



Quotation

Date: 8/4/2026

1325 Cobb International Dr
Suite 113
Kennesaw, GA 30152

PROPOSED BY:
Name: Nick Angel
Phone: (678) 965-4814 Ext. 114 M: (678) 951-7781
Email: angel@radarsign.com

Cloud Admin:
Phone:
Email:

PROPOSED TO / BILL TO:

2x600 TWN-Irvington-VA

SHIP TO:

2x600 TWN-Irvington-VA

Irvington, VA 22480

(804) 438-6230

nelson@irvingtonva.gov

Justin Nelson

Irvington, VA 22480

(804) 438-6230

nelson@irvingtonva.gov

Justin Nelson

Account

Address

City, ST, Zip

Phone

Email

Attention

P. O. NUMBER

TERMS

LINE #	QTY	PART #	DESCRIPTION	PRICE EACH	TOTALS
1	2	TC-600 S	Solar Power Radar Sign 13" Full Matrix Display: speeds readable at 600 feet	\$3,695.00	\$7,390.00
			13" LED display - superbright amber with est. 100,000 hour life Two 12V 18 amp hour AGM batteries, provides up to 12 days backup operation K Band radar, meets FCC Part 15 rules, detection range up to 1200 feet "SLOW DOWN" & "TOO FAST" speeder alert messages, plus 3 levels of flashing speeds 3/8" thick Bashplate™ (provides the ultimate in vandal protection of sign) Standard timers allow up to 5 settings per day Possum Switch' allows sign to go dark for 30 minutes if assaulted with force Wi-Fi wireless transmitter, communication range up to 300 feet, No internet required	Included	Included
2	2	600P-Y	YOUR SPEED PLAQUE (30"x24") or YOUR SPEED SIGN(30"x36") 11th Edition MUTCD Compliant Plaque Color Options: Yellow 600P-Y, Yellow/Green 600P-YG, White 600P-W, Orange 600P-O Sign Color Options: Yellow 600S-Y, Yellow/Green 600S-YG, White 600S-W, Orange 600S-O	Included	\$0.00
3	2	AA041	50 watt solar panel, standard, Includes mounting bracket (AA003)	Included	\$0.00
	0		Additional Options		
4	2	AA073	Optional: Heavy Duty Lock for Universal Pivot Bracket TC-600 Only	\$45.00	\$90.00
5	0	AA061	Optional: Simulated Camera Flash & White Strobe	\$100.00	\$0.00
6	0	AA099	Optional: Red/Blue Strobe alert (Police Flash)	\$100.00	\$0.00
7	0	AA100	Optional: Strobe Bundle (Alternating Red/Blue, White Simulated Camera Flash)	\$200.00	\$0.00
8	0	Custom Message	Optional Custom Message Package: 2 lines up to 7 characters	\$300.00	\$0.00
9	0	AA067	Optional: Date/Time Calendar Programmer: (Set operation by date for entire year)	\$100.00	\$0.00
10	0	AC026	Mounting Options: SS pipe clamp set (2) fits to 2.5" to 4" OD (small round pole) Used for mounting sign, solar panel bracket or sign extender bracket (Qty 2 per package)	\$14.00	\$0.00
11	0	AC027	Mounting Options: SS pipe clamp set fits 4" to 6" OD (medium size round pole) Used for mounting sign, solar panel bracket or sign extender bracket (Qty 2 per package)	\$16.00	\$0.00
12	4	AA048	Mounting Options: Universal Bolt Mounting Kit - Used on square post or U-Channel post. Qty 2 per pack	\$6.00	\$24.00
13	2	StreetSmart	Optional: StreetSmart Data Collection Lifetime license (per sign) 35 charts, graphs, and tables included. Provides weekly, daily, hourly, and 1/2 hour data on # of vehicles, # of speeders, average speeds, peak speeds, 50th & 85th percentile & more. Extended 30 day charts included for trend analysis. No recurring fees. Required to access traffic data.	Included	Included
	0		Cellular/Cloud Connectivity		
14	0	RS-MODEM-1	Access to Cloud Service for remote access and programming of radar speed sign and/or beacons. Recurring fee per device, per year. This part # is a 1 year cellular service agreement. Max terms are 2 year agreement.	\$400.00	\$0.00
15	0	RS-MODEM-2	Access to Cloud Service for remote access and programming of radar speed sign and/or beacons. Recurring fee per device, per year. This part # is a 2 year cellular service agreement. Max terms are 2 year agreement.	\$800.00	\$0.00
	0		Additional Solar Upgrade Panel Options		
16	0	RP013	Upgrade to 85 watt solar panel (add AA002 mounting bracket to quote)	\$125.00	\$0.00
17	0	AA002	Required Mounting bracket for 65 - 80 watt solar panels	\$130.00	\$0.00
18	2	RW002	Two year warranty (includes parts & labor and backup batteries)	Included	Included
19	2	SHP-600	Ground Shipping for TC-600 Series	\$175.00	\$350.00
20	1	-	Customer Discount	(\$604.00)	(\$604.00)

Minimum re-stock fee: 15%.

* Quote valid for 30 days. Pricing does not include any international taxes, fees, or duties.

TOTAL US\$ \$7,250.00

Sales Tax Rate: 0.000% \$0.00

Grand Total: \$7,250.00

TOTALS

US State sales tax must be collected unless you provide a sales tax exempt form.

