



MTP Traffic Sign



Active day and night

Design and Produce by MTP(Manufactory)



Radar Yours Speed Sign

- With Digital face

- With message

**THANK YOU
&
SLOW DOWN**

- Arabic and English

With

- Modem and Remote Access

With

- Online Average speed Graph

With

- Online Bicycle Passing
Graph

Model numbrer: SDMG7085
(MTP Brand)



MTP Traffic Sign LLC

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Email: sales@mtpTraffic.com

www.mtpTraffic.com



Technical Specification

Dimension	Size : 70*85*15.5cm
Weight	22Kg
Body Material	Aluminum black and white color Electrostatic powder coated (MTP Brand)
Battery	Internal 12 volt, 68 Ah, sealed lead acid
Solar power	200 Watts, Life time more than 20 years
Display model	2 digit with 7 segment LED board + Emoji Face + Arabic and English Message (MTP Brand)
LED quantity	196pcs Red + 196pcs Green + 2048pcs SMD two color emoji + 1024pcs SMD Arabic and English message
Emoji Face display	64*32 pixel SMD two color (MTP Brand)
Message display	64*32 pixel SMD two color Arabic and English message (MTP Brand)
LED Life	More than 100,000 Hours
Light luminous	8000mcd
Modem	Access to simcard
Remote access	Online Monitoring battery voltage Online Switch ON/OFF Online Time setting Online avverage speed of passing vehicles With Graph Online counting vehicles passing With Graph (MTP Software)

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Radar	CW Doppler device operating in the K-Band (24GHz) (MTP Brand)
Speed Detection Rang	1km/h – 99km/h
Detection distance	≤150m
Response Time	≤5ms
Working time after full charge	4 days
Visible distance	More than 100m
Angle	100 Degree
Certificate Compatibility	EN12966 - EN12899 1

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LED

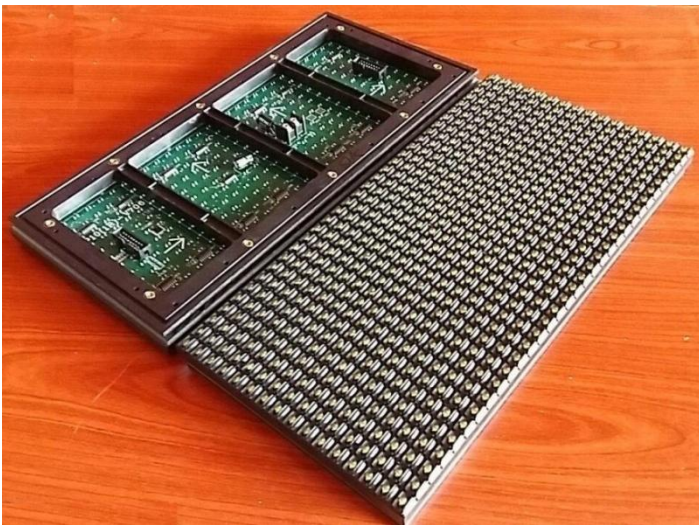


MTP used its own design for LED arrangement and circuit to be its light familiar with driver eyes and also more life time for LEDs.

The light intensity for LEDs are 8000mcd with 100,000 hours life time. Total numbers of LEDs:

- 196pcs Red
- + 196pcs Green
- + 2048pcs multi color emoji
- + 1024 Arabic and English message

Face and message Display Module(MTP Brand)



LED 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 68Ah (4x12v-17Ah), 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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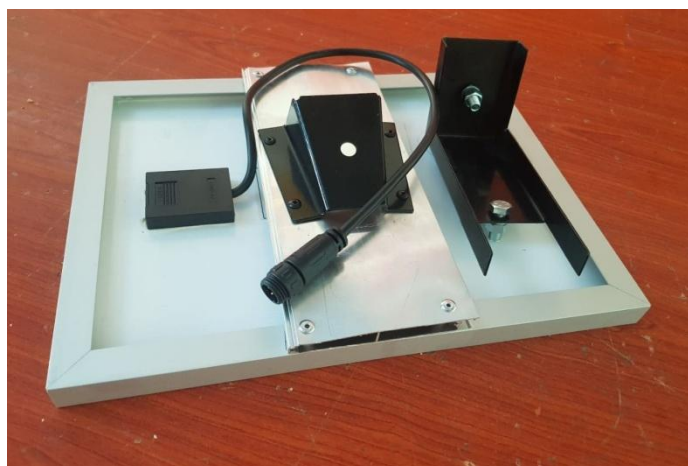
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Solar Panel



