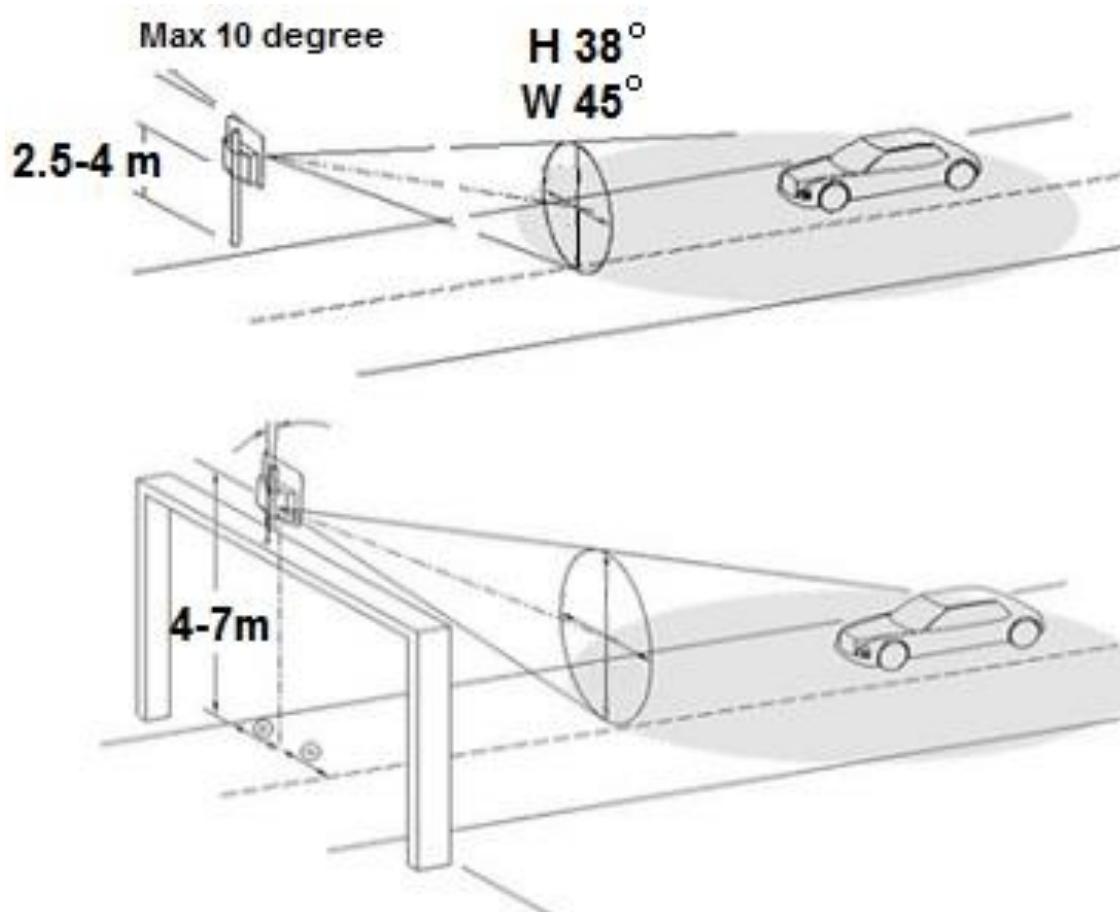
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Note

The Your Speed Sign fixed on the road left or right, or just above the road, so that the direction of the radar port to the car, the tilt angle of not more than 10 degrees.

If it is fixed above the road, the radar fixed position should be radar Cavity oblique angle alignment to the car location. At the same time, the higher the distance between the radar and the ground, the farther away the radar works. Generally, the distance from the ground to radar in 2.5-7 m is better.



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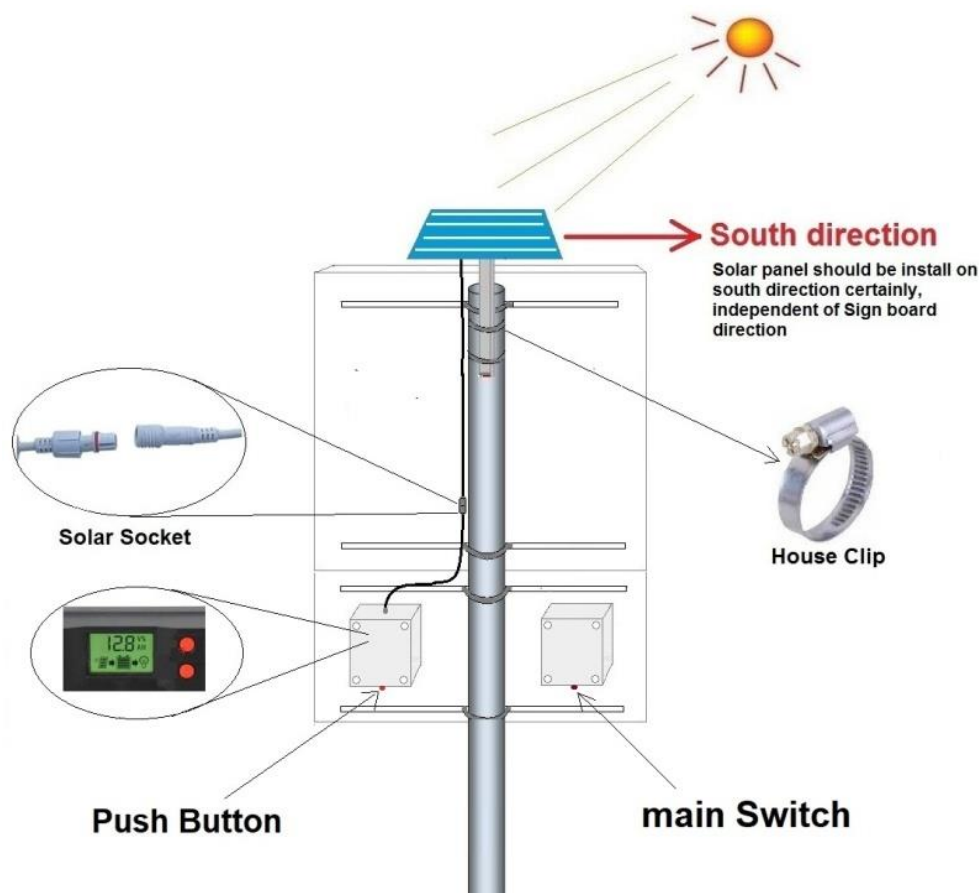
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Installation

