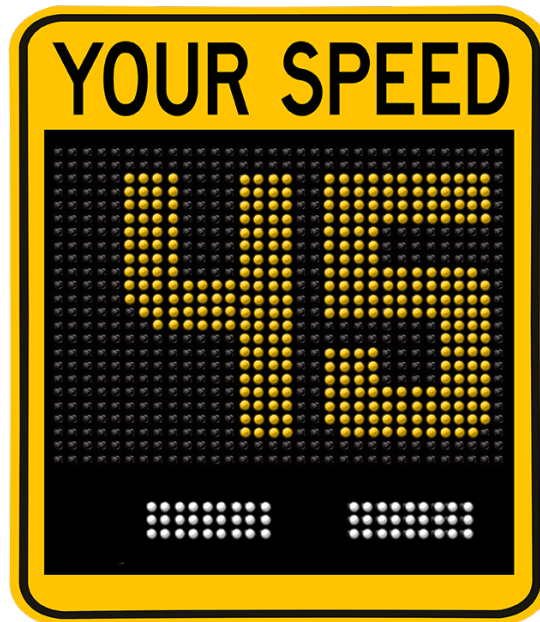


# TRAFFIC LOGIX®

## SAFEPACE® EVOLUTION 15FM PRODUCT SPECIFICATIONS

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### Radar Sign Specifications



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## **SafePace® Evolution 15FM Product Specifications**

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Document created: 3:08 PM on Thursday, April 25, 2019

Document version: 1.2

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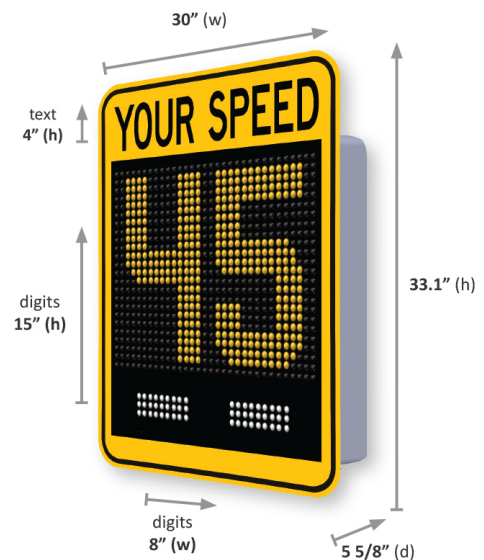
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## DIMENSIONS

- » Digit Size:
  - First digit: 15"(h) x 1.5"(w)
  - Other digits: 15"(h) x 8"(w)
- » Full Size Sign Face Text: Letters 4"(h) spell "YOUR SPEED" fixed message, 1 line
- » Unit alone: 31.625"(h) x 28.25"(w) x 5.625"(d)
- » Unit with "YOUR SPEED" sign mounted: 33.1"(h) x 30"(w) x 5.625"(d)
- » Sign Weight (includes "YOUR SPEED" sign)
  - AC Powered Model: 28 lbs
  - Battery Powered Model: 28 lbs (not including batteries)
  - Solar Powered Model: 28 lbs (does not include solar panel or bracket)
- » Accessories (*optional*)
  - Lithium-ion Battery: 4 lbs
  - Lead Acid Battery: 12 lbs

All Specifications Subject to Change Without Notice



## TECHNICAL SPECIFICATIONS

- » Full Matrix Sign with 3-Digit Speed Display
  - Miles Per Hour (mph): 3-99 mph
  - Kilometers Per Hour (km/h): 5-160 km/h
- » High-Intensity prismatic reflective sheeting on “YOUR SPEED” signs with black colored text
- » MUTCD approved colors and format
- » Operating Temperatures F (C): -40° (-40°) to 185° (85°)
- » Conformal coating on all circuit boards