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 are 200watt,
(2 pcs 100W, 18v 5.5A), with 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: Polycarbonate
- . Installation stand: Special U Chanel as UAE Traffic Sign standard

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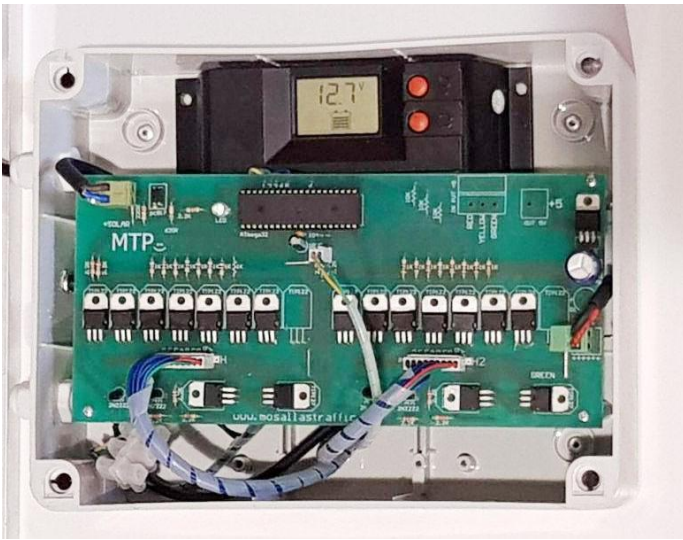
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Intelligent Microcontroller System(MTP Brand)



- 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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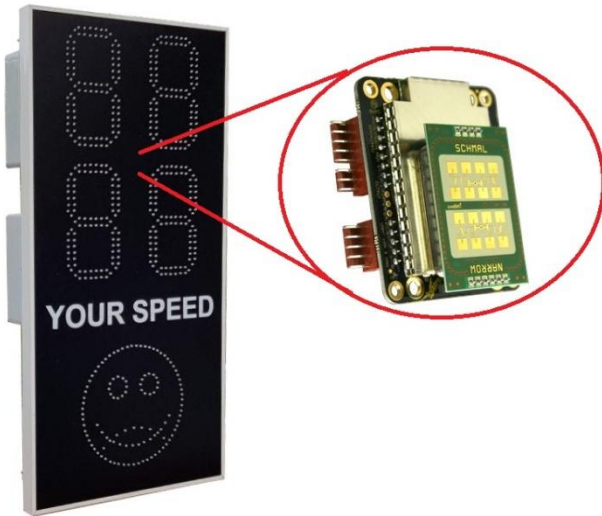
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Radar(MTP Brand)



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Other Spare Parts



6 inch hose clips



4.5 inch Stainless Steel U Clamp

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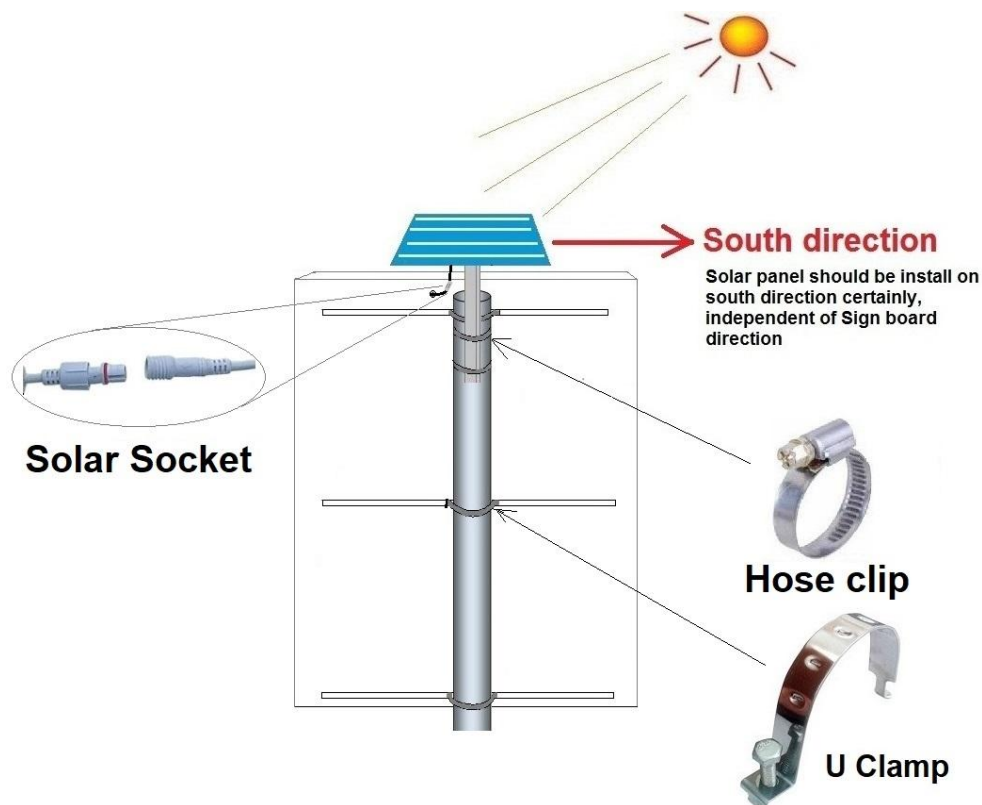
Installation Guide

