YOUR SPEED 25
YOUR SPEED 35
YOUR SPEED WORK ZONE
YOUR SPEED 125
YOUR SPEED 25

TRAFFICALM™
Division of MOR Manufacturing
S Y S T E M S

Why TraffiCalm?

- UL/ULC listed products available
- ISO:9001 Certified USA based manufacturing facility
- All signs 100% MUTCD compliant
- Vandal resistant designs
- Broadest range of sizes and options in the industry
- Industry leading turnaround from order to delivery
- Unlimited tech support and customer service from our USA facility
- Industry Pioneers in Radar Driver Feedback Technology

Superior components make superior signs.

1 TraffiCalm signs are MUTCD compliant and UL/ULC Listed products are available. They are also manufactured in the USA at an ISO:9001 certified facility.

2 3M™ Diamond Grade™ high visibility prismatic long-life reflective sheeting in colors: white, fluorescent yellow-green, fluorescent orange or yellow.

3 Vandal resistant display cover and housing. Weatherproof sealed NEMA 3R rated enclosure with high impact non-glare, non-permeable polycarbonate cover.

4 Amber colored highly visible LEDs rated for 100,000 hours. Smart signs include "full matrix" displays which can be programmed to display simple graphics or traffic direction messages (too fast, slow down, etc)

5 Modular design for easy installation and service. Every sign comes with either a 2 or 3 year limited warranty.

6 *SafetyCalm™* data collection software is included free with every TraffiCalm smart sign purchase. Bluetooth connectivity makes programming and collection of traffic data very simple and efficient.

7 Every sign comes ready for 110 AC power, or Solar power (power packages are ordered separately) Value signs include a 20W solar package.

TRAFFICALM SYSTEMS
Division of MOR Manufacturing

Contents

STREET series
Radar Driver Feedback signs designed for low speed streets and neighborhoods.

9" Radar Driver Feedback -*Value Sign*
For the budget conscious, this solar powered sign is a great choice to make streets safer. Includes IR remote for sign programming.

9" Radar Driver Feedback -*Smart Sign*
Full matrix display and data collection capability make this a perfect sign for neighborhoods. SafetyCalm™ configuration and data collection software included.

12" Radar Driver Feedback -*Value Sign*
With solar package included, this economical sign is fully operational out of the box. Also includes IR remote for sign programming.

12" Radar Driver Feedback -*Smart Sign*
Full matrix display and data collection capability make this a perfect sign for calming neighborhood traffic. SafetyCalm™ configuration and data collection software included.

PORTABLE series
Driver Feedback signs designed for temporary deployment on streets and roadways.

9" Radar Driver Feedback -*Portable Value Sign*
For the budget conscious, this solar powered sign is a great choice to make streets safer. Includes IR remote for sign programming.

9" Radar Driver Feedback -*Portable Smart Sign*
Full matrix display and data collection capability make this a perfect sign for neighborhoods. SafetyCalm™ configuration and data collection software included.

12" Radar Driver Feedback -*Portable Value Sign*
With solar package included, this economical sign is fully operational out of the box. Also includes IR remote for sign programming.

**12" Radar Driver Feedback - ***Portable Smart Sign*
Full matrix display and data collection capability make this a perfect sign for calming neighborhood traffic. SafetyCalm™ configuration and data collection software included.

ROADWAY series
Radar Driver Feedback signs designed for medium speed streets and roadways.

14" Radar Driver Feedback -*Smart Sign*
Full matrix display and data collection capability make this a perfect sign for calming community roadway traffic. SafetyCalm™ configuration and data collection software included.

15" Radar Driver Feedback -*Smart Sign*
Bright large clean letters with programmable display and data collection capability allow you to calm and track traffic on medium speed roads. SafetyCalm™ configuration and data collection software included.

HIGHWAY series
Radar Driver Feedback signs designed for high speed roads, expressways, and highways.

18" Radar Driver Feedback -*Smart Sign*
Bright large clean letters with programmable display and data collection capability allow you to calm and track high speed highway traffic. SafetyCalm™ configuration and data collection software included.

18" Radar Driver Feedback -*Jumbo Smart Sign*
Full matrix display and data collection capability make this a perfect sign for calming highway traffic. The Jumbo option provides for larger "YOUR SPEED" lettering. SafetyCalm™ configuration and data collection software included.

WORK ZONE series
Radar Driver Feedback signs designed for high speed road construction work zones.

15" Radar Driver Feedback -*Smart Sign*
Bright large clean letters with programmable display and data collection capability allow you to calm traffic in dangerous work zones. SafetyCalm™ configuration and data collection software included.

18" Radar Driver Feedback -*Smart Sign*
Full matrix and programmable display and with data collection capability allow you to calm traffic and customize your message based on construction project changes. SafetyCalm™ configuration and data collection software included.

STREET series

9" Driver Feedback Value Sign

The TraffiCalm Street Series of Radar Driver Feedback Value Signs offers an economical and simple solution to help increase driver speed awareness and road safety. The bright 9" characters can be seen from up to 450' away, and help increase driver speed awareness on the neighborhood streets where so many small accidents occur every year. TraffiCalm Value signs are designed for situations where drivers need to simply be alerted of their current speed but the additional data collecting and screen programming capabilities of TraffiCalm Smart signs is not necessary.

TraffiCalm Driver Feedback Signs are manufactured in the USA in an ISO 9001:2008 certified facility, meeting and exceeding industry standards and state ing requirements. TraffiCalm signs are unmatched durability, accuracy, ease of use and affordability.

Features:
- IR remote for configuration and basic programming
- 100% MUTCD compliant
- Complete 20W Solar package included
- Integrated batteries provide for several days of normal operation on a single charge without the assistance of the solar panel
- K-band (24.15GHz) radar, range 450+ feet.
- Unlimited tech support and customer service from our USA facility for the life of the sign
- Fast delivery- typically ships within 5 days of order
- 3 year limited warranty

Package Includes:
Driver Feedback sign, mounting bracket, 20W solar package, installation and user manual

Part #: M75-009SE-000x

- *Economical*
- *7-Segment Display*
- *Solar Kit Included*
- *Easy Installation*
- *Optimized for 5-25mph roadways*

The 9" Value Sign is also available as a Variable Speed Limit sign with solar power and IR programming. When ordering, select VSL.

#1 BEST VALUE — MOST AFFORDABLE DRIVER FEEDBACK SYSTEM IN THE INDUSTRY

Feature	Specifications
LED and Radar Components	
Speed Display Height	9" high numbers
Configuration	Seven-Segment Display
"YOUR SPEED" Legend	3" high highway gothic font (MUTCD compliant)
LED, 1/2 Cone Angle	Amber (590nM); ½ Angle 15°; Rated 100,000 hours; 20,000 CDA/ M^2, Auto Dimming employed
Amber LED on Axis Intensity	20,000 CDA/SQ meter
Sign Legibility	Viewable range: 750 feet, legible range: 450 feet
Speed Resolution and Range	Min 5 mph, Max 99 mph in 1 mph steps (min 8 kph, max 159 kph in 1.6 kph steps)
Radar Specification and Range	K-band (24.15GHz) direct sensing, license free (FCC part 15 compliant), average range at 450 feet (plus 400' or minus 100' depending on vehicle size)
Materials and Construction	
Chassis Size/Total Weight	18" width x 24" height x 1-7/8" depth, 20 pounds with bracket
Front Face Sheeting	3M™ Diamond Grade™, high visibility prismatic, long life protective sheeting
Sign Face Color	White, fluorescent yellow-green, with additional colors optional
Sign Mounting Construction	1/8" thick aluminum brackets and face, standard 3% tilt bracket configuration, Flat mount brackets optional
Vandal Resistant Construction	Sealed electronics box (ECS) 1/16" thick aluminum enclosure attached to a 1/8" thick mounting plate. The ECS is removable from the chassis as a complete unit.
	3/16" high impact polycarbonate face with high contrast mask, anti-glare graffiti and sunlight resistant
	Provisions for padlocking in place are provided
	Standard DOT powder coat green color with additional colors optional
Electronics Enclosure Rating	Weatherproof, NEMA 3R
Mounting	Quick detachable mount (lockable). Mount capable of being bolted or banded to a 2" Square pole, U-channel pole, 2½ or larger round pole, or flat surface.
Electrical Specifications	
Power Requirements	12VDC, low standby: average day at 8.5W, average night at 1.5W
Voltage Requirements	9V-30VDC, 12VDC Nominal (Battery protection at 11.5VDC and 10.8VDC, startup at 12.3VDC)
Solar Package	Comes complete with a 20 Watt Polycrystalline panel, rack, and integrated TraffiCalm Smart Solar Charger™.
	Integrated 20 AH NiMH battery pack
Power Options	Upgrade to 55 Watt solar panel, optional indoor rated AC battery charger for demo or display
Operating Temperature	Internal components: -34°C to +74°C/-29°F to +165°F
	Ambient environment: -34°C to +60°C/-29°F to 140°F
Programming Specifications	
Programmable Display Features	Min speed to display, over speed, and maximum speed to display
	Display type: actual speed, flashing digits, steady digits,
	Control line for external devices such as beacons
Schedules	Repeating daily: 2 events
Communications	IrDA Compliant Wireless Remote
Warranties	3 year limited warranty; Power options: 2 year limited warranty (excluding batteries)

TRAFFICALM SYSTEMS
Division of MOR Manufacturing

TraffiCalm 9" Driver Feedback Smart Sign

The TraffiCalm Street Series of Radar Driver Feedback Smart Signs offers solutions for increasing driver speed awareness and road safety. The bright 9" characters can be seen from up to 450' away, and help increase driver speed awareness on the neighborhood streets where so many small accidents occur every year. SafetyCalm™ data collection software allows you to gather hard data of traffic patterns and program the sign to help keep streets safer.