Five Steps to Installation:

- 1- Fixing Sign Board on the Pole with Hose Clip,
- 2- Fixing Solar panel on top of pole in **South direction** with Round Clamp,
- 3- Connect solar cable Socket to control box Socket,
- 4- Turn ON main switch which is below controller box,
- 5- Adjust speed limit by push button which is below of control box, it will increase with 5km steps, green light shows speed limit after each push,

Note: If want keep sign on the store, please turn OFF main switch,



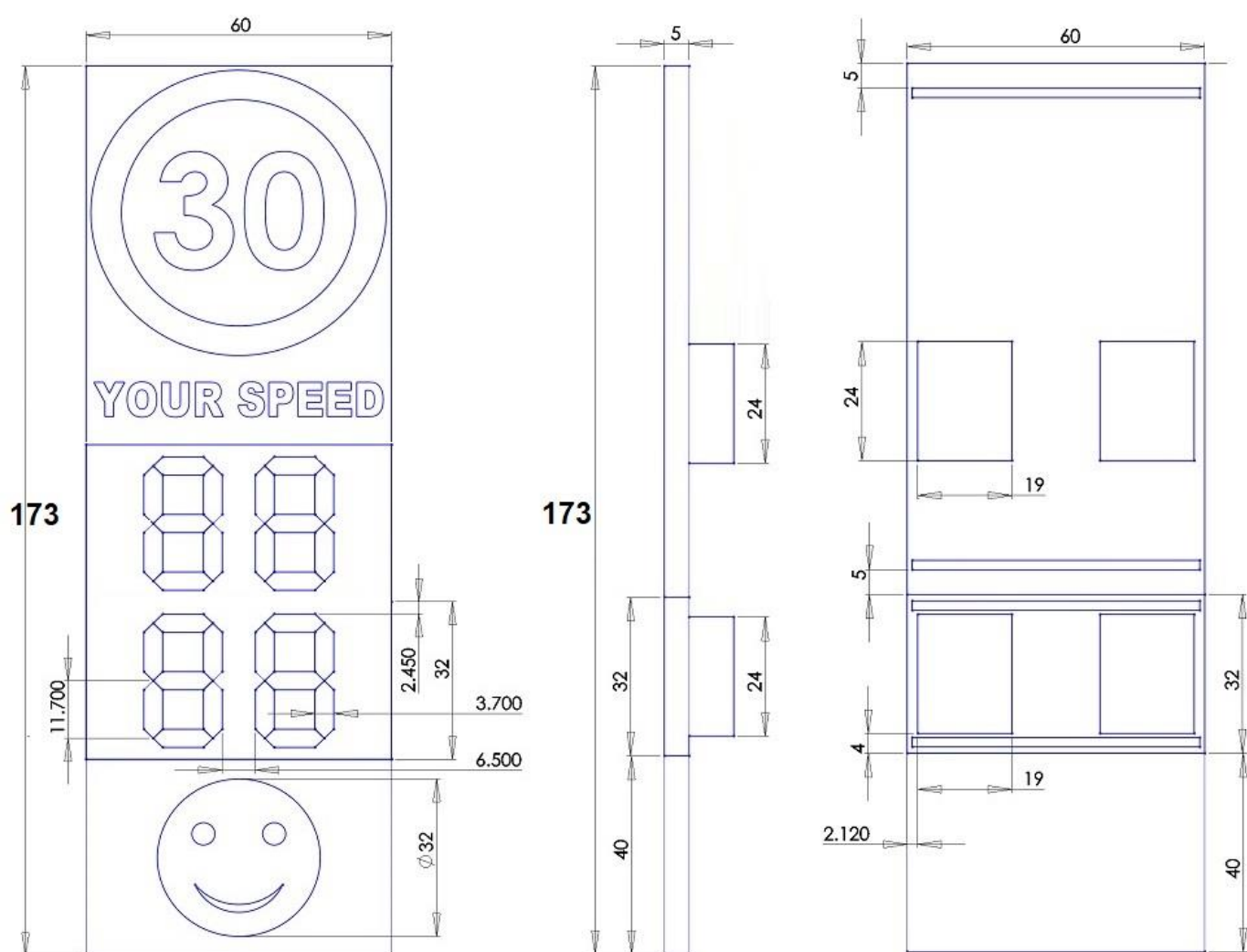
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Dimension



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