

Stop Sign Flashing LED Ring



BRIGHTER | POWER EFFICIENT | FULL MUTCD COMPLIANCE

Maximum recognition. Minimal power.

Designed with MUTCD & Power in mind...

Our next generation Stop Sign LED Ring is engineered to improve driver recognition while minimizing energy consumption. Designed to enhance any new or existing R1-1 STOP sign, it delivers clear, unmistakable border visibility—especially in nighttime and low-contrast conditions—without the complexity of external beacons or high-power devices.

Ideal for: high-risk intersections, rural stop control, and locations requiring enhanced regulatory sign conspicuity.

WHAT'S NEW

- Engineered to the **11th Edition MUTCD**
- Low-profile, lightweight design for easier installation and reduced wind loading
- **Reduced power consumption** optimized for solar operation
- Optimized thermal design for long-term **outdoor reliability**
- **LEDs in each corner** to maintain continuous sign outline and ensure recognition of the STOP sign shape under nighttime viewing conditions (**MUTCD 2A.12-14**)

Highly Visible LED Stop signs

The TrafficCalm LED Ring fully outlines the STOP sign to create a bold, unmistakable visual cue that reinforces regulatory awareness and improves recognition at distance in all environmental conditions.

Retrofittable

Installs on existing or new STOP signs without special fabrication using structural VHB tape or mechanical fasteners (set screws). Designed for fast field installation and simple upgrades to existing infrastructure.

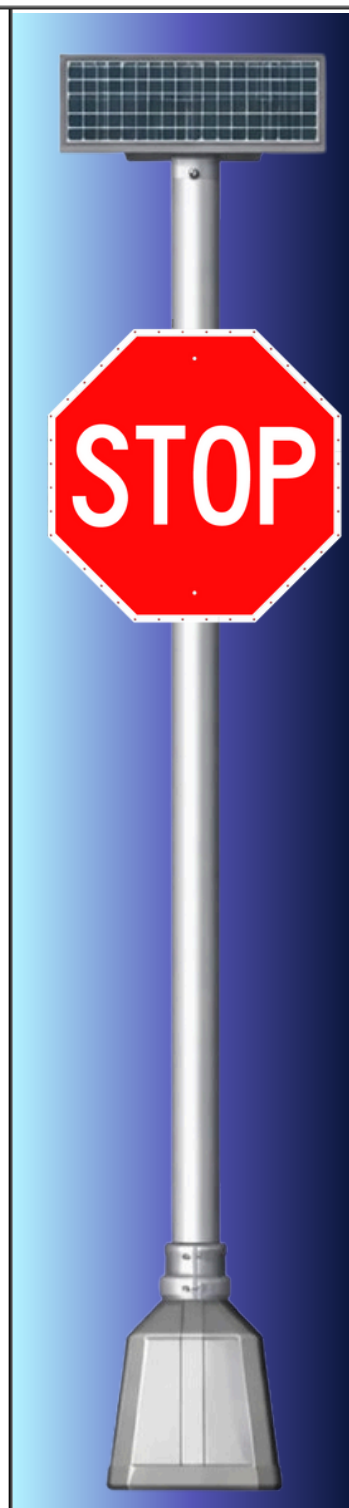
Designed for roadways & harsh weather

epoxy-sealed electronics, high-performance reflective sheeting, and structural mounting integrity.

COMPLIANCE & STANDARDS

Built for regulatory confidence.

- Fully MUTCD Compliant including section 2A.12
- Designed to standard highway sign dimensions and formats in accordance with MUTCD guidance
- Build America, Buy America Compliant
- ISO 9001 Certified Manufacturing



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MODELS & SIGN DIMENSIONS

Static Sign: R1-1 (STOP)

Model Numbers:

- M75-R2424-WR01-M: 24" Ring (61 cm)
- M75-R3030-WR01-M: 30" Ring (76.2 cm)
- M75-R3636-WR01-M: 36" Ring (91.4 cm)
- M75-R4848-WR01-M: 48" Ring (121.9 cm)

Compatibility

- Integrates with all TrafficCalm® Controllers and Collaborators

Illumination

- LEDs configured around perimeter of sign boarder with 1 LED in each corner (Fully MUTCD compliant design)
- LED Pitch: 2.44" (6.2cm) (+/-0.5")
- Viewing Angle: 30°+
- LED Color: Red
- Dimond grade 3 White reflective sheeting applied to ring face. matches border of R1-1 Stop signs
- LED rated lifetime of 100,000 hours

Environmental

- Enclosure: Potted electronics, Open housing
- -29° F to 165° F operating range (-34° C to +74° C)

Construction

- 14 gauge 5052 aluminum construction
- Individually lensed LEDs recessed behind faceplate
- Ring Depth: 0.4" (1.01 cm)
- Ring Width: 0.625" (1.58 cm)
- All wiring is UL 2464 rated

Description

- This item can come as a retrofit kit (AC or Solar controller and LED Flashing Ring) or a complete system including the retroreflective STOP sign

*Static R1-1 sign sold separately

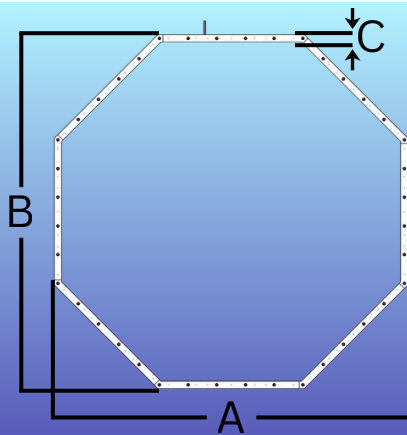
MOUNTING

Standard Mounting Hardware (Included with sign hardware set)

- Flared Leg Brackets (Qty: 2)
- SS Bolts, Nuts, Washers, and Lock Washers for 2.5-3.5" PSST

Warranty

- Warranty: 5-year limited
- Support: Unlimited U.S.-based factory technical support



Part Number	Sign ring size	Ring Length (A)	Ring Height (B)	Ring Width C	LED Count	Light Output (MCD)	Power (Amps)
M75-R2424-WR01-M	24"	24"/61cm	24"/61cm	.625"/1.58cm	32	2,880,000	164mA (824mA Peak)
M75-R3030-WR01-M	30"	30"/76.2cm	30"/76.2cm	.625"/1.58cm	40	3,600,000	340mA (1.7A Peak)
M75-R3636-WR01-M	36"	36"/91.4cm	36"/91.4cm	.625"/1.58cm	48	4,320,000	340mA (1.7A Peak)
M75-R4848-WR01-M	48"	48"/121.9cm	48"/121.9cm	.625"/1.58cm	64	5,760,000	500mA (2.5A Peak)

Max Bright % (100%)