



# MTP Traffic Sign



## Active day and night

Design and Produce in UAE(Manufactory)



**Yours Speed Radar  
with Simple Emoji Face  
& Reflective Speed Sign**

Model Number: SS60173  
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 : 60*173*15.5cm
<b>Weight</b>	40Kg
<b>Body Material</b>	Aluminum Black & White Color Electrostatic Powder Coated (MTP Brand)
<b>Solar Power</b>	50 Watts, Life time more than 20 years
<b>Battery</b>	Internal 12 volt, 18 Ah, sealed lead acid
<b>Red Speed Display</b>	Upper with 2 digit 7 segment LED Without any glass sheet (MTP Brand)
<b>Green Speed Display</b>	Lower with 2 digit 7 segment LED Without any glass sheet (MTP Brand)
<b>LED Quantity</b>	196pcs Red + 55 pcs face 196pcs Green + 60 pcs face
<b>LED Life</b>	More than 100,000 Hours
<b>Light Luminous</b>	8000mcd
<b>Light Intensity</b>	Automatic regulation light intensity in day and night (day intensity 5 times night)
<b>Radar</b>	CW Doppler device operating in the K-Band (24GHz) (MTP Brand)
<b>Speed Detection Rang</b>	1km/h – 99km/h
<b>Detection Distance</b>	Over than 200m
<b>Response Time</b>	≤5ms
<b>Working Time After Full Charge In Cloudy Weather</b>	8 days
<b>Visible Distance</b>	More than 1000m

### 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)



<b>Angle</b>	150 Degree
<b>Operating Temperature</b>	-20° C to 75° C
<b>Reflective Sheet</b>	3M
<b>Violation Recorder</b>	Ability to Record Violation (Optional)

## Description

**Solar Your Speed Radar Signs** are customizable traffic calming solutions designed to address speeding in high-risk areas.

These LED radar speed signs feature a two digit, seven segment displays and a simple Emoji face Display Module, allowing the speed limit to be set via software. The signs provide clear visual feedback to drivers, displaying a green number and a green smiley face when within the speed limit and a red number with a red sad face when exceeding it.

When a vehicle enters the radar detection zone (approximately 100-200 meters in front of the sign), the microwave radar automatically detects the vehicle's speed and displays it on the sign, encouraging drivers to slow down.

This effective speed feedback system significantly reduces traffic accidents caused by high-speed driving.

MTP's Solar Your Speed Radar Signs are highly visible and serve as a powerful tool to alert drivers to speed zones, helping to prevent injuries and fatalities.

Committed to providing earth friendly technologies, MTP offers robust solutions to enhance road safety.

Contact us today to learn 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**  
**www.mtpTraffic.com**



## Mechanical Specification(MTP Brand)



### Solar Your Speed Radar Sign Specifications

- **Body Material:** 1.2 mm Aluminum Sheet
- **Frame:** Aluminum Profile with Custom Design
- **Frame Dimensions:** 2\*15\*0.2cm
- **Color Finish:** Electrostatic Powder Coating, Matte Black
- **Front Sheet Material:** Aluminum with Composite
- **Front Sheet Thickness:** 4 mm
- **Installation Stand:** U-Channel Design, Compliant with UAE Traffic Sign Standards

## LED

### LED Specifications for Solar Your Speed Radar Signs

- **LED Lifespan:** Rated for 100,000 hours, compliant with legal standards for traffic lights and signals
- **Light Intensity:** 8,000 mcd.

#### LED Quantity:

- Green Digit Number: 196 pcs LED
- Green Emoji Face: 60 pcs LED
- RED Digit Number: 196 pcs LED
- RED Emoji Face: 55 pcs LED