Authorized Signature

Print Name/Title

Date



Certified Quality System
ISO 9001:2015



100% MUTCD Compliant
Radar Speed Signs



Proudly Engineered &
Manufactured in the USA

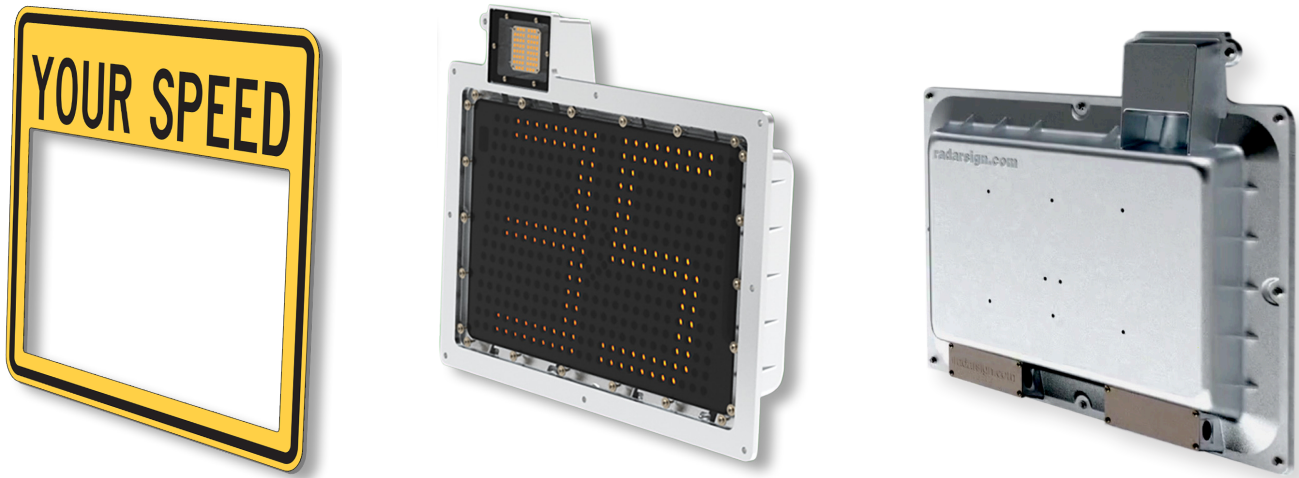
TC-600
**RADAR SPEED
SIGN SERIES**

SPECIFICATIONS



TC-600 RADAR SPEED SIGN SERIES

SPECIFICATIONS



RADAR SPEED SIGN

LED Display	13" Tall digits visible up to 600 feet; Ideal for road speeds 5 mph – 60 mph. Super bright amber LEDs in full matrix LED design with adjustable brightness.
BeamTech Bashplate™	Bullet-resistant aluminum shield over LED display with integrated reflectors increase pixel fill and amplify LED intensity.
Vandal Resistant Cover	1/4" thick polycarbonate panel over display area that is abrasion, graffiti, and shatter resistant
Blue Blinky™	Radarsign's proprietary blue LED in the center of display; blinks to show the sign is powered and active.
Radar <i>FCC pt. 15 Compliant; No license required.</i>	K Band, Single Detection Doppler Radar Beam: Width: 12°; Height: 24° Vehicle Detection: Up to 1200 feet Speed Detection: 5 – 127 mph (accuracy +/- 1 mph)
Sign Housing <i>IP65, NEMA 4 Compliant</i>	Dimensions: 18.5"H x 26.25"W x 5"D Material: Aluminum (0.1875" Thick) Construction: Non-sealed, ventilated
Equipment Cabinet <i>NEMA 3 Compliant</i>	Dimensions: 18.56"W x 14.19"H x 11.65"D, 22lbs Material: 6061 Aluminum (0.125" Thick) Finish: Silver Powder Coat Security: Type II Lock and Key
Mounting	Stainless steel mounting bracket and hardware included for poles up to 4.5" OD
WiFi Connectivity	The radar speed sign generates its own WiFi signal. This enables management of the sign via smartphone, tablet, or laptop. Software updates are delivered Over-the-Air (OTA) directly to the sign.
Operating Temp.	Minimum: -40°F; Maximum: 160°F
Weight	Solar Model: 41 lbs (67 lbs with batteries) AC Model: 41 lbs
Standard Scheduler	Allows the user to program the radar sign to operate on a recurring weekly schedule. Equipped with 4 customizable, recurring weekly events. Includes a default setting to manage the sign's behavior when none of the 4 events are activated.
Warranty	Two years on parts and labor, one year on batteries. Does not cover malicious abuse, theft, or damage due to unauthorized modification.

TC-600 RADAR SPEED SIGN SERIES

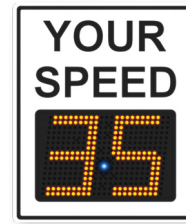
SPECIFICATIONS



MULTI-LANE PLAQUE – 30" X 24"
MUTCD 11th Edition Compliant



MULTI-LANE SIGN – 30" X 36"
MUTCD 11th Edition Compliant



RS LEGACY SIGN – 28" X 33"



DISPLAY FEATURES

Stealth Mode	Sign display appears inactive to drivers while continuing to collect traffic data.
Possum Switch™	Sign 'plays dead' for 30 minutes when sustaining force. Stops or reduces the length/severity of vandalism attempts.
Max Speed Cut Off	Reduces 'sign racing' by the speed display appearing inactive at user determined high speed.
Display Flash Rates	Slow: 75 fpm (1.25 Hz) Fast: 150 fpm (2.5 Hz)
Message Alerts	SPEED, SLOW DOWN, TOO FAST, Enhanced Font (Bold)

POWER OPTIONS

SOLAR		AC	
Solar Panel	Standard: 55w Optional Upgrades: 85w, 100w, 120w	Power Supply	Hard wire to 100 VAC – 240 VAC
Backup Power Supply	Dual 12V 18 A/H AGM batteries support up to 12 days of backup.	Power Consumption	< 2.0 amps (24w) at maximum display intensity and < 0.5w in idle mode
Power Charge Log	Logs solar output and battery charge status Accessible via WiFi or cellular	Circuit Breaker	Multi-circuit; 10 amp fuse