TraffiCalm Driver Feedback Signs are manufactured in the USA in an ISO 9001:2008 certified facility, meeting and exceeding industry standards and state testing requirements. The 9" TraffiCalm Smart Signs are UL/ULC listed for electric code compliance. TraffiCalm signs are unmatched in durability, accuracy, ease of use and affordability.

The 9" Smart Sign is also available as a Variable Speed Limit sign with data logging and driver feedback (speed awareness) features. When ordering, select VSL.
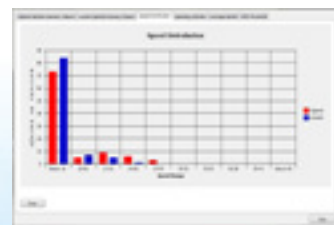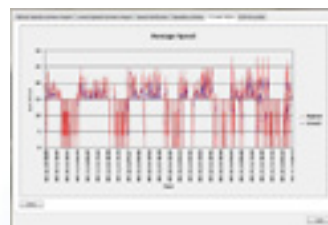
Features:
- Bluetooth remote programming
- SafetyCalm™ Configuration and Traffic Data Collection software included free
- Programmable full matrix display allows the sign to display speed numbers as well as messages like 'SLOW DOWN'.
- UL/ULC listed for simple and code compliant installation
- 100% MUTCD compliant
- Solar or 110V AC ready (power packages sold separately)
- K-band (24.15GHz) radar, range 450+ feet.
- Unlimited tech support and customer service from our USA facility for the life of the sign
- Fast delivery- typically ships within 5 days of order
- 3 year limited warranty

Package Includes:
Driver Feedback sign, mounting bracket, SafetyCalm™ Configuration and Traffic Data Collection Software, installation and user manual.

SafetyCalm™
SafetyCalm™ Configuration and Traffic Data Collection Software allows you to program your sign from your laptop and collect and graphically display traffic data

Part #: M75-9IDFB-000x
- *Full Matrix Display*
- *Solar or AC power options*
- *Optimized for 5-25 mph roadways*
- *Bluetooth wireless communication*

Feature	Specifications
LED and Radar Components	
Speed Display Height	9" high numbers
Text & Emoticon Height	3" high two lines 'SLOW DOWN' text; 9" high 'smile' or 'sad' face emoticon
"YOUR SPEED" Legend	3" high highway gothic font (MUTCD compliant)
LED, 1/2 Cone Angle	Amber (590nM); ½ Angle 15°; Rated 100,000 hours; 20,000 CDA/ M^2, Auto Dimming employed
Amber LED on Axis Intensity	20,000 CDA/SQ meter
Sign Legibility	Viewable range: 750 feet; legible range: 450 feet
Speed Resolution and Range	Min 5 mph; Max 99 mph in 1 mph steps (min 8 kph, max 99 kph in 1.6 kph steps)
Radar Specification and Range	K-band (24.15GHz) direct sensing; license free (FCC part 15 compliant); average range at 450 feet (plus 400' or minus 100' depending on vehicle size)
Materials and Construction	
Chassis Size/Total Weight	18" width x 24" height x 1-7/8" depth; 10 pounds with bracket
Front Face Sheeting	3M™ Diamond Grade™; high visibility prismatic, long life protective sheeting
Sign Face Color	White; fluorescent yellow-green; additional colors optional
Sign Mounting Construction	1/8" thick aluminum brackets and face; standard 3% tilt bracket configuration; flat mount brackets optional
Vandal Resistant Construction	Sealed electronics box (ECS): 1/16" thick aluminum enclosure attached to a 1/8" thick mounting plate. The ECS is removable from the chassis as a complete unit.
	3/16" high impact polycarbonate face with high contrast mask; anti-glare graffiti and sunlight resistant
	Provisions for padlocking in place are provided
	Standard DOT powder coat green color with additional colors optional
Electronics Enclosure Rating	Weatherproof; NEMA 3R
Electrical Specifications	
Power Requirements	12VDC, low standby: average day at 8.5W, average night at 1.5W
Voltage Requirements	9V-30VDC, 12VDC Nominal (Battery protection at 11.5VDC and 10.8VDC; startup at 12.3VDC)
Power Options	AC power kit
	Solar kits: 55W, 90W and 130W
	Battery charger kit; battery box
Operating Temperature	Internal components: -34°C to +74°C/(-29°F to +165°F)
	Ambient environment: -34°C to +60°C/(-29°F to 140°F)
Warranties	3 year limited warranty; Power options: 2 year limited warranty (excluding batteries)
SafetyCalm™ Configuration and Traffic Data Collection Software	
Data Collection	SafetyCalm™ software; license free
Event Logging with Time Stamp	Event data: (60 days with a circular buffer):applied voltage (VDC); internal temperature (°C); ambient light (lux); display functional status; traffic status; shock sensor events; parameter events
Vehicle Data Logging Capacity	Speed Data: 90 days with circular buffer (oldest reading replaced by newest) based on 24/7 operation
Programmable Display Features	Min. speed limit; speed limit; over speed; maximum speed to display
	Display type: blank (stealth mode); actual speed; speed limit; flashing digits; steady digits; strobing digits and strobing 'SLOW DOWN' text
	Programmable integrated "SLOW DOWN" Message; external beacon control
Schedules	Repeating daily: 9 events; repeating weekly: 9 events; non-repeating dated: 9 events; (27 events in each 24 hour period; 365 days per year while powered)
Communications	Bluetooth™ Class 1 connectivity (V2.1 +EDC) min at 30' (FCC certified); RS232 port
	App for Android™ optional
System Requirements	Operating system: Windows XP; Windows Vista; Windows 7
	Screen resolution: 1024 x 768 or better
	Communications interfaces: Bluetooth Class 1 or 2 adapters (capabilities: V1.0, V1.2, V2.0. V2.1 + EDC)
	Disk space: 16.5MB minimum

12" Driver Feedback Value Sign

The TraffiCalm Street Series of Radar Driver Feedback Value Signs offers an economical and simple solution to help increase driver speed awareness and road safety. The bright 12" characters can be seen from up to 600' away, and help increase driver speed awareness on the neighborhood streets where so many small accidents occur every year. TraffiCalm Value signs are designed for situations where drivers need to simply be alerted of their current speed but the additional data collecting and screen programming capabilities of TraffiCalm Smart signs is not necessary.

TraffiCalm Driver Feedback Signs are manufactured in the USA in an ISO 9001:2008 certified
facility, meeting and exceeding industry
standards and state testing requirements.
TraffiCalm signs are unmatched in durability,
accuracy, ease of use and affordability.

Features:
- IR remote for configuration and basic programming
- 100% MUTCD compliant
- Complete 20W Solar package included
- Integrated batteries provide for several days of normal operation on a single charge without the assistance of the solar panel
- K-band (24.15GHz) radar, range 650+ feet.
- Unlimited tech support and customer service from our USA facility for the life of the sign
- Fast delivery- typically ships within 5 days of order
- 3 year limited warranty

Package Includes:
Driver Feedback sign, mounting bracket, 20W solar package, installation and user manual.