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,



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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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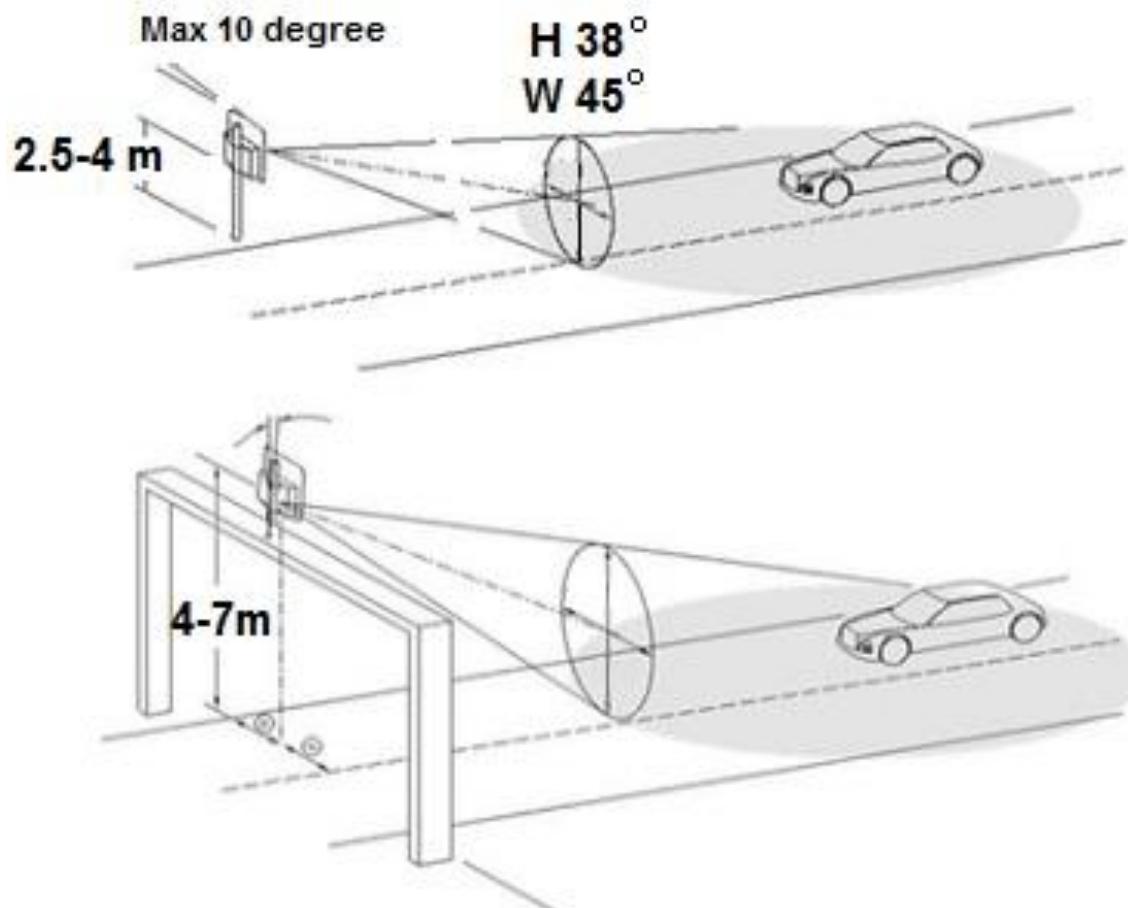