OPTIONAL ADD-ONS

Advanced Scheduler	Web based interface accessed via WiFi on a browser. Features multi-year programming scheduler. Controls radar speed sign and display content.		
StreetSmart Data and Reporting <i>No Recurring Fees</i>	One-time lifetime license fee per sign. Includes 35 customizable charts and graphs. Users can view and download radar-recorded traffic data.		
Radarsign Cloud™ <i>with Cellular Connectivity</i>	Modem built into the sign enables cloud access for remote management. Available in 1 or 2 year agreements. Enables uploads of StreetSmart traffic data to cloud* <i>*StreetSmart data license required</i>		
Custom Messaging Package ⚠️ <i>WiFi-Only</i>	Create custom display messages. Allows for 2 text lines, 7 characters each. Includes all message alerts Managed with Radarsign's Advanced Scheduler.		
Message Alerts <i>Included in the Custom Messaging Package. Available for individual purchase if the package is not selected.</i>	SCHOOL ZONE SHARP CURVE Left Chevrons (< <) Right Chevrons (> >)	Smiley Face THANK YOU – ⚠️ <i>WiFi-Only</i> FINE \$XXX – ⚠️ <i>WiFi-Only</i>	
Strobes <i>Available for individual purchase.</i>	Simulated Camera Flash & White Police Flash (<i>Alternating Red/Blue</i>) Strobe Bundle (<i>Police Flash and White Simulated Camera Flash</i>)		



1325 Cobb International Dr NW, Suite 113, Kennesaw, GA 30152

radarsign.com | info@radarsign.com | 678-965-4814

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Solar Powered Flashing LED Traffic Signs

Roadway Signs has partnered with all of the right people to bring affordable, reliable, and easy to install solar powered flashing LED traffic signs to cities and counties nationally. With over 20-years of LED lighting technology experience, Roadway Signs is a one-stop-shop for customers.

Equipment, service and installation is seamless with a dedicated sales representative available throughout the process. We value our customers.

We Specialize in Quality



BS EN 12899-1:2007 CLASS RA1

- Non-critical traffic signs
- Engineer Grade Sheeting (EGP)
- Class RA1 reflective pressure
- Graffiti guard options available
- .063 and .080 aluminum

BS EN 12899-1:2007 CLASS RA2/R2

- High Intensity Prismatic Sheeting (HIP)
- Traffic signs/work zone devices
- Improved long distance and nighttime visibility
- Reflective return of at least 22%

BS EN 12899-1:2007 CLASS R3A, R3B, R3C

- Diamond Grade Prismatic Sheeting (DG3)
- Reflective return of at least 58%
- Higher visibility for critical traffic sign visibility
- Long lasting lifetime value

Our Products

Solar Power LED Technology

- LED Lighting is brighter than most halogens
- They are more efficient than all halogens
- Solar Power LED lighting is 100% the most cost effective, sustainable traffic sign option
- Solar Power works even on a cloudy day
- LED signs improve community safety

EGP Traffic Signs

- Engineer grade prismatic reflective sheeting
- High visibility and all weather performance
- Increased community safety

Sign Posts

- Variety of sign post options including: I-Beam, Round, Square, U-Channel, with installation option



Contact Us



sales@roadwaysigns.com

GB, DOT, MUTCD, ASTM, BS EN, OSHA

Solar Powered Flashing LED Traffic Signs

We Specialize in Quality

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**ROADWAY
SIGNS**



Sign Installation

Roadway Signs works with everyone from engineers to city managers, and all the staff in-between.

If you don't already know what you're looking for, there are eight different categories of roadway signs. Each sign has unique requirements on size, font, border or outline, shapes, and more.

Our Sales and Installation Professionals help customers find the right direction if they are unsure.

Installation is easy at Roadway Signs! We work with qualified installation specialist to ensure that safety is a priority when transitioning to LED flashing traffic signs.

SAFETY - QUALITY - VALUE ROADWAY SIGNS



REGULATORY



WARNING



GUIDE



SERVICES



CONSTRUCTION



RECREATION



SCHOOL ZONE



INCIDENT

SOLAR LED TRAFFIC SIGNS

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**ROADWAY
SIGNS**

1

RED

Regulatory. Mandatory. Prohibitive.

Examples: Stop, Wrong Way, Do Not Enter, Yield

2

ORANGE

Construction. Maintenance. Closures. Road Limitations.

Examples: Roadwork Ahead, Workers Ahead, Road Closed, Shoulder Work, Uneven Pavement, Work Zone

3

YELLOW

Advisory. Warning.

Examples: School Crossing, School, Lane Ending, Sharp Turn Ahead

4

FLUORESCENT YELLOW GREEN

High Emphasis on Area Pedestrians

Examples: schools, Bicycles, Playgrounds, and School Bus Stop

5

PINK

Incident Management

Examples: Motor Vehicle Accident, Oil Spill

6

WHITE

Regulatory.

Examples: Speed Limit, Right Turn Only, Highway Marker

7

GREEN

Guidance. Directional.

Examples: City. County. State.

8

BLUE

Public Services

Examples: Hospital, Parking

9

BROWN

Recreational. Public Interest. Historical. Landmark.