Part #: M75-012SE-000x

- *Economical*
- *7-Segment Display*
- *Solar Kit Included*
- *Easy Installation*
- *Optimized for 5-35 mph roadways*

Feature	Specifications
LED and Radar Components	
Speed Display Height	12" high numbers
Configuration	Seven-Segment Display
"YOUR SPEED" Legend	4" high highway gothic font (MUTCD compliant)
LED, 1/2 Cone Angle	Amber (590nM); ½ Angle 15°; Rated 100,000 hours; 20,000 CDA/ M^2, Auto Dimming employed
Amber LED on Axis Intensity	20,000 CDA/SQ meter
Sign Legibility	Viewable range: 1,000 feet, legible range: 600 feet
Speed Resolution and Range	Min 5 mph; Max 99 mph in 1 mph steps (min 8 kph, max 99 kph in 1.6 kph steps)
Radar Specification and Range	K-band (24.15GHz) direct sensing; license free (FCC part 15 compliant); average range at 450 feet (plus 400' or minus 100' depending on vehicle size)
Materials and Construction	
Chassis Size/Total Weight	24" width x 30" height x 2-1/4" depth; 35 pounds with bracket
Front Face Sheeting	3M™ Diamond Grade™, high visibility prismatic, long life protective sheeting
Sign Face Color	White; fluorescent yellow-green; with additional colors optional
Sign Mounting Construction	1/8" thick aluminum brackets and face; standard 3% tilt bracket configuration; flat mount brackets optional
Vandal Resistant Construction	Sealed electronics box (ECS) 1/16" thick aluminum enclosure attached to a 1/8" thick mounting plate. The ECS is removable from the chassis as a complete unit.
	3/16" high impact polycarbonate face with high contrast mask; anti-glare graffiti and sunlight resistant
	Provisions for padlocking in place are provided
	Standard DOT powder coat green color with additional colors optional
Electronics Enclosure Rating	Weatherproof; NEMA 3R
Mounting	Quick detachable mount (lockable). Mount capable of being bolted or banded to a 2" Square pole, U-channel pole, 2½ or larger round pole, or flat surface.
Electrical Specifications	
Power Requirements	12VDC, low standby: average day at 8.5W; average night at 1.5W
Voltage Requirements	9V-30VDC; 12VDC Nominal (Battery protection at 11.5VDC and 10.8VDC; startup at 12.3VDC)
Solar Package	Comes complete with a 20 Watt Polycrystalline panel, rack, and integrated TraffiCalm Smart Solar Charger™.
	Integrated 30 AH NiMH battery pack
Power Options	Upgrade to 55 Watt solar panel; optional indoor rated AC battery charger
Operating Temperature	Internal components: -34°C to +74°C/-29°F to +165°F
	Ambient environment: -34°C to +60°C/-29°F to 140°F
Programming Specifications	
Programmable Display Features	Min speed to display, over speed, and maximum speed to display
	Display type: actual speed; flashing digits; steady digits
	Control line for external devices such as beacons
Schedules	Repeating daily: 1 event
Communications	IrDA Compliant Wireless Remote
Warranties	3 year limited warranty; Power options: 2 year limited warranty (excluding batteries)

3M™ and Diamond Grade™ are trademarks of 3M. TraffiCalm product descriptions and specifications are subject to change without notice. All Rights Reserved

MOST AFFORDABLE DRIVER FEEDBACK SYSTEM
#1 BEST VALUE
IN THE INDUSTRY

12" Driver Feedback Smart Sign

The TraffiCalm Street Series of Radar Driver Feedback Smart Signs offers solutions for increasing driver speed awareness and road safety. The bright 12" characters can be seen from up to 600' away, and help increase driver speed awareness on the neighborhood streets where so many small accidents occur every year. SafetyCalm™ data collection software allows you to gather hard data of traffic patterns and program the sign to help keep streets safer.

TraffiCalm Driver Feedback Signs are manufactured in the USA in an ISO 9001:2008 certified facility, meeting and exceeding industry standards and state testing requirements. The 12" TraffiCalm Smart Signs are UL/ULC listed for electric code compliance. TraffiCalm signs are unmatched in durability, accuracy, ease of use and affordability.

The 12" Smart Sign is also available as a Variable Speed Limit sign with data logging and driver feedback (speed awareness) features. When ordering, select VSL.
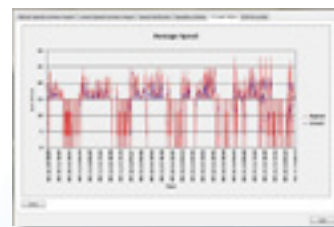
Features:
- Bluetooth wireless programming
- SafetyCalm™ Configuration and Traffic Data Collection software included free
- Programmable full matrix display allows the sign to display speed numbers as well as messages like 'SLOW DOWN'.
- UL/ULC listed for simple and code compliant installation
- 100% MUTCD compliant
- Solar or 110V AC ready (power packages sold separately)
- K-band (24.15GHz) radar, range 450+ feet.
- Unlimited tech support and customer service from our USA facility for the life of the sign
- Fast delivery- typically ships within 5 days of order
- 3 year limited warranty

Package Includes:
Driver Feedback sign, mounting bracket, SafetyCalm™ Configuration and Traffic Data Collection Software, installation and user manual.

SafetyCalm™

SafetyCalm™ Configuration and Traffic Data Collection Software allows you to program your sign from your laptop and collect and graphically display traffic data

Part #: M75-12DFB-000x

- *Full Matrix Display*
- *Solar or AC power options*
- *Optimized for 5-35 mph roadways*
- *Bluetooth wireless communication*

12" Driver Feedback Smart Signs

Feature	Specifications
LED and Radar Components	
Speed Display Height	12" high numbers
Text & Emoticon Height	3" high two lines 'SLOW DOWN' text; 12" high 'smile' or 'sad' face emoticon
"YOUR SPEED" Legend	3" high highway gothic font (MUTCD compliant)
LED, 1/2 Cone Angle	Amber (590nM); ½ Angle 15°; Rated 100,000 hours; 20,000 CDA/ M^2, Auto Dimming employed
Amber LED on Axis Intensity	20,000 CDA/SQ meter
Sign Legibility	Viewable range: 1,000 feet; legible range: 600 feet
Speed Resolution and Range	Min 5 mph; Max 143 mph in 1 mph steps (min 8 kph, max 230 kph in 1.6 kph steps)
Radar Specification and Range	K-band (24.15GHz) direct sensing; license free (FCC part 15 compliant); average range at 450 feet (plus 400' or minus 100' depending on vehicle size)
Materials and Construction	
Chassis Size/Total Weight	24" width x 30" height x 1-7/8" depth;under 24 pounds with bracket
Front Face Sheeting	3M™ Diamond Grade™, high visibility prismatic, long life protective sheeting
Sign Face Color	White; fluorescent yellow-green; with additional colors optional
Sign Mounting Construction	1/8" thick aluminum brackets and face; standard 3% tilt bracket configuration; flat mount brackets optional
Vandal Resistant Construction	Sealed electronics box (ECS) 1/16" thick aluminum enclosure attached to a 1/8" thick mounting plate. The ECS is removable from the chassis as a complete unit.
	3/16" high impact polycarbonate face with high contrast mask; anti-glare graffiti and sunlight resistant
	Provisions for padlocking in place are provided
	Standard DOT powder coat green color with additional colors optional
Electronics Enclosure Rating	Weatherproof; NEMA 3R
Electrical Specifications	
Power Requirements	2W stealth; 300MW standby; 6W night; 28W day
Voltage Requirements	9V-30VDC; 12VDC Nominal (Battery protection at 11.5VDC and 10.8VDC; startup at 12.3VDC)
Power Options	AC Power Module 120W Version required
	Solar kits: 130W recommended; 85W kit available.
	Battery charger kit; battery box
Operating Temperature	Internal components: -34°C to +74°C/-29°F to +165°F
	Ambient environment: -34°C to +60°C/-29°F to 140°F
Warranties	3 year limited warranty; Power options: 2 year limited warranty (excluding batteries)
SafetyCalm™ Configuration and Traffic Data Collection Software	
Data Collection	SafetyCalm™ software, license free
Event Logging with Time Stamp	Event data: 60 days with a circular buffer; applied voltage (VDC); internal temperature (°C); ambient light (lux); display functional status; traffic status; shock sensor events; parameter events
Vehicle Data Logging Capacity	Speed Data: 90 days with circular buffer (oldest reading replaced by newest) based on 24/7 operation
Programmable Display Features	Min. speed limit; speed limit; over speed; and maximum speed to display
	Display type: blank (stealth mode); actual speed; speed limit; flashing digits; steady digits; strobing digits and strobing 'SLOW DOWN' text
	Programmable integrated "SLOW DOWN" Message; external beacon control
Schedules	Repeating daily: 9 events; repeating weekly: 9 events; non-repeating dated: 9 events; (27 events in one 24 hour period; 365 days per year while powered)
Communications	Bluetooth™ Class 1 connectivity (V2.1 +EDC) min at 30' (FCC certified); RS232 port
	App for Android™ optional
System Requirements	Operating system: Windows XP, Windows Vista, Windows 7
	Screen resolution: 1024 x 768 or better
	Communications interfaces: Bluetooth Class 1 or 2 adapters (capabilities: V1.0, V1.2, V2.0, V2.1 + EDC)
	Disk space: 16.5MB minimum

3M™ and Diamond Grade™ are trademarks of 3M. Android is a trademark of Google, Inc. TraffiCalm product descriptions and specifications are subject to change without notice. All Rights Reserved

9" Portable Driver Feedback Value Sign

The TraffiCalm Portable Series of Radar Driver Feedback Value Signs offers an economical and simple solution to help increase driver speed awareness and road safety along with the flexibility of a portable system. The bright 9" characters can be seen from up to 450' away, and help increase driver speed awareness on the neighborhood streets where so many small accidents occur every year. TraffiCalm Value signs are designed for situations where drivers need to simply be alerted of their current speed but the additional data collecting and screen programming capabilities of TraffiCalm Smart signs is not necessary. The 9" Portable Value sign offers multi-site versatility. Temporarily deploy the lightweight sign to locations of your choice with the ease of our two-bolt mounting system. Individual mounting brackets are available as an accessory, and one is required per location.