### 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

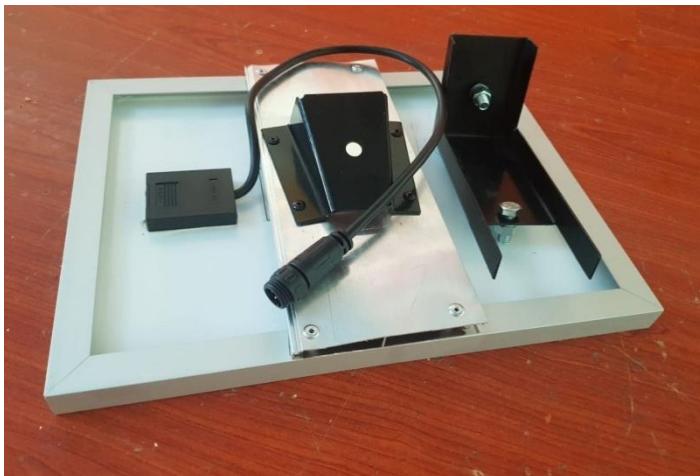


### Battery Specifications for Solar Your Speed Radar Signs

- **Type:** Sealed Lead Acid (SLA)
- **Configuration:** 1\*12V, 18 Ah

**Expected Lifespan:** 5 years

## Solar Panel



### SILICON SOLAR PV MODULE

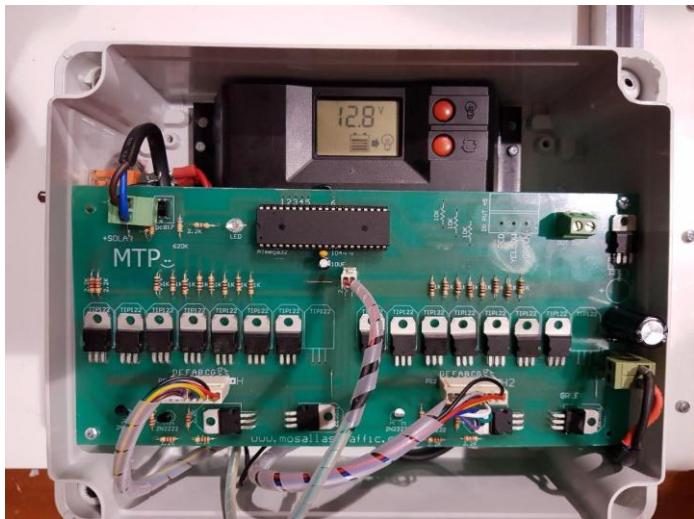
Model	SA- 50P
Pm	50watt
Vmp	18V
Imp	2.5A
Voc	21. 24V
Isc	3.3A
Dimension	50*60*3cm
Max System Voltage	1000V
Test Condition	AM1.5 1000W/m <sup>2</sup> 25°C

### Solar Panel Specifications for Solar Your Speed Radar Signs

- **Power Output:** 50 W
- **Voltage:** 18V
- **Current:** 2.5A
- **Efficiency:** 16%



# Intelligent Microcontroller System(MTP Brand)



## Power Management and Operational Specifications for Solar Your Speed Radar Signs

- **Monitoring:** Measures battery voltage, solar panel voltage, charge current, and related parameters
- **Light Regulation:** Adjusts LED brightness and optimizes power consumption based on charge current and ambient light levels
- **Voltage Stability:** Neutralizes battery voltage fluctuations to maintain consistent LED illumination
- **Battery Protection:** Prevents overcharging and excessive discharging of the battery, with thermal compensation to mitigate heat effects
- **Light Control:** Uses Pulse Width Modulation (PWM) for precise adjustment of LED illumination
- **Customization:** Offers flexible performance through software and hardware tailored to client requirements
- **Operating Time:**
  - Up to 4 days with a fully charged battery under normal conditions
  - Up to 8 days in cloudy conditions
- **Charging Time:**
  - 18 hours for a fully discharged battery while operating
  - 14 hours for a fully discharged battery without operation
- **Light Intensity Adjustment:** Maximum (day) to minimum (night) intensity ratio of 5:1, adjustable 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**

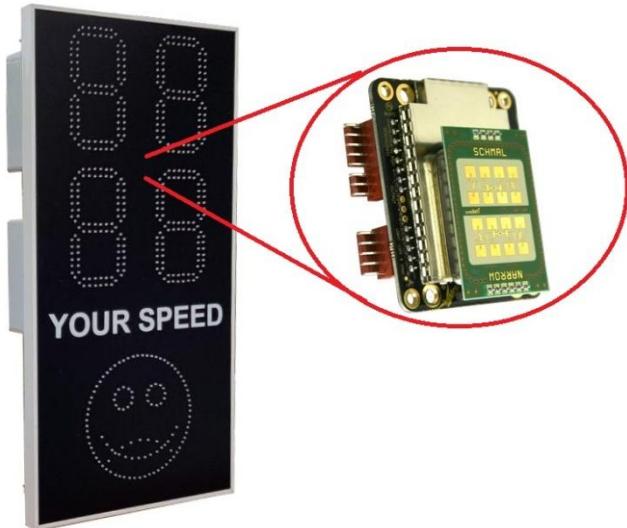
**P.O.Box: 9401, Emirates Industrial City– Sharjah - UAE**