Example: National Forest

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ROADWAY
SIGNS

SOLAR POWER FLASHING LED RADAR SPEED SIGN



ROADWAY
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DISPLAY DIMENSIONS

- **MIN 4" Digital Display**
 - Static "Your Speed" Text
 - Ultra Low Power Consumption
- **MID 6" Digital Display**
 - Static "Your Speed" Text
 - Ultra Low Power Consumption
- **FULL 15" Digital Display**
 - Static "Your Speed" Text
 - Ultra Low Power Consumption

SOLAR BATTERY

- Ultra Low Power Consumption
- Solar Compatibility
- Cloud Ready
- Battery Backup
- Universal Mounting
- Trailer Compatibility
- Dolly and Hitch Compatibility
- Assurance Warranty

LED VARIATIONS

- **Variable LED Mode**
 - **Stealth**
 - Collect Baseline Traffic Data
 - **Speed Alert Strobe**
 - Program Strobe at Speed Threshold

SIGN PLATE

- **MIN 30" x 30"**
 - Conventional
 - Single Lane Road
- **MID 36" x 36"**
 - Conventional
 - Multi-Lane Rd and Expressway



Installation

Solar Power LED Technology

- MUTCD section 2A.07 and 2A.08 compliant
- High visibility, low power consumption
- Solar powered with battery backup, no AC power required
- Installs easily onto any new or existing sign post
- Options: Continuous 24/7 Flashing, Programmable Timer, or Wireless Push-button
- Fast, easy installation, low maintenance

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SOLAR POWERED FLASHING LED STOP SIGN



ROADWAY
SIGNS

MUTCD SIZE OPTIONS

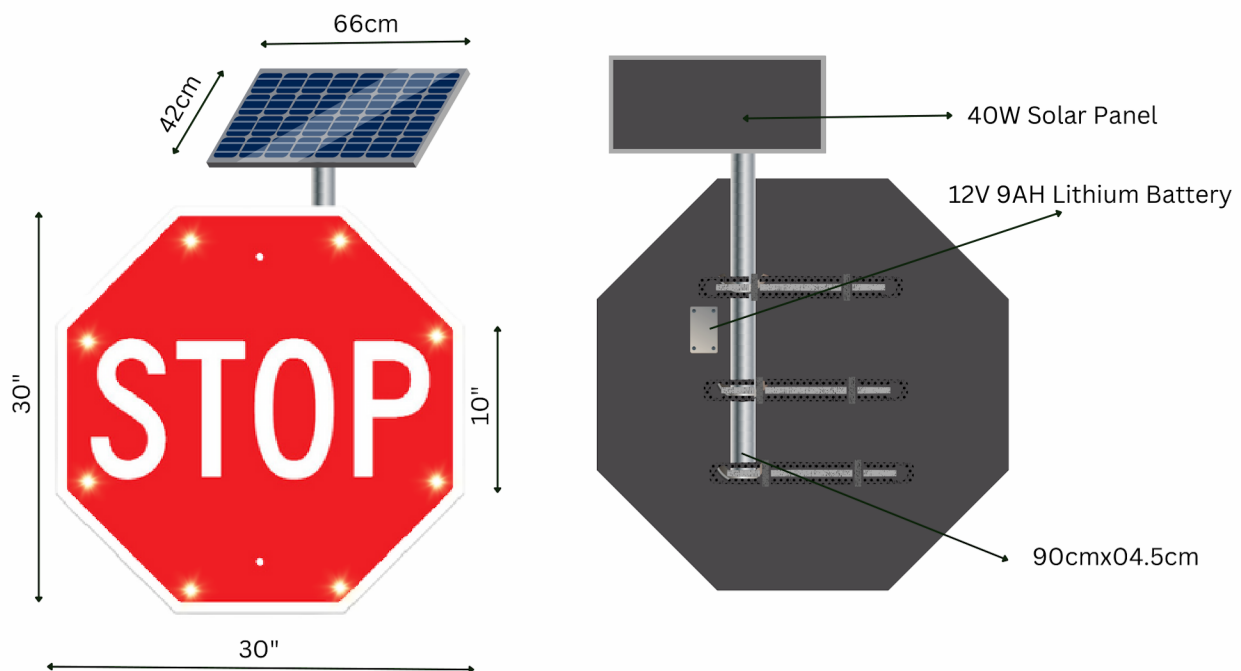
- **MIN 30" x 30"**
 - Conventional
 - Single Lane Road
- **MID 36" x 36"**
 - Conventional
 - Multi-Lane Rd and Expressway
- **OVR 46" x 48"**
 - Oversized
 - Special Application

VISIBILITY RATING

- **Reflective Sheeting**
 - Functional Day or Night
- **Low Power LED technology**
 - Ensures ongoing compliance
- **Highway grade**
 - .080 aluminum
 - construction is weatherproof
 - highly reflective
- **LEDs automatic dim**
 - timed dimming to reduce glare for motorist

SOLAR OPTIONS

- Solar Powered
- Off-grid power generation
- Full charge = 288 flashing hours
- Automatic evening LED dimming
- High intensity LED unison flash one per second
- Activation: Continuous 24/7
- Programmable Timer, or Wireless Push



Installation

Solar Power LED Technology

- MUTCD section 2A.07 and 2A.08 compliant
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- Solar powered with battery backup, AC power available, but not required
- Installs easily onto any new or existing sign post
- Options: Continuous 24/7 Flashing, Programmable Timer, or Wireless Push-button
- Fast, easy installation, low maintenance

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SOLAR POWERED FLASHING LED CROSSWALK SIGN



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MUTCD SIZE OPTIONS

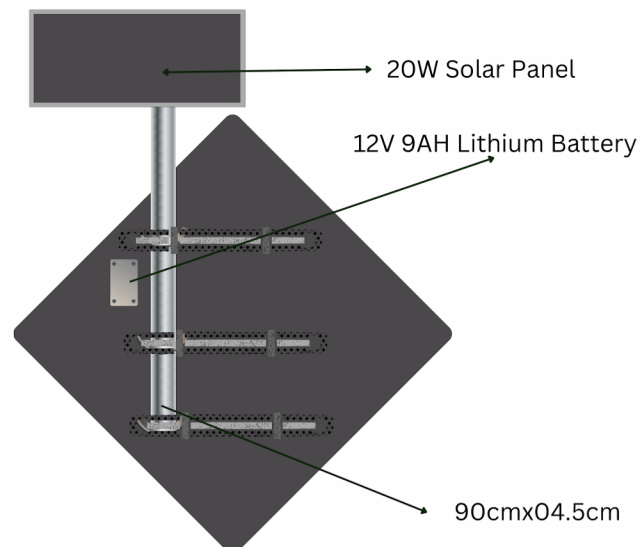
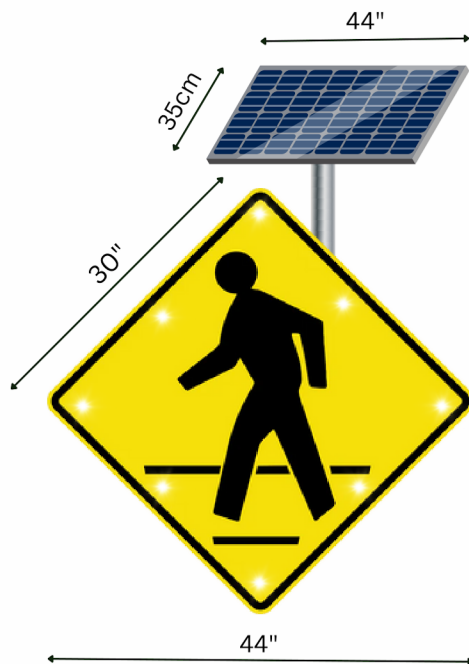
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International Safety