TraffiCalm Driver Feedback Signs are manufactured in the USA in an ISO 9001:2008 certified facility, meeting and exceeding industry standards and state testing requirements. TraffiCalm signs are unmatched in durability, accuracy, ease of use and affordability.

Part #: M75-09SE-P00x

- *Economical*
- *7-Segment Display*
- *AC Charger Included*
- *Easy Installation and multi-site versatility (see pg. 29 for accessory brackets)*
- *Optimized for 5-25 mph roadways*

Features:
- IR remote for configuration and basic programming
- 100% MUTCD compliant
- Built in 20Ah battery pack and AC charging adapter from charging between deployments
- K-band (24.15GHz) radar, range 450+ feet.
- Unlimited tech support and customer service from our USA facility for the life of the sign
- Fast delivery- typically ships within 5 days of order
- 3 year limited warranty

Package Includes:
Driver Feedback sign, mounting bracket, installation and user manual.

The 9" Portable Value Sign is also available as a Variable Speed Limit sign with battery pack and IR programming. When ordering, select VSL.

TRAFFICALM SYSTEMS
Division of MOR Manufacturing

9" Portable Driver Feedback Smart Sign

The TraffiCalm Portable Series of Radar Driver Feedback Smart Signs offers solutions for increasing driver speed awareness and road safety along with the flexibility of a portable system. The bright 9" characters can be seen from up to 450' away, and help increase driver speed awareness on the neighborhood streets where so many small accidents occur every year. SafetyCalm™ data collection software allows you to gather hard data of traffic patterns and program the sign to help keep streets safer. The 9" Portable Smart sign offers multi-site versatility. Temporarily deploy the lightweight sign to locations of your choice with the ease of our two-bolt mounting system. Individual mounting brackets are available as an accessory, and one is required per location.

TraffiCalm Driver Feedback Signs are manufactured in the USA in an ISO 9001:2008 certified facility, meeting and exceeding industry standards and state testing requirements. TraffiCalm signs are unmatched in durability, accuracy, ease of use and affordability.

Part #: M75-9IDFB-P00x

- *Full Matrix Display*
- *AC charger included*
- *Easy installation and multi-site versatility (see pg. 29 for accessory bracket)*
- *Optimized for 5-25 mph roadways*
- *Bluetooth wireless communication*

Features:
- Bluetooth wireless programming
- SafetyCalm™ Configuration and Traffic Data Collection software included free
- Programmable full matrix display allows the sign to display speed numbers as well as messages like 'SLOW DOWN'.
- 100% MUTCD compliant
- Built in 20Ah battery pack and AC charging adapter from charging between deployments
- K-band (24.15GHz) radar, range 450+ feet.
- Unlimited tech support and customer service from our USA facility for the life of the sign
- Fast delivery- typically ships within 5 days of order
- 3 year limited warranty

Package Includes:
Driver Feedback sign, mounting bracket, SafetyCalm™ Configuration and Traffic Data Collection Software, installation and user manual.

The 9" Portable Smart Sign is also available as a Variable Speed Limit sign with data logging and driver feedback (speed awareness) features. When ordering, select VSL.

www.trafficalmsystems.com • 1-855-738-2722

12" Portable Driver Feedback Value Sign

The TraffiCalm Portable Series of Radar Driver Feedback Value Signs offer solutions for increasing driver speed awareness and road safety along with the flexibility of being portable. The bright 12" characters can be seen from up to 600' away, and help increase driver speed awareness on the neighborhood streets where so many small accidents occur every year. SafetyCalm™ data collection software allows you to gather hard data of traffic patterns and program the sign to help keep streets safer. The 12" Portable Value sign offers multi-site versatility. Temporarily deploy the lightweight sign to locations of your choice with the ease of our two-bolt mounting system. Individual mounting brackets are available as an accessory, and one is required per location.

TraffiCalm Driver Feedback Signs are manufactured in the USA in an ISO 9001:2008 certified facility, meeting and exceeding industry standards and state testing requirements. TraffiCalm signs are unmatched in durability, accuracy, ease of use and affordability.

The 12" Portable Value Sign is also available as a Variable Speed Limit sign with battery pack and IR programming. When ordering, select VSL.

Part #: M75-012SE-P00x

- *Economical*
- *7-Segment Display*
- *AC Charger Included*
- *Easy Installation and multi-site versatility (see pg. 29 for accessory brackets)*
- *Optimized for 5-35mph roadways*

Features:

- IR remote for configuration and basic programming
- 100% MUTCD compliant
- Built in 30Ah battery pack and AC charging adapter from charging between deployments
- K-band (24.15GHz) radar, range 650+ feet.
- Unlimited tech support and customer service from our USA facility for the life of the sign
- Fast delivery- typically ships within 5 days of order
- 3 year limited warranty

Package Includes:
Driver Feedback sign, mounting bracket, installation and user manual.

TRAFFICALM SYSTEMS
Division of MOR Manufacturing

12" Portable Driver Feedback Smart Sign

The TraffiCalm Portable Series of Radar Driver Feedback Smart Signs offers solutions for increasing driver speed awareness and road safety. The bright 12" characters can be seen from up to 600' away, and help increase driver speed awareness on the neighborhood streets where so many small accidents occur every year. SafetyCalm™ data collection software allows you to gather hard data of traffic patterns and program the sign to help keep streets safer. The 12" Portable Smart sign offers multi-site versatility. Temporarily deploy the lightweight sign to locations of your choice with the ease of our two-bolt mounting system. Individual mounting brackets are available as an accessory, and one is required per location.

TraffiCalm Driver Feedback Signs are manufactured in the USA in an ISO 9001:2008 certified facility, meeting and exceeding industry standards and state testing requirements. TraffiCalm signs are unmatched in durability, accuracy, ease of use and affordability.

The 12" Portable Smart Sign is also available as a Variable Speed Limit sign with data logging and driver feedback (speed awareness) features. When ordering, select VSL.

Part #: M75-12DFB-P00x

- *Full Matrix Display*
- *AC charger included*
- *Easy installation and multi-site versatility (see pg. 29 for accessory bracket)*
- *Optimized for 5-35 mph roadways*
- *Bluetooth wireless communication*

Features:

- Bluetooth wireless programming
- SafetyCalm™ Configuration and Traffic Data Collection software included free
- Programmable full matrix display allows the sign to display speed numbers as well as messages like 'SLOW DOWN'.
- 100% MUTCD compliant
- Built in 30Ah battery pack and AC charging adapter from charging between deployments
- K-band (24.15GHz) radar, range 450+ feet.
- Unlimited tech support and customer service from our USA facility for the life of the sign
- Fast delivery- typically ships within 5 days of order
- 3 year limited warranty

Package Includes:
Driver Feedback sign, mounting bracket, SafetyCalm™ Configuration and Traffic Data Collection Software, installation and user manual.

14" Driver Feedback Smart Sign

The TraffiCalm Roadway Series of Radar Driver Feedback Smart Signs offers solutions for increasing driver speed awareness and road safety. The bright 14" characters can be seen from up to 1,000' away, and help increase driver speed awareness on the roadways where accidents can be so dangerous. SafetyCalm™ data collection software allows you to gather hard data of traffic patterns and program the sign to help keep roads safer.

TraffiCalm Driver Feedback Signs are manufactured in the USA in an ISO 9001:2008 certified facility, meeting and exceeding industry standards and state testing requirements. TraffiCalm signs are unmatched in durability, accuracy, ease of use and affordability.