### Power

- » Power input:
  - 100~240 V AC @ 150 mA
  - 12 V DC (11-14.5 V @ 1A)
  - Built in ambient light sensing and automatic brightness control
  - Wireless battery charge monitoring (via software interface)
- » Power Options
  - AC power input: 100~240 V AC
  - DC (battery) power input: 12 V DC
  - DC (battery) power options:
    - 12V, 18Ah Lead acid batteries
    - 12.8V, 15Ah Lithium-ion batteries
  - Solar power: 90W or 140W solar panel



**NOTE:** Unless the power source is continuous, direct AC/DC power, the sign must be programmed to only display when it detects an approaching vehicle and remain blank the rest of the time (to conserve power). Solar power with battery backup will not, in most cases, provide enough continuous power for the sign to display constantly.

### Radar

- » Internal Radar: Doppler (FCC approved)
- » Model: DF 300
- » Radar RF out: 5 mW maximum
- » Radar f-center: 24.125 GHz center +/- 25 MHz
- » Pickup distance: Up to 1,200 feet
- » Beam angle: 24° (vertical) x 12° (horizontal)
- » Beam polarization: Linear

## Display

- » LEDs: 1590
  - Digits (Amber): 768 LEDs
    - Color: Yellow (590 nm)
    - Viewing angle at 50% IV: 30°
    - Partial Flux (Brightness): 9000 – 22400 Ev,[lux]/LED
  - Digits (Red): 768 LEDs
    - Color: Red(633 nm)
    - Viewing angle at 50% IV: 30°
    - Partial Flux (Brightness): 7100 – 18000 Ev,[lux]/LED
  - Speed Violator Strobe: 54 LEDs
    - Color: White (2700 K – 6500 K)
    - Viewing angle at 50% IV: 150°
    - Luminous Flux: typically 33lm @ 4000 K
    - Luminous Efficacy: typically 176 lm/W @4000 K
- » Ambient light sensor and automatic brightness adjustment

## Enclosure

- » Vandal resistant, lightweight polymer
- » Matte black front for reduced glare and maximum contrast
- » Light gray body to minimize heat absorption
- » Weatherproof, NEMA 4X-12, IP65 level compliant
- » Non-sealed and ventilated

**All Specifications Subject to Change Without Notice**

## COMMUNICATIONS

- » Bluetooth (standard)
- » GSM/GPRS (optional, for use with SafePace Cloud)



## PROGRAMMING

- » SafePace® Pro management software
- » SafePace® Cloud remote management
- » 24/7 365 day programming and scheduling
- » Display Settings:
  - Display On/Stealth Modes (In Stealth Mode, speed is not displayed but data is collected)
  - Display Closest/Fastest Vehicle Speed
  - Digit Flashing Speed Threshold (digits flash above specified speed threshold)
  - LEDs Flashing Speed (for digits)
    - Fast: 1.5 Hz
    - Medium: 1 Hz
    - Slow: 0.75 Hz
  - Message Flashing Speed Threshold (message flashes above specified speed threshold)
  - 4 standard messages: "SPEED LIMIT", "YOUR SPEED", "SLOW DOWN", "TOO FAST"
  - 4 Custom Message slots
  - 1 Custom Animation which can utilize up to four Custom Message slots
  - 2 Speed Violator Strobes (pulsing strobes flash above specified speed)
  - Speed activated, dual-color matrix display (speeds above a specified value are displayed in red)



**All Specifications Subject to Change Without Notice**

## DATA COLLECTION, STATISTICAL ANALYSIS AND REPORTING (OPTIONAL FEATURE)

- » Traffic data collected and stored by location
- » Stealth Mode (captures baseline traffic data with speed display turned off)
- » Download through wireless connection
- » Statistical Reporting & Charts
  - Summary Reports
  - Weekly Reports
  - Period Comparison Reports
  - Full custom reports and charts
  - Reporting Parameters:
    - Average Vehicle Count
    - Total Vehicle Count
    - Average Speed
    - Average Number of Speed Violations
    - Total Number of Speed Violations
  - Other Features:
    - Minimum and Maximum Speed
    - 85th Percentile Speed
    - Counters by Speed Bins
    - 5 units (MPH or KM/H) Speed Bin Resolution
    - Reports print directly or can be exported into CSV format, MS Excel, Adobe Acrobat PDF and HTML
    - Charts may be printed directly or converted into Adobe Acrobat PDF and image formats