ROADWAY
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MIXED BUNDLE DISCOUNT ELIGIBLE
STOP SIGN



MIXED BUNDLE DISCOUNT ELIGIBLE
STOP SIGN



MIXED BUNDLE DISCOUNT ELIGIBLE
STOP SIGN



MIXED BUNDLE DISCOUNT ELIGIBLE
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MIXED BUNDLE DISCOUNT ELIGIBLE
STOP SIGN



MIXED BUNDLE DISCOUNT ELIGIBLE
STOP SIGN



MIXED BUNDLE DISCOUNT ELIGIBLE
CUSTOM SIGN



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**ROADWAY
SIGNS**

HOW TO REACH US



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720-244-2001



sales@roadwaysigns.com



Aurora, Colorado, USA



Call for Custom Sign Information

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ROADWAY SIGNS

Radar Speed Sign User Manual



To ensure the proper use of this product, please read this instruction manual carefully and keep it in a safe place.



1 PRODUCT INTRODUCTION

Radar speed signs are mainly deployed on highways, general roads and accident-prone road sections. Through real-time radar detection and vehicle speed feedback, it can effectively strengthen traffic control and timely warn drivers to slow down. This humanized intervention method can guide drivers to consciously control speed, thus effectively preventing traffic accidents.

2 FUNCTIONAL FEATURES

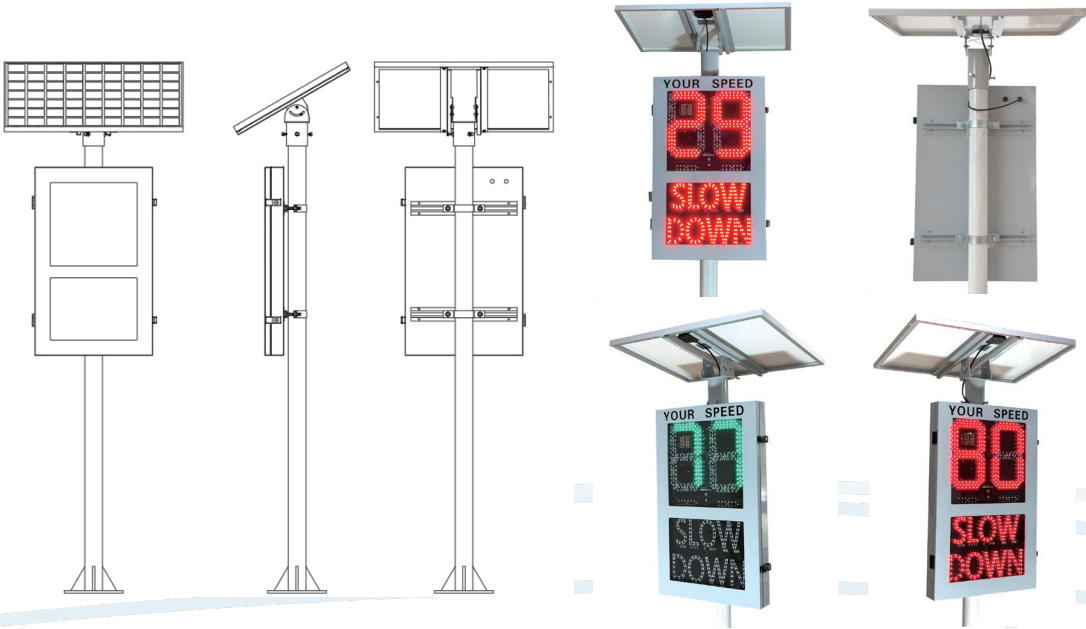
- Real-time speed warning: dynamically capture and clearly display the speed of passing vehicles, effectively reminding the driver to control the speed.
- APP intelligent configuration: Say goodbye to tedious on-site debugging, and use Android /IOS mobile phone to flexibly set all parameters such as speed limit value, brightness, display mode, etc. Easy data acquisition: Support mobile APP or U disk to directly export speed records, providing convenient data support for road section analysis.
- Easy installation and maintenance: integrated design, compact structure, greatly simplifies installation and post-operation and maintenance work.