The 14" Smart Sign is also available as a Variable Speed Limit sign with data logging and driver feedback (speed awareness) features. When ordering, select VSL.
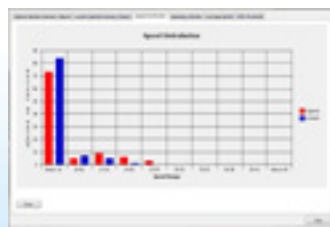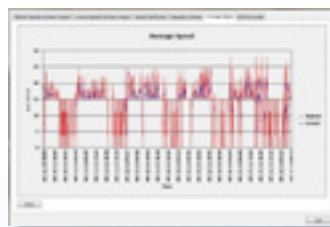
Features:

- Bluetooth wireless programming
- SafetyCalm™ Configuration and Traffic Data Collection software included free
- Programmable full matrix display allows the sign to display speed numbers as well as messages like 'SLOW DOWN'.
- 100% MUTCD compliant
- UL/ULC listed for simple and code compliant installation
- 100% MUTC
- Solar or 110V AC ready (power packages sold separately)
- K-band (24.15GHz) radar, range 1,000+ feet.
- Unlimited tech support and customer service from our USA facility for the life of the sign
- Fast delivery- typically ships within 5 days of order
- 3 year limited warranty

Package Includes:

Driver Feedback sign, mounting bracket, SafetyCalm™ Configuration and Traffic Data Collection Software, installation and user manual.

SafetyCalm™

SafetyCalm™ Configuration and Traffic Data Collection Software allows you to program your sign from your laptop and collect and graphically display traffic data

Part #: M75-14DFB-000x

- *Full Matrix Display*
- *Solar or AC power options*
- *Optimized for 25-50 mph roadways*
- *Bluetooth wireless communication*

14" Driver Feedback Smart Sign

Feature	Specifications
LED and Radar Components	
Speed Display Height	14" high numbers
Text & Emoticon Height	6" high two lines 'SLOW DOWN' text, 14" high 'smile' or 'sad' face emoticon
"YOUR SPEED" Legend	5" high highway gothic font (MUTCD compliant)
LED, 1/2 Cone Angle	Amber (590nM); ½ Angle 15°; Rated 100,000 hours; 20,000 CDA/ M^2, Auto Dimming employed
Amber LED on Axis Intensity	20,000 CDA/SQ meter
Sign Legibility	Viewable range: 1,000 feet, legible range: 700 feet
Speed Resolution and Range	Min 5 mph, Max 99 mph in 1 mph steps (min 8 kph, max 159 kph in 1.6 kph steps)
Radar Specification and Range	K-band (24.15GHz) direct sensing, license free (FCC part 15 compliant), average range at 1,000 feet (plus 400' or minus 100' depending on vehicle size)
Materials and Construction	
Chassis Size/Total Weight	30" width x 38" height x 2.75" depth, 46 pounds
Front Face Sheeting	3M™ Diamond Grade™, high visibility prismatic, long life protective sheeting
Sign Face Color	White, fluorescent yellow-green, with additional colors optional
Sign Mounting Construction	3/16" thick aluminum brackets and 1/8" face, standard 3% tilt bracket configuration, Flat mount brackets optional
Vandal Resistant Construction	Sealed electronics box (ECS) 1/16" thick aluminum enclosure attached to a 1/8" thick mounting plate. The ECS is removable from the chassis as a complete unit.
	1/4" high impact polycarbonate face with high contrast mask, anti-glare graffiti and sunlight resistant
	Provisions for padlocking in place are provided
	Standard DOT powder coat green color with additional colors optional
Electronics Enclosure Rating	Weatherproof, NEMA 3R
Electrical Specifications	
Power Requirements	300mW standby, 2W stealth, 5W typical at night (100% traffic), 18W by day (bright sun, 100% traffic) and 45W over-bright (100% traffic, sun on face of display)
Voltage Requirements	9V-30VDC, 12VDC Nominal (Battery protection at 11.5VDC and 10.8VDC, startup at 12.3VDC)
Power Options	AC Power Kit
	Solar kits: 90W recommended with 55W optional
	Battery charger kit
Operating Temperature	Internal components: -34°C to +74°C/-29°F to +165°F
	Ambient environment: -34°C to +60°C/-29°F to 140°F
Warranties	3 year limited warranty; Power options: 2 year limited warranty (excluding batteries)
SafetyCalm™ Configuration and Traffic Data Collection Software	
Data Collection	SafetyCalm™ software, license free
Event Logging with Time Stamp	Event data: 60 days with a circular buffer, applied voltage (VDC), internal temperature (°C), ambient light (lux), display functional status, traffic status, shock sensor events, parameter events
Vehicle Data Logging Capacity	Speed Data: 90 days with circular buffer (oldest reading replaced by newest) based on 24/7 operation
Programmable Display Features	Min. speed limit, speed limit, over speed, and maximum speed to display
	Display type: blank (stealth mode), actual speed, speed limit, flashing digits, steady digits, strobing digits and strobing 'SLOW DOWN' text
	Programmable integrated "SLOW DOWN" Message, external beacon control
Schedules	Repeating daily: 9 events, repeating weekly: 9 events, non-repeating dated: 9 events, (27 events in one 24 hour period, 365 days per year while powered)
Communications	Bluetooth™ Class 1 connectivity (V2.1 +EDC) min at 30' (FCC certified), RS232 port
	App for Android™ optional
System Requirements	Operating system: Windows XP, Windows Vista, Windows 7
	Screen resolution: 1024 x 768 or better
	Communications interfaces: Bluetooth Class 1 or 2 adapters (capabilities: V1.0, V1.2, V2.0, V2.1 + EDC)
	Disk space: 16.5MB minimum

15" Driver Feedback Smart Sign

The TraffiCalm Roadway Series of Radar Driver Feedback Smart Signs offers solutions for increasing driver speed awareness and road safety. The bright 15" characters can be seen from up to 1,000' away, and help increase driver speed awareness on the roadways where accidents can be so dangerous. SafetyCalm™ data collection software allows you to gather hard data of traffic patterns and program the sign to help keep roads safer.

TraffiCalm Driver Feedback Signs are manufactured in the USA in an ISO 9001:2008 certified facility, meeting and exceeding industry standards and state testing requirements. The 15" TraffiCalm Smart Signs are UL/ULC listed for electric code compliance. TraffiCalm signs are unmatched in durability, accuracy, ease of use and affordability.

The 15" Smart Sign is also available as a Variable Speed Limit sign with data logging and driver feedback (speed awareness) features. When ordering, select VSL.

Features:

- Bluetooth wireless programming
- SafetyCalm™ Configuration and Traffic Data Collection software included free
- Work zone version also available (see page 24)
- UL/ULC listed for simple and code compliant installation
- 100% MUTCD compliant
- Solar or 110V AC ready (power packages sold separately)
- K-band (24.15GHz) radar, range 650+ feet.
- Unlimited tech support and customer service from our USA facility for the life of the sign
- Fast delivery- typically ships within 5 days of order
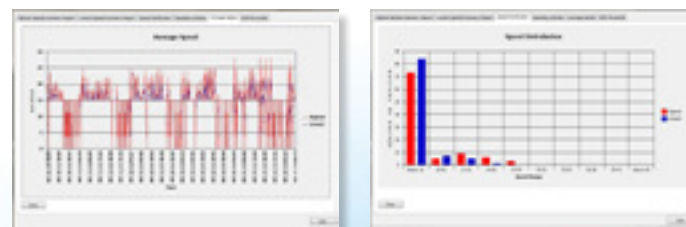- 3 year limited warranty

Package Includes:

Driver Feedback sign, mounting bracket, SafetyCalm™ Configuration and Traffic Data Collection Software, installation and user manual.