**All Specifications Subject to Change Without Notice**



## WARRANTY



### Two Year Warranty

Two year warranty on parts and labor  
excluding damage related to  
vandalism, abuse, and/or theft

Subject to the following conditions, Traffic Logix Corporation (“Traffic Logix”) warrants that the SafePace EV15FM sign (the “Product”) is free from defects in materials and workmanship.

This limited warranty begins on the invoice date of your purchase of the Product and extends:

- » For TWO (2) calendar years on the sign, and
- » For ONE (1) calendar year on the batteries.

This limited warranty extends only to the original purchaser of the Product when purchased either directly through Traffic Logix or through an authorized Traffic Logix distributor and is not assignable or transferable to any subsequent purchaser or end-user. Traffic Logix’s obligation and liability under this warranty are expressly limited to repairing or replacing, at Traffic Logix’s option, defective products. In no circumstances shall Traffic Logix’s liability, whether in contract or tort, under any warranty, in negligence, or otherwise, exceed the amount of the purchase price of the product. Traffic Logix shall not be liable for special, indirect, or consequential damages of any kind. This warranty does not cover damages resulting from normal wear and tear, incorrect installation or operation, use other than for the product’s intended purposes, vandalism, and extraordinary environmental circumstances. Traffic Logix reserves the right to charge for these damages to the product at rates normally charged for repairing such products not covered under this warranty. Damages resulting from any physical changes or alterations made to the product other than Traffic Logix will render this warranty **VOID**. Using any parts or accessories not supplied or approved by Traffic Logix, such as battery chargers, will further render the warranty **VOID**.

Traffic Logix neither assumes, nor authorizes any person to assume for it, any other liability in connection with the sale of the Product, and there are no agreements or warranties collateral to or affecting this limited warranty.

**THE LIMITED WARRANTY SET FORTH IN THIS AGREEMENT IS THE EXCLUSIVE AND SOLE WARRANTY APPLICABLE TO THIS PURCHASE. ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO THE IMPLIED WARRANTY OF MERCHANTABILITY AND THE IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY DISCLAIMED.**

Traffic Logix does not warrant that any of its products will meet or comply with the requirements of any applicable federal, state or local safety code, law, regulation or ordinance (“Applicable Safety Laws”). Buyer acknowledges that Traffic Logix’s products are to be used only in accordance with the attached Conditional Terms of Use and any Applicable Safety Laws. Buyer agrees that there shall be no coverage or benefits of any kind under this limited warranty if it is determined by Traffic Logix that the Product was not installed or used in accordance with the Conditional Terms of Use or Applicable Safety Laws, or if the Product has been

altered in any way by anyone other than Traffic Logix, or if the Product has been subject to any misuse or accident. In addition, Buyer assumes and agrees to indemnify Traffic Logix for all risk, liability or expense that results from any installation or use of the Product that is not in accordance with the Conditional Terms of Use or any Applicable Safety Laws.

### Warranty Replacement Procedure

In order to submit a claim for the repair or replacement of the Product under this limited warranty, proceed as follows:

1. Contact Technical Support. **Do NOT** ship your defective product to Traffic Logix prior to contacting Technical Support.
2. A Technical Support Agent will evaluate the Product to determine if it is defective. You may be required to do some troubleshooting as part of this evaluation.
3. If the Product is defective, then you will need to submit your contact information, and proof of purchase (including the date of purchase), in order to obtain repair or replacement parts.
4. The Technical Support Agent will provide you with a Return Materials Authorization number and instructions on how to have the defective parts repaired or replaced.