3 TECHNICAL PARAMETERS

Category	parameter item	Specifications/Instructions
Product Information	Model	SP-2-AL-80x50-S-40
Radar system	Radar frequency	24GHz
	Radar accuracy	< 2Km/h
	Radar detection range	200 meters
	sensitivity	0-100 adjustable (100 is the most sensitive, default 100)
display system	visual distance	≥ 200 meters
	display speed	Two people: up to 99.
	Display unit	MPH
	minimum display speed	1
	Speed display rules	Not speeding: green numbers; speeding: red numbers, text
	Low speed limit value	Below this value, red is displayed (default 0, not enabled, used to disable low-speed sections).
	Overspeed limit value	Exceeding this value displays red (default 40).
	Low speed shielding value	Speed below this value is not displayed (default 5, used to filter pedestrians)
	High speed shielding value	Speed higher than this value is not displayed (default 0, not enabled)
	delayed display time	When no speed is detected, continue to display the previous speed (default 1 second)

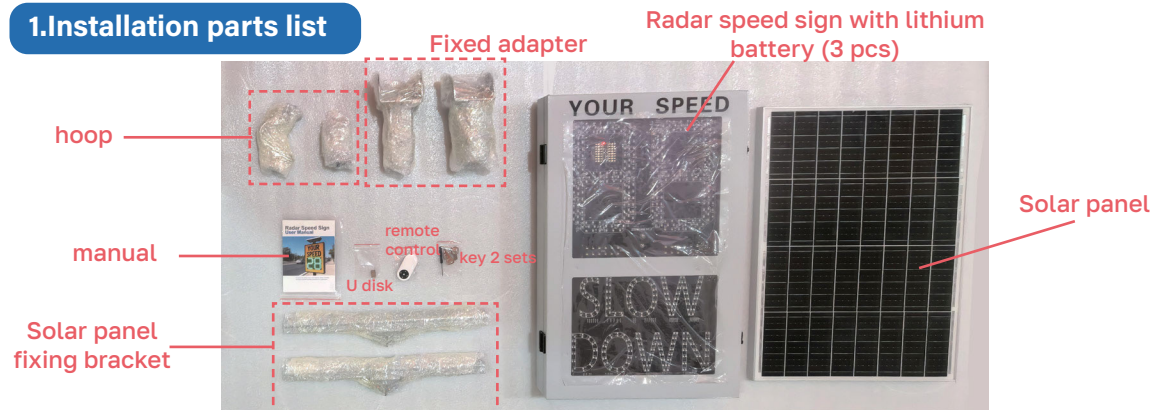
Category	parameter item	Specifications/Instructions
display system	Daytime brightness level	1-10 levels adjustable (default 8 levels, light sense adaptive)
	Night brightness level	1-10 levels adjustable (default 2 levels, light sense adaptive)
	correction factor	Speed correction display value = measured value x coefficient (0.5-1, default 1.0)
	Red light speeding prompt method	always on (default), flash, normal flash, slow flash
	White light speeding prompt method	Fast flashing (default), always on, off
Power supply system	solar panel	18V80W
	lithium battery	12V20AH *3 pcs
	Overall power	≤ 10W
	power supply duration	More than 10 days
Control and configuration	Mobile APP configuration	Supports Android, IOS (configurable parameters and reading speed logs)
	Remote control configuration	Bluetooth remote control, connection distance ≤ 20 meters
	Onboard key configuration	Support SET/ADD button to directly configure parameters
	Velocity mode	come and go
Data and communication	number of time slots	Ten
	Mobile APP reading log	Support exporting the speed data of the previous month
	U disk data export	Support U disk storage, CSV format, arranged by time, one file per day
structural parameters	Signage size	500X800x80mm
	sign weight	16Kg
Environmental requirements	Working environment temperature	-20 ℃ ~ + 70 ℃

4 PRODUCT RENDERINGS



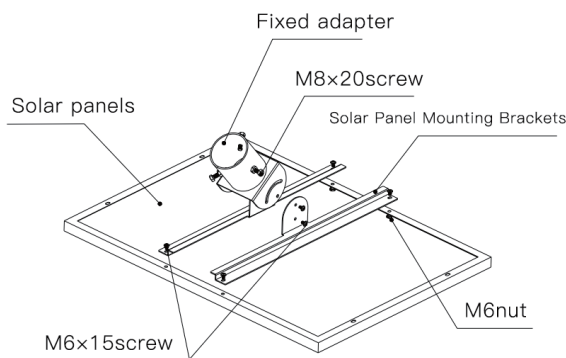
5 INSTALLATION INSTRUCTIONS

1.Installation parts list



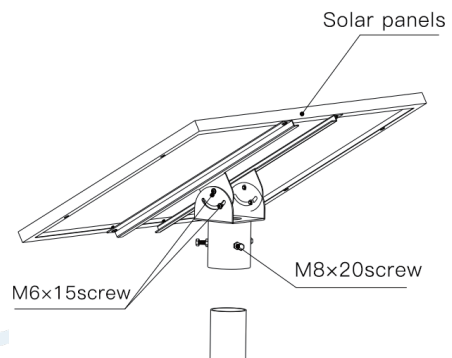
Packing box sub-item	widget name	quantity	Remarks
Radar speed sign	LED display screen, radar, main control board, solar controller, lithium battery (3 pcs), remote control, certificate of conformity, small screwdriver, U disk, manual, key 2 sets	1 set	
Solar panel packing box	Solar panel	1 piece	1 set
Accessories packing box	Solar panel fixing bracket	2 sets	Contains 8 M6x15 screws and 8 M6 nuts
	Fixed adapter	2 sets	Contains 3 M8x20 screws
	hoop	2 sets	Contains 4 M12x65 screws and 4 M12 nuts

2.Installation steps



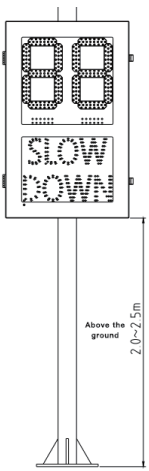
Step 1: Assemble the fixed adapter and bracket: Align the mounting holes of the fixed adapter and the solar panel bracket. Insert M6x15 screws through the holes and tighten them with a wrench to ensure a firm connection between the adapter and the bracket.

Step 2: Install the solar panel on the bracket: Place the solar panel onto its mounting bracket. Align the mounting holes on the rear of the panel with those on the bracket. Insert M6x15 screws through the aligned holes, then fasten M6 nuts onto the other end of each screw. Tighten all screws in sequence to ensure the solar panel fits tightly against the bracket.