Part #: M75-15DFB-000x

- *7-Segment Display*
- *Solar or AC power options*
- *Optimized for 25-50 mph roadways*
- *Bluetooth wireless communication*

SafetyCalm™

SafetyCalm™ Configuration and Traffic Data Collection Software allows you to program your sign from your laptop and collect and graphically display traffic data

Feature	Specifications
LED and Radar Components	
Speed Display Height	15" high numbers
Configuration	Seven-Segment Display (targeted for less than 50MPH applications)
"YOUR SPEED" Legend	6" high highway gothic font (MUTCD compliant)
LED, 1/2 Cone Angle	Amber (590nM); ½ Angle 15°; Rated 100,000 hours; 20,000 CDA/ M^2, Auto Dimming employed
Amber LED on Axis Intensity	20,000 CDA/SQ meter
Sign Legibility	Viewable range: 1,000 feet; legible range: 750 feet
Speed Resolution and Range	Min 5 MPH; Max 99 MPH in 1 MPH steps. Range 600 feet. (Max 140 mph available as custom order)
Radar Specification and Range	K-band (24.15GHz) direct sensing; license free (FCC part 15 compliant); average range at 1,000 feet (plus 400' or minus 100' depending on vehicle size)
Materials and Construction	
Chassis Size/Total Weight	30" width x 41" height x 3" depth; 36 pounds
Front Face Sheeting	3M™ Diamond Grade™, high visibility prismatic, long life protective sheeting
Sign Face Color	White, fluorescent yellow-green; with additional colors optional
Sign Mounting Construction	3/16" thick aluminum brackets and 1/8" face; standard 3% tilt bracket configuration; Flat mount brackets optional
Vandal Resistant Construction	Sealed electronics box (ECS) 1/16" thick aluminum enclosure attached to a 1/8" thick mounting plate. The ECS is removable from the chassis as a complete unit.
	1/4" high impact polycarbonate face with high contrast mask; anti-glare graffiti and sunlight resistant
	Provisions for padlocking in place are provided
	Standard DOT powder coat green color with additional colors optional
Electronics Enclosure Rating	Weatherproof; NEMA 3R
Electrical Specifications	
Power Requirements	12VDC (10.5VDC to 16VDC), 54W (30x41) or 115W (48x60), Stealth 2W: Standby 0.5W/Shutdown 100mW; Ave 10W (30x41) or 30W (48x60)
Voltage Requirements	9V-30VDC; 12VDC Nominal (Battery protection at 11.5VDC and 10.8VDC; startup at 12.3VDC)
Power Options	AC Power Module 100-120VAC 50/60Hz 60W or 120W
	Solar kits: 90W recommended with 55W optional
	Battery charger kit
Operating Temperature	Internal components: -34°C to +74°C/-29°F to +165°F
	Ambient environment: -34°C to +60°C/-29°F to 140°F
Warranties	2 year limited warranty on sign and options (excluding batteries)
SafetyCalm™ Configuration and Traffic Data Collection Software	
Data Collection	SafetyCalm™ software, license free
Event Logging with Time Stamp	Event data: 60 days with a circular buffer; applied voltage (VDC); internal temperature (°C); ambient light (lux); display functional status; traffic status; shock sensor events; parameter events
Vehicle Data Logging Capacity	Speed Data: 90 days with circular buffer (oldest reading replaced by newest) based on 24/7 operation
Programmable Display Features	Min. speed limit, speed limit, over speed, and maximum speed to display
	Display type: blank (stealth mode); actual speed; speed limit; flashing digits; steady digits; external beacon control
Schedules	Repeating daily: 9 events; repeating weekly: 9 events; non-repeating dated: 9 events; (27 events in each 24 hour period; 365 days per year while powered)
Communications	Bluetooth™ Class 1 connectivity (V2.1 +EDC) min at 30' (FCC certified); RS232 port
	App for Android™ Optional
System Requirements	Operating system: Windows XP, Windows Vista, Windows 7
	Screen resolution: 1024 x 768 or better
	Communications interfaces: Bluetooth Class 1 or 2 adapters (capabilities: V1.0, V1.2, V2.0, V2.1 + EDC)
	Disk space: 16.5MB minimum

3M™ and Diamond Grade™ are trademarks of 3M. Android is a trademark of Google, Inc. TraffiCalm product descriptions and specifications are subject to change without notice. All Rights Reserved

HIGHWAY *series*

18" Driver Feedback Smart Sign

The TraffiCalm Highway Series of Radar Driver Feedback Smart Signs offers solutions for increasing driver speed awareness and road safety. The large, bright 18" characters can be seen from up to 1,500' away, and help promote traffic safety on the most dangerous roads in the country--highways.

TraffiCalm Driver Feedback Signs are manufactured in the USA in an ISO 9001:2008 certified facility, meeting and exceeding industry standards and state testing requirements. The 18" TraffiCalm Smart Signs are UL/ULC listed for electric code compliance. TraffiCalm signs are unmatched in durability, accuracy, ease of use and affordability.

The 18" Smart Sign is also available as a Variable Speed Limit sign with data logging and driver feedback (speed awareness) features. When ordering, select VSL.
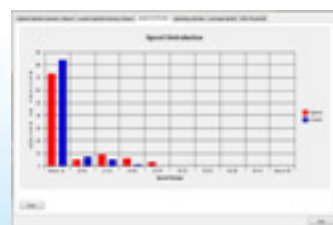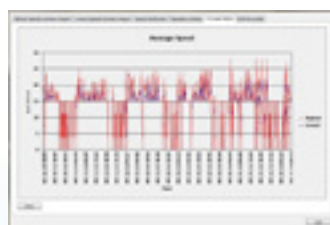
Features:

- Available in 18" and 18" jumbo, and work zone versions. (Jumbo sign has larger sign face)
- Bluetooth remote programming
- SafetyCalm Configuration and Traffic Data Collection software included free
- Programmable full matrix display allows the sign to display speed numbers as well as messages like 'SLOW DOWN'.
- UL/ULC listed for simple and code compliant installation
- 100% MUTCD compliant
- Solar or 110V AC ready (power packages sold separately)
- K-band (24.15GHz) radar, range 1,000+ feet.
- Unlimited tech support and customer service from our USA facility for the life of the sign
- Fast delivery- typically ships within 5 days of order
- 3 year limited warranty

Package Includes:

Driver Feedback sign, mounting bracket, SafetyCalm™ Configuration and Traffic Data Collection Software, installation and user manual.

Part #: M75-18DFB-000x

- *Full Matrix Display*
- *Solar or AC power options*
- *Optimized for 45-90 mph roadways*
- *Bluetooth wireless communication*

SafetyCalm™

SafetyCalm™ Configuration and Traffic Data Collection Software allows you to program your sign from your laptop and collect and graphically display traffic data

Feature	Specifications
LED and Radar Components	
Speed Display Height	18" high numbers, highway gothic 8E font
Text & Emoticon Height	8" high two lines 'SLOW DOWN' text, 18" high 'smile' or 'sad' face emoticon
"YOUR SPEED" Legend	6" high highway gothic font (MUTCD compliant)
LED, 1/2 Cone Angle	Amber (590nM); ½ Angle 15°; Rated 100,000 hours; 20,000 CDA/ M^2, Auto Dimming employed
Amber LED on Axis Intensity	20,000 CDA/SQ meter
Sign Legibility	Viewable range: 1,500 feet, legible range: 1,000 feet
Speed Resolution and Range	Min 5 mph, Max 140 mph in 1 mph steps (min 8 kph, max 225 kph in 1.6 kph steps)
Radar Specification and Range	K-band (24.15GHz) direct sensing, license free (FCC part 15 compliant), average range at 1,000 feet (depending on vehicle size)
Materials and Construction	
Chassis Size/Total Weight with Electronics box	36" width x 48" height x 2.75" depth, 56 pounds
Front Face Sheeting	3M™ Diamond Grade™, high visibility prismatic, long
Sign Face Color	White, fluorescent yellow, green, fluorescent orange with additional colors optional
Sign Mounting Construction	3/16" thick aluminum brackets and 1/8" face, standard 3% tilt bracket configuration, Flat mount brackets optional
Vandal Resistant Construction	Enclosed electronics box (ECS) 1/16" thick aluminum enclosure attached to a 1/8" thick mounting plate. The ECS is removable from the chassis as a complete unit.
	1/4" high impact polycarbonate face with high contrast mask, anti-glare graffiti and sunlight resistant
	Provisions for padlocking in place are provided
	Standard DOT powder coat green color with additional colors optional
Electronics Enclosure Rating	Weatherproof, NEMA 3R
Electrical Specifications	
Power Requirements	300mW standby, 2W stealth, 8W typical at night (100% traffic), 30W by day (bright sun, 100% traffic) and 70W overbright (100% traffic, sun on face of display)
Voltage Requirements	9v - 30VDC, 12VDC Nominal, (Battery protection at 11.5VDC and 10.8VDC, startup at 12.3VDC)
Power Options	AC power kit
	Solar kits: 130W recommended with 90W optional
	Battery charger kit
Operating Temperature	Internal components: 34°C to +74°C/ 29°F to +165°F, Ambient Environment: 34°C to +60°C/ 29°F to 140°F
Warranties	Sign: 3 years, Options/accessories: 2 years, excluding batteries
SafetyCalm™ Configuration and Traffic Data Collection Software	
Data Collection	SafetyCalm software, license free
Event Logging with Time Stamp	Event data: 60 days with a circular buffer, applied voltage (VDC), internal temperature (°C), ambient light (lux), display functional status, traffic status, shock sensor events, parameter events
Vehicle Data Logging Capacity	Speed Data: 90 days with circular buffer (oldest reading replaced by newest) based on 24/7 operation
Programmable Display Features	Min. speed limit, speed limit, over speed, and maximum speed to display
	Display type: blank (stealth mode), actual speed, speed limit, flashing digits, steady digits, strobing digits and strobing 'SLOW DOWN' text
	Programmable integrated "SLOW DOWN" Message, external beacon control
Schedules	Repeating daily: 9 events, repeating weekly: 9 events, non-repeating dated: 9 events, (27 events in one 24 hour period, 365 days per year while powered)
Communications	Bluetooth™ Class 1 connectivity (V2.1 +EDC) min at 30' (FCC certified), RS232 port
	App for Android™ optional
System Requirements	Operating system: Windows XP, Windows Vista, Windows 7
	Screen resolution: 1024 x 768 or better
	Communications interfaces: Bluetooth Class 1 or 2 adapters (capabilities: V1.0, V1.2, V2.0, V2.1 + EDC)
	Disk space: 16.5MB minimum