Note

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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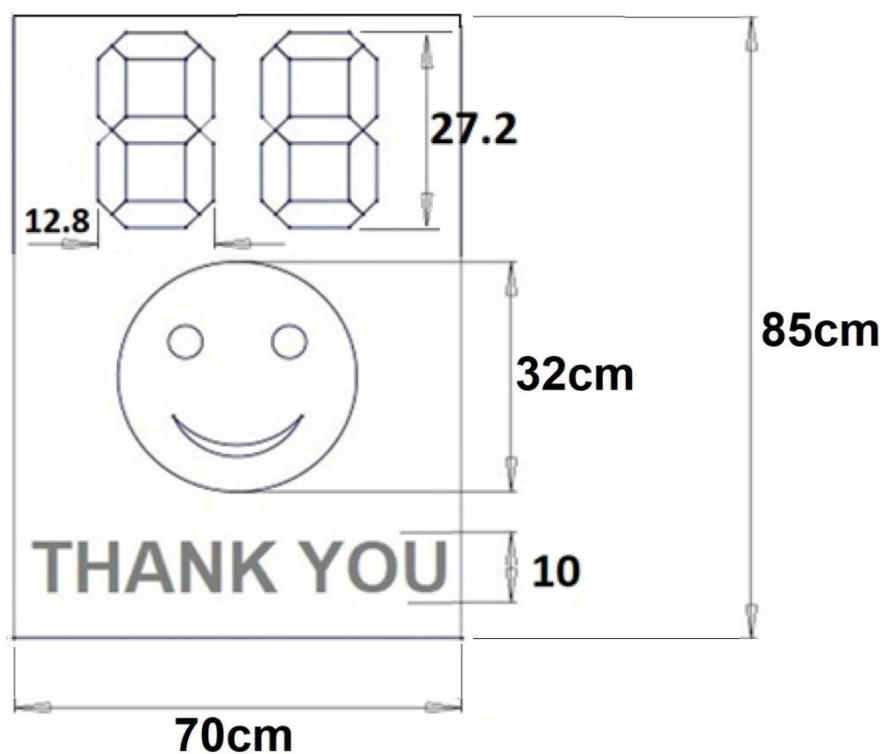
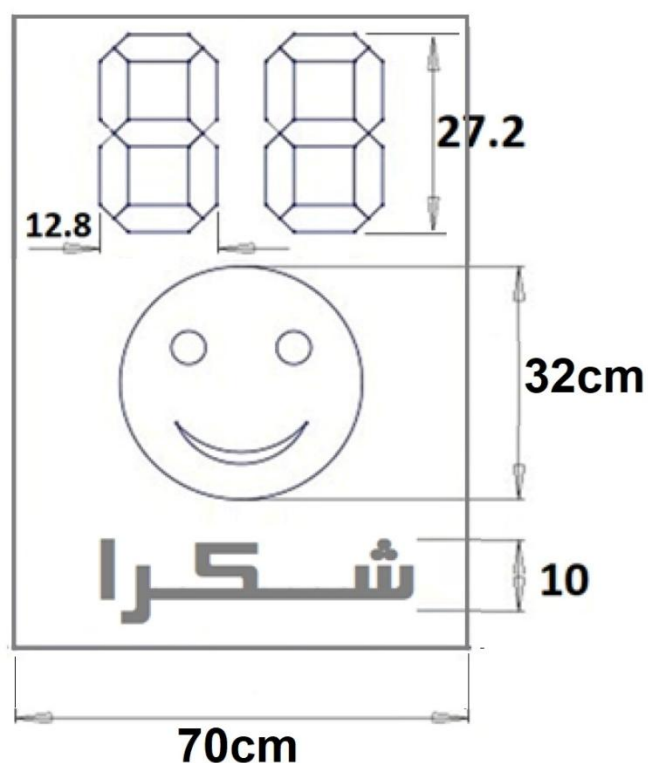
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Dimension



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