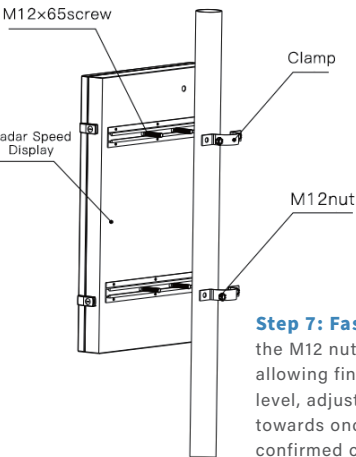


Step 3: Solar panel orientation and fastening: Insert the assembled solar panel (with fixed adapter pre-installed) onto the top of the suitable pole, and adjust the solar panel to face south. Tighten the M8 x 20 screws in turn to ensure that the solar panel fits tightly with the pole.

Step 4: Adjust the angle of the solar panel and tighten it: The best inclination angle = local latitude + 5 °~ 10 °. After confirming that the angle is correct, completely tighten the M6 screws and nuts.



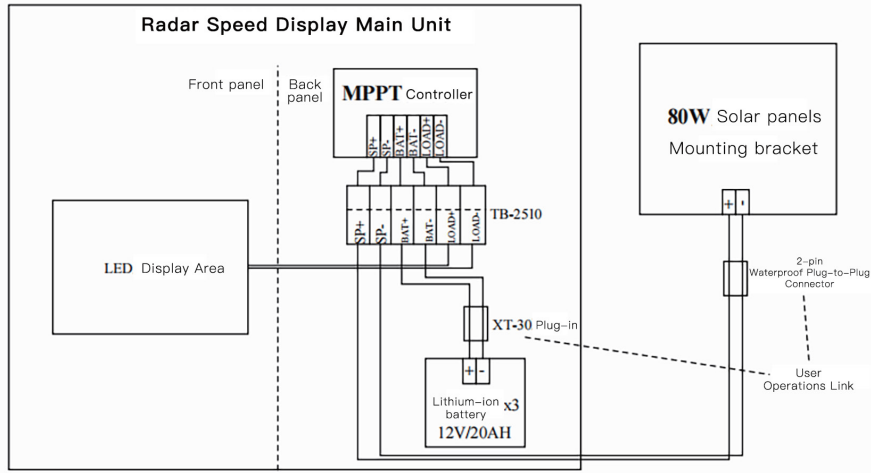
Step 5: Speed card position
installation height: Determine the installation position of the speed screen on the pole according to the site conditions. The recommended installation height is 2-2.5 m from the ground along the lower edge of the display screen. Mark the fixed position of the hoop.



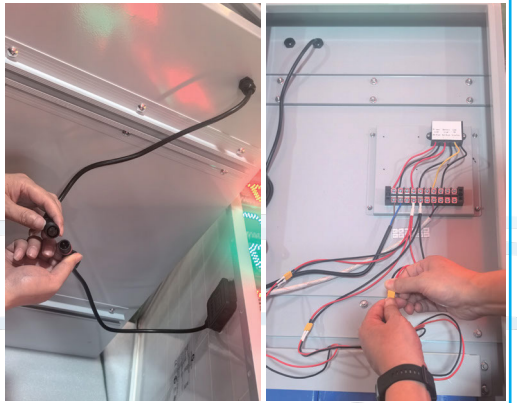
Step 6: Install the hoop: Arrange the hoop around the pole and place it in the marked position, and align the mounting earpieces on the back of the radar speed screen with the ends of the hoop. Take the M12 x 65 screw, penetrate it from one side of the speed screen earpiece, and then pass through the hoop mounting hole. Screw the M12 nut on the other end of the hoop at the end of the screw.

Step 7: Fastening and Adjustment: Slightly tighten the M12 nuts to hold the speed display in place while allowing fine adjustment. After ensuring the display is level, adjust the radar to direct its detection surface towards oncoming traffic. Once the position is confirmed correct, fully tighten the M12 nuts with a wrench.

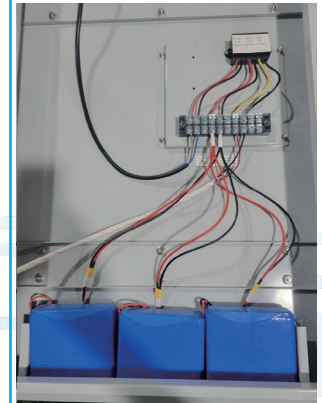
6 WIRING INSTRUCTIONS



1. Lithium battery wiring
Connect the lithium battery to the power system by mating XT30 male and female connectors.



2. Solar panel wiring
Connect to the power supply system by mating the 2-core waterproof male and female connectors led out from the solar panel.

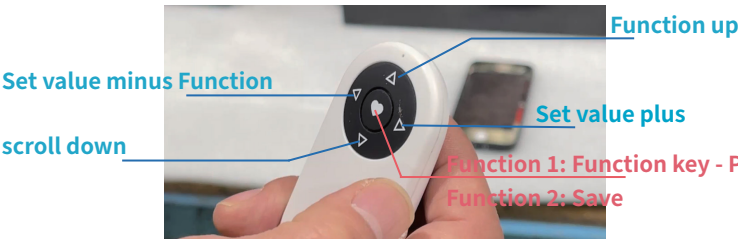


7 INSTRUCTIONS FOR USE

1.Mobile APP Instructions

2.Remote control instructions

► 1.Button Descriptions:



The red indicator light flashes:
the remote control is searching
for the device, and the search
time is about 3s.

The red indicator light is always on:
the remote control is successfully
connected to the device, and
parameters can be set.