**Email: sales@mtpTraffic.com**

**www.mtpTraffic.com**



## Radar(MTP Brand)



### Radar Specifications for Solar Your Speed Radar Signs

- **Type:** Continuous Wave (CW) Doppler Radar
- **Frequency:** K-Band, 24 GHz
- **Brand:** MTP

## Other Spare Parts (Optional)



6 Inch Hose Clamp



4 Inch Stainless Steel Clamp

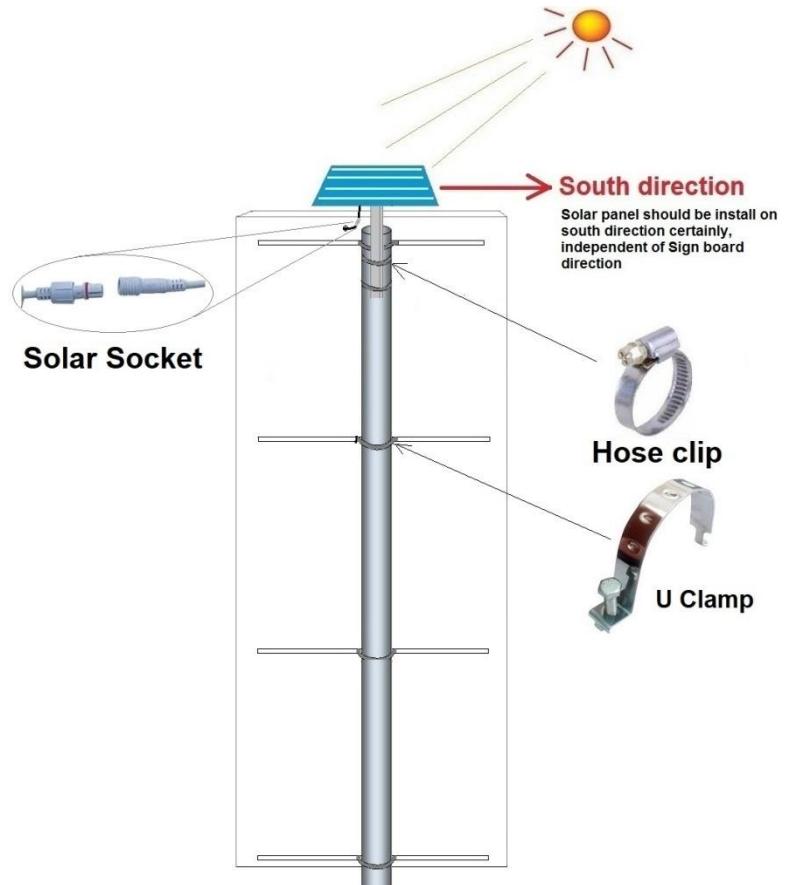