3M™ and Diamond Grade™ are trademarks of 3M. Android is a trademark of Google, Inc. TraffiCalm product descriptions and specifications are subject to change without notice. All Rights Reserved

TRAFFICALM SYSTEMS
Division of MOR Manufacturing

YOUR SPEED 70

HIGHWAY *series*

18" Driver Feedback Jumbo Smart Sign

The TrafficCalm Highway Series of Radar Driver Feedback Smart Signs offers solutions for increasing driver speed awareness and road safety. The large, bright 18" characters can be seen from up to 1,500' away, and help increase traffic safety on the most dangerous roads in the country– highways.

TrafficCalm Driver Feedback Signs are manufactured in the USA in an ISO 9001:2008 certified facility, meeting and exceeding industry standards and state testing requirements. The 18" TrafficCalm Smart Signs are UL/ULC listed for electric code compliance. TrafficCalm signs are unmatched in durability, accuracy, ease of use and affordability.

Features:

- Available also in 18" regular size (Regular 18" sign has smaller sign face) and Work Zone version.
- Bluetooth remote programming
- SafetyCalm Configuration and Traffic Data Collection software included free
- Programmable full matrix display allows the sign to display speed numbers as well as messages like 'SLOW DOWN'.
- UL/ULC listed for simple and code compliant installation
- 100% MUTCD compliant
- Solar or 110V AC ready (power packages sold separately)
- K-band (24.15GHz) radar, range 1,000+ feet.
- Unlimited tech support and customer service from our USA facility for the life of the sign
- Fast delivery- typically ships within 5 days of order
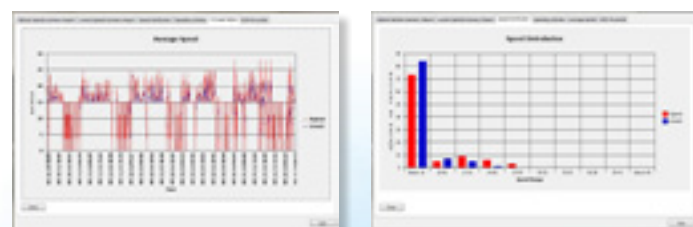- 3 year limited warranty

Package Includes:

Driver Feedback sign, mounting bracket, SafetyCalm™ Configuration and Traffic Data Collection Software, installation and user manual.

Part #: M75-018IE-000x

- *Full Matrix Display*
- *Solar or AC power options*
- *Optimized for 45-90 mph roadways*
- *Bluetooth wireless communication*

SPEED LIMIT 70

The 18" Smart Sign is also available as a Variable Speed Limit sign with data logging and driver feedback (speed awareness) features. When ordering, select VSL.

SafetyCalm™

SafetyCalm™ Configuration and Traffic Data Collection Software allows you to program your sign from your laptop and collect and graphically display traffic data

Feature	Specifications
LED and Radar Components	
Speed Display Height	18" high numbers, highway gothic 8E font
Text & Emoticon Height	8" high two lines 'SLOW DOWN' text, 18" high 'smile' or 'sad' face emoticon
"YOUR SPEED" Legend	6" high highway gothic font (MUTCD compliant)
LED, 1/2 Cone Angle	Amber (590nM); ½ Angle 15°; Rated 100,000 hours; 20,000 CDA/ M^2, Auto Dimming employed
Amber LED on Axis Intensity	20,000 CDA/SQ meter
Sign Legibility	Viewable range: 1,500 feet, legible range: 1,000 feet
Speed Resolution and Range	Min 5 mph, Max 140 mph in 1 mph steps (min 8 kph, max 225 kph in 1.6 kph steps)
Radar Specification and Range	K-band (24.15GHz) direct sensing, license free (FCC part 15 compliant), average range at 1,000 feet (depending on vehicle size)
Materials and Construction	
Chassis Size/Total Weight with Electronics box	36" width x 48" height x 2.75" depth, 56 pounds
Front Face Sheeting	3M™ Diamond Grade™, high visibility prismatic, long
Sign Face Color	White, fluorescent yellow, green, fluorescent orange with additional colors optional
Sign Mounting Construction	3/16" thick aluminum brackets and 1/8" face, standard 3% tilt bracket configuration, Flat mount brackets optional
Vandal Resistant Construction	Enclosed electronics box (ECS) 1/16" thick aluminum enclosure attached to a 1/8" thick mounting plate. The ECS is removable from the chassis as a complete unit.
	1/4" high impact polycarbonate face with high contrast mask, anti-glare graffiti and sunlight resistant
	Provisions for padlocking in place are provided
	Standard DOT powder coat green color with additional colors optional
Electronics Enclosure Rating	Weatherproof, NEMA 3R
Electrical Specifications	
Power Requirements	300mW standby, 2W stealth, 8W typical at night (100% traffic), 30W by day (bright sun, 100% traffic) and 70W overbright (100% traffic, sun on face of display)
Voltage Requirements	9v - 30VDC, 12VDC Nominal, (Battery protection at 11.5VDC and 10.8VDC, startup at 12.3VDC)
Power Options	AC power kit
	Solar kits: 130W recommended with 90W optional
	Battery charger kit
Operating Temperature	Internal components: 34°C to +74°C/ 29°F to +165°F, Ambient Environment: 34°C to +60°C/ 29°F to 140°F
Warranties	Sign: 3 years, Options/accessories: 2 years, excluding batteries
SafetyCalm™ Configuration and Traffic Data Collection Software	
Data Collection	SafetyCalm software, license free
Event Logging with Time Stamp	Event data: 60 days with a circular buffer, applied voltage (VDC), internal temperature (°C), ambient light (lux), display functional status, traffic status, shock sensor events, parameter events
Vehicle Data Logging Capacity	Speed Data: 90 days with circular buffer (oldest reading replaced by newest) based on 24/7 operation
Programmable Display Features	Min. speed limit, speed limit, over speed, and maximum speed to display
	Display type: blank (stealth mode), actual speed, speed limit, flashing digits, steady digits, strobing digits and strobing 'SLOW DOWN' text
	Programmable integrated "SLOW DOWN" Message, external beacon control
Schedules	Repeating daily: 9 events, repeating weekly: 9 events, non-repeating dated: 9 events, (27 events in one 24 hour period, 365 days per year while powered)
Communications	Bluetooth™ Class 1 connectivity (V2.1 +EDC) min at 30' (FCC certified), RS232 port
	App for Android™ Optional
System Requirements	Operating system: Windows XP, Windows Vista, Windows 7
	Screen resolution: 1024 x 768 or better
	Communications interfaces: Bluetooth Class 1 or 2 adapters (capabilities: V1.0, V1.2, V2.0, V2.1 + EDC)
	Disk space: 16.5MB minimum

3M™ and Diamond Grade™ are trademarks of 3M. Android is a trademark of Google, Inc. TrafficCalm product descriptions and specifications are subject to change without notice. All Rights Reserved

TRAFFICALM SYSTEMS
Division of MOR Manufacturing

15" Work Zone Driver Feedback Smart Sign

The TraffiCalm Work Zone Series of Radar Driver Feedback Smart Signs offers solutions for increasing driver speed awareness and road safety in the extremely dangerous arena of construction zones. The bright 15" characters can be seen from up to 1,000' away, and help increase driver speed awareness and which better protects road construction workers. SafetyCalm™ data collection software allows you to gather hard data of traffic patterns and program the sign to help keep roads safer.

TraffiCalm Driver Feedback Signs are manufactured in the USA in an ISO 9001:2008 certified facility, meeting and exceeding industry standards and state testing requirements. The 15" TraffiCalm Smart Signs are UL/ULC listed for electric code compliance. TraffiCalm signs are unmatched in durability, accuracy, ease of use and affordability.

Features:
- Bluetooth wireless programming
- SafetyCalm™ Configuration and Traffic Data Collection software included free
- UL/ULC listed for simple and code compliant installation
- 100% MUTCD compliant
- Solar or 110V AC ready (power packages sold separately)
- K-band (24.15GHz) radar, range 1,000+ feet.
- Unlimited tech support and customer service from our USA facility for the life of the sign
- Fast delivery- typically ships within 5 days of order
- 3 year limited warranty

Package Includes:
Driver Feedback sign, mounting bracket, SafetyCalm™ Configuration and Traffic Data Collection Software, installation and user manual.