► 2.Function Codes (F1-F8):

function code	name	explain	parameter range	default value
F1	Overspeed limit value	If the vehicle speed is lower than this setting value, the display will display a green number; if it exceeds this setting value, the display will display a red number	[1-99]	40
F2	Low speed shielding value	If the vehicle speed is lower than this setting value, the display screen will not display	[1-99]	5
F3	Display unit	0: KMH 1: MPH	[0-1]	0
F4	daytime brightness value	Automatic switching of light perception during the day and night	[1-10]	8
F5	Night brightness value	Automatic switching of light perception during the day and night	[1-10]	2
F6	Speed display time	When the speed is not detected, the previous speed is still delayed for a period of time, and the setting range is 0.5-10 seconds, in units of 0.5s.	[1-20]	2
F7	Red light speeding prompt method	0: Always on 1: Fast flashing 2: Normal flashing 3: Slow flashing (the display time needs to exceed 2S, that is, the F6 setting is above 4)	[0-3]	0
F8	Speed screen switch	1 on 2 off (speed value is no longer displayed)	[1-2]	1

► 3.How to use the remote control

1. Press the Power/Save button to wake up the remote.
- 2.Press the Up ↑ or Down ↓ buttons to navigate to the desired function code (F1 to F8).
- 3.Press the Decrease ← or Increase → buttons to adjust the parameter value.
- 4.After correct adjustment, press the Save button to confirm settings.
- 5.The radar speed sign will show "FF-88-FF-88" and then exit setup mode to resume normal operation.

► 4.Precautions for using the remote control

1. The remote control can only be connected to one device within 20 meters.
- 2.If there is no remote control or button pressed within 15 seconds, the remote control will automatically save and exit the settings;
- 3.The remote control is a Bluetooth remote control. When connecting and using it, you can no longer use the mobile APP to connect at the same time.

3.Instructions for using the onboard buttons

► 1. Key instructions

The onboard buttons are located above the main control board inside the radar speed sign, labeled SET and ADD.

key name	Function Description
SET	Function 1: Settings, enter the settings of the current menu item Function 2: Shift, set bit toggle
ADD	Function 1: Turn the page, turn the menu item down Function 2: Increase, set bit loop to increase

► 2. Function code description

The onboard key function code is the same as the remote control, please check the table above.

► 3. Onboard key setting example

- 1.First press the ADD/SET key to enter the on-board button settings, the LED screen displays the menu item F1, and then press the SET key to enter the setting of the F1 overspeed speed limit value, and the LED screen displays the single digit of the overspeed value flashing;
 - 2.Press the ADD key to increase the cycle, press the SET key to switch to the ten-digit setting;
 - 3.After the setting is completed, press the SET key to complete the setting and enter the menu again, and the LED screen is always on to display the overspeed value;
 - 4.Press the ADD key continuously to select the menu items to be set, press the SET key to enter the settings, and repeat the above operations;
- After the setting is completed, no operation within 10s will be automatically saved. The LED screen displays FF-88-FF-88 in turn, then automatically saves and exits, and starts normal work.

8 PRECAUTIONS

- 1、 The installation location should be protected from tall buildings, trees, and other obstructions to ensure that the solar panels receive sufficient sunlight.
- 2、 The pole foundation needs to be firm to avoid tilting the equipment due to foundation settlement, which will affect the accuracy of radar detection.
- 3、 The mobile APP and the Bluetooth remote control cannot be connected to the device at the same time. Please make sure that the other is disconnected when using one.
- 4、 After the period function is turned on, the device will turn off the radar and enter the low-power mode during non-working hours, and the vehicle speed will not be detected at this time.
- 5、 The speed measurement data is only used for speed tips and statistics, and does not have the function of law enforcement forensics.
- 6、 When not in use for a long time, it is recommended to disconnect the lithium battery and recharge the battery every three months.

	Bluetooth remote control is not disconnected	Disconnect the remote control or restart the device
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► Precautions

Non-professionals should not disassemble it by themselves to avoid danger!

9 QUICK TROUBLESHOOTING OF COMMON FAULTS

fault phenomenon	Possible reason	Processing method
Equipment not working	Battery loss, loose lines	Wait for sunny days to charge or temporarily connect external power supply, check the circuit
The display screen is not on.	Loose line, non-working hours, setting off	Check the circuit, check the set time period, and check the set working status.
Abnormal velocity measurement value	External object interference, direction deviation	Appropriately adjust the radar sensitivity, readjust the installation direction, or set the correction factor appropriately
The brightness doesn't drop at night	The night brightness value is set, and the light sensor is blocked or damaged.	Check the night brightness value and check the external condition of the light sensor
Solar energy does not charge	Loose wiring, dirty solar panel, damaged charging manager	Check the circuit, clean the solar panel, and check the voltage of each interface of the charging manager.

ESTIMATE

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Estimate details
Estimate no.: 1696
Estimate date: 07/28/2026

#	Product or service	Description	Qty	Rate	Amount
1.		Roadway Signs (Div of EpicStar LED LLC)			
2.	Solar Radar Speed Sign Kit (Commercial)	Solar Radar Speed Sign Kit Display color: Green, Red (Yellow is available) Electrical (Solar Type) Power Supply: DC12V 80W Solar Module Battery:12V 40AH Speed Range:1Km/h-250Km/h Working Frequency:24.15GHz Antenna angel:30°*16° Voltage:9-24V Current:40mA@12V Sensor size:69*53*10mm. Output power:21dBm Frame size:800mm*500mm*80mm Parameter setting: Built-in button on board, remote controller, and Bluetooth Data collection and download: Flash disk & app download LED display size:355mm H *370mm W; 265mm H*370mm W Material: Aluminum plate SLOW DOWN: Vehicle exceeds overspeed set point, SLOW DOWN and white strobe light displayed. Reflective film: 3M IV. Waterproof Grade:IP55	2	\$2,800.00	\$5,600.00
3.	Discount	Factory Discount 10% City	2	-\$280.00	-\$560.00
4.	Shipping	Shipping Pallet (Heavy) Lift Gate	2	\$315.00	\$630.00

Accepted dateAccepted by