# Installation Guide

## 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,



## 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)

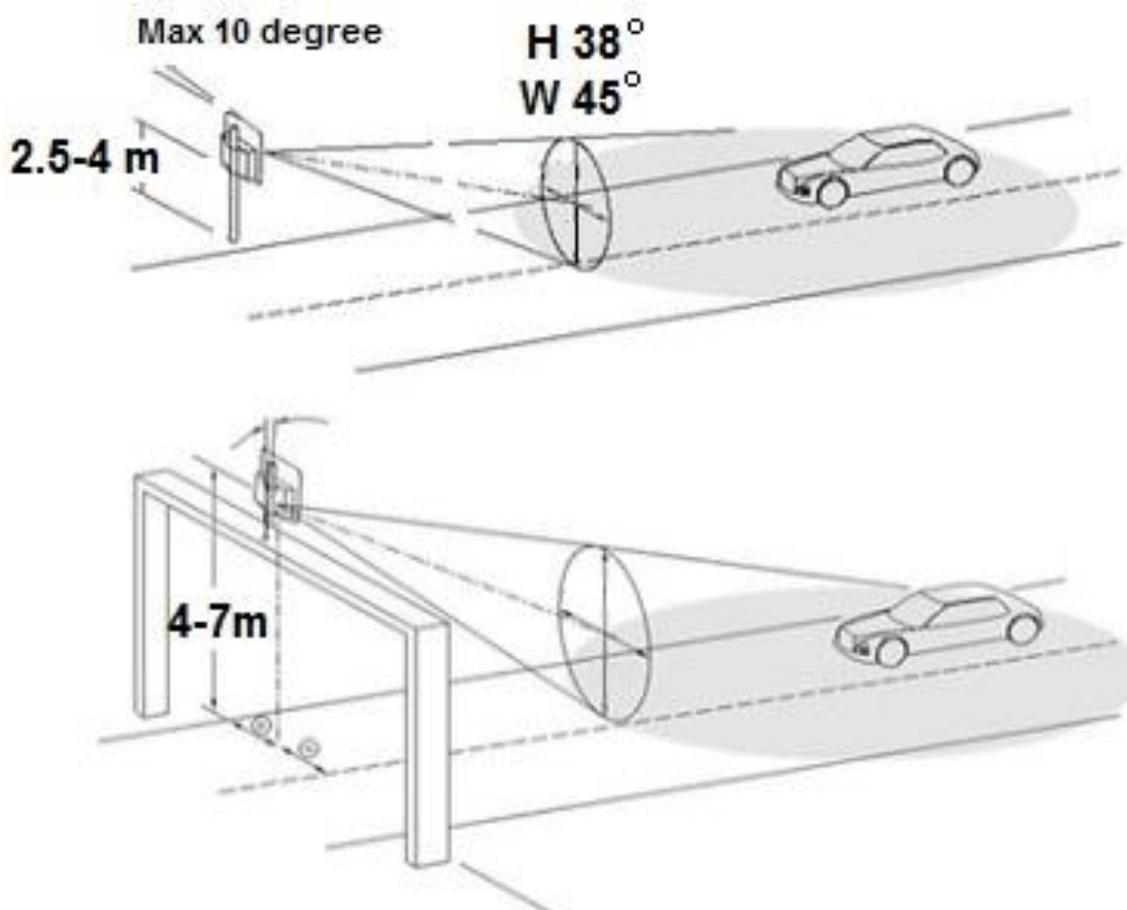


## Note

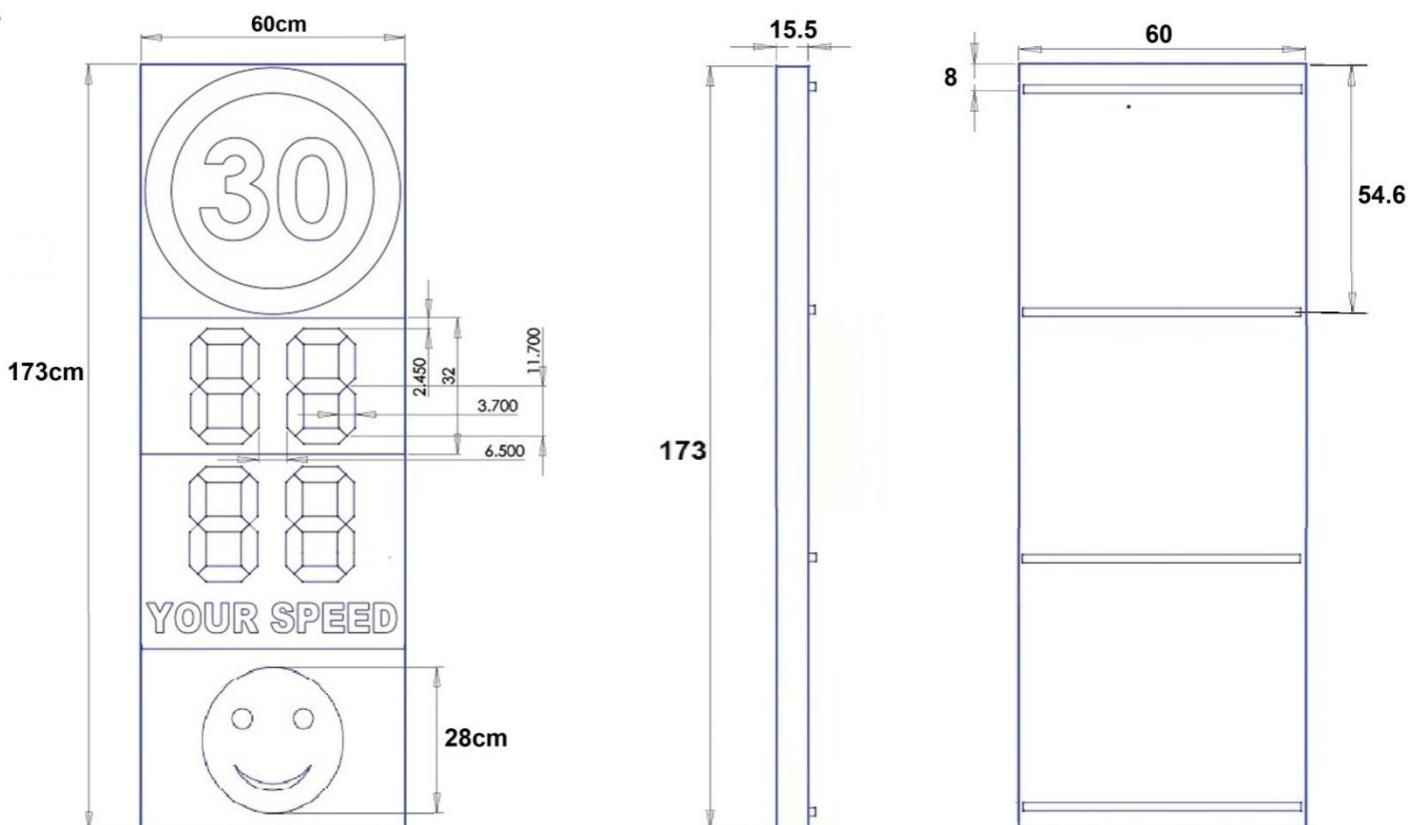
Usually Your Speed Sign is fixed on the side of road, left or right.

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.