Part #: M75-15DFB-0003

- *7-Segment Display*
- *Solar or AC power options*
- *Ideal for 5-50 mph construction zones*
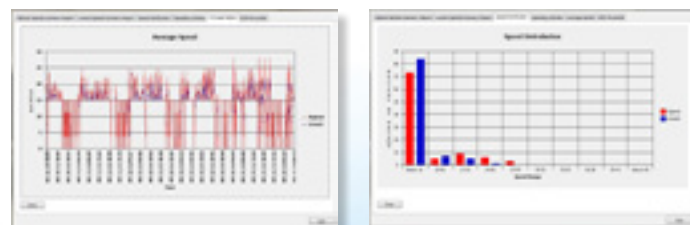- *Bluetooth wireless communication*

The 15" Smart Sign is also available as a Variable Speed Limit sign with data logging and driver feedback (speed awareness) features. When ordering, select VSL.

SafetyCalm™

SafetyCalm™ Configuration and Traffic Data Collection Software allows you to program your sign from your laptop and collect and graphically display traffic data

For technical specifications of this product see chart on page 19

18" Work Zone Driver Feedback Smart Sign

The TraffiCalm Work Zone Series of Radar Driver Feedback Smart Signs offers solutions for increasing driver speed awareness and road safety in the extremely dangerous arena of construction zones. The bright 18" characters can be seen from up to 1,500' away, and help increase driver speed awareness and which better protects road construction workers. SafetyCalm™ data collection software allows you to gather hard data of traffic patterns and program the sign to help keep roads safer.

TraffiCalm Driver Feedback Signs are manufactured in the USA in an ISO 9001:2008 certified facility, meeting and exceeding industry standards and state testing requirements. The 18" TraffiCalm Smart Signs are UL/ULC listed for electric code compliance. TraffiCalm signs are unmatched in durability, accuracy, ease of use and affordability.

Features:
- Available also in 18" Highway version and jumbo size. (Jumbo 18" sign has larger sign face)
- Bluetooth remote programming
- SafetyCalm Configuration and Traffic Data Collection software included free
- Programmable full matrix display allows the sign to display speed numbers as well as messages like 'SLOW DOWN'.
- UL/ULC listed for simple and code compliant installation
- 100% MUTCD compliant
- Solar or 110V AC ready (power packages sold separately)
- K-band (24.15GHz) radar, range 1,000+ feet.
- Unlimited tech support and customer service from our USA facility for the life of the sign
- Fast delivery- typically ships within 5 days of order
- 3 year limited warranty

Package Includes:
Driver Feedback sign, mounting bracket, SafetyCalm™ Configuration and Traffic Data Collection Software, installation and user manual.

Part #: M75-18DFB-0003

- *Full matrix Display*
- *Solar or AC power options*
- *Ideal for 45-90 mph construction zones*
- *Bluetooth wireless communication*

The 18" Smart Sign is also available as a Variable Speed Limit sign with data logging and driver feedback (speed awareness) features. When ordering, select VSL.

For technical specifications of this product see chart on page 21

Driver Feedback Sign Display Trailer

TraffiCalm's Driver Feedback (DFB) signs are an effective tool in decreasing speeds in urban communities, on highways, in school zones, construction sites or special events. Now, with TraffiCalm's new display trailer, traffic calming is even easier. A portable sign operating on solar power or batteries can be moved from place to place, collecting data about traffic that can be downloaded through a wireless Bluetooth connection. The trailer allows for DFB's to be quickly and easily deployed wherever needed,

Features:

- Quick and easy setup
- For use with any of TraffiCalm's Driver Feedback or Variable Speed Limit Signs (sign ordered separately)
- Meets DOT regulations & requirements for safety and road worthiness
- Provisions for batteries up to 350AH.
- Provision for a solar panel mount
- Controls are provided to operate the connections to the solar panel and sign
- Powder coated in white or work zone orange (optional colors available)
- Provided with a cushioned battery mount to reduce vibration and shock to the battery.
- Four stabilizers that drop to grade and are secured by pins providing added stability, securing the sign even in high winds
- Collapsible hitch beam, interconnecting cables and wires routed through the frame or in conduit to protect against vandalism or theft
- Made in the USA

Part #: M75-TRALR-000X

- *Configure with any TraffiCalm Display*
- *Solar, Battery, and AC power included*
- *Ideal for 5-90 mph construction zones*
- *Bluetooth wireless communication*

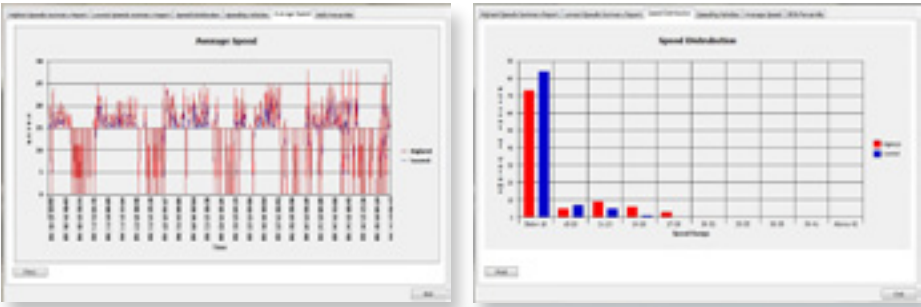| Feature	Specifications
General Specifications	
Weight	390 Lbs. with 240AH Batteries
Size	Folded and ready for travel 72" wide x 84" long (103" w/tongue extended) x 46 Tall. Erected 100" Tall
Tire Size	14"
Color	Powder coated white or work zone orange (optional colors available)
Materials and Construction	
Basic Features	Brake lights and turn signals are provided.
	Metal fenders strong enough to stand on (250 lbs.). Powder coat finish provides resistance to corrosion.
	Tongue is properly sized to ensure easy towing using a 2" ball.
Controls	Control panel provided to operate the connections to the solar panel and sign.
	Battery Voltage Indicator.
Safety/Security	Meets DOT regulations & requirements for safety and road worthiness.
	Safety chains.
	Ball hitch system is stowed & secured when not towing. Hitch beam collapses into trailer body.
Stabilizers	Provided with 4 hand-crank stabilizers that drop to the level of grade & are secured by pins.
	Stow in fully retracted position secured by pins for travel.
Electrical Specifications	
Batteries	Includes 3 Group 24 AGM batteries wired in parallel for a nominal 12VDC.
	Each battery is individually fused.
	Negative terminal of each battery is electrically common to the trailer chassis.
	Cushioned battery mount to reduce vibration and shock felt by the battery.
Charging System	120 Volt primary, 45 Amp 12 VDC secondary on-board charging system.
	Housed in weatherproof chamber separate from battery compartment.
	Sealed from air movement with provisions for thermal transfer, moisture control & drainage.
Solar	130 Watt Solar Panel
	Solar panel is deployed to a position higher than the sign.
	Solar panel stows flat over the sign, level with trailer such that it still has skyward exposure.
	20 Amp Solar charge control device provided (14.4V regulation temperature compensating).
Wiring	Wire is properly sized, rated 90°C min. for wet locations & sunlight resistant.
	All interconnecting cables & wires are routed through the frame or in conduit for protection.
Installed Sign	Sign folds flat over the battery box for travel.

SafetyCalm™ Smart Sign Configuration and Data Collection Software

TraffiCalm's simple but powerful sign configuration software is included free with every Smart Sign. SafetyCalm is a feature rich sign configuration and data collection suite, built into an intuitive, efficient interface. This easy-to-use and license free program is menu driven and comes with a pre-programmed and automatically generated set of reports that provide TraffiCalm Smart Sign owners with an uncomplicated view of speed data statistics. These statistics include average speed, highest and lowest speed summaries, number of speeders by the hour and day and the option to download raw data for additional comparative analysis.

Bluetooth communication allows for convenient sign programming and traffic data collection using a laptop or Android™ device from up to 300 feet away.

Features:
- Free upgrades for the life of the sign, no annual fees or registration fees
- Easily program the sign's speed thresholds, display modes, beacon output, radar sensitivity and even display brightness.
- Ability to schedule the sign display to change by time of day or days of the week.
- Able to program the sign for "Stealth" mode, whereby the sign display is blank, but all traffic data continues to be collected.
- Android version of SafetyCalm software also available (see www.trafficalmsystems.com)
- Able to program words like "Slow Down" or even emoticons on full matrix displays
- Exhaustive, searchable help files