## 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

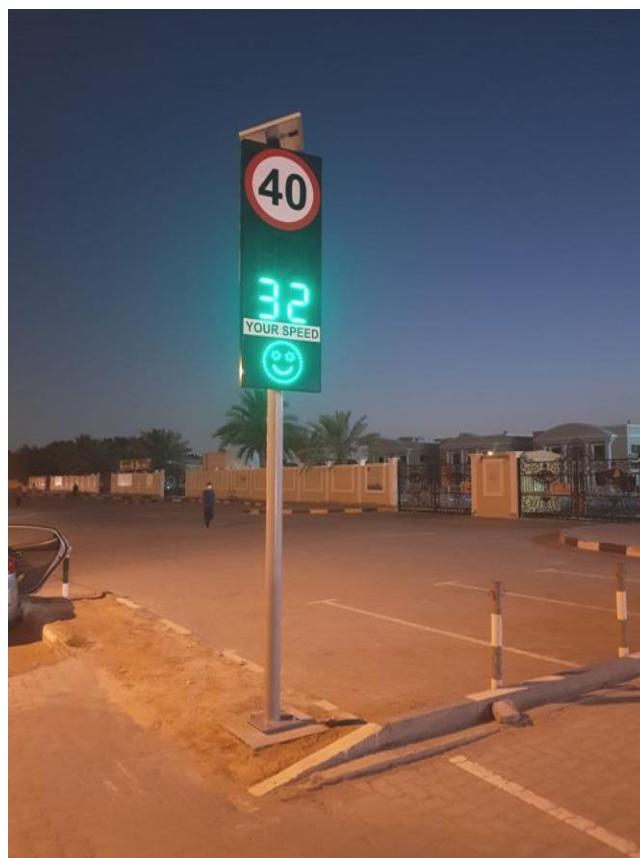
Tel: +971 6 55 2 99 15   Fax: +971 6 55 2 99 36   Mob: +971 56 78 56 255

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

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

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





## 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**

**www.mtpTraffic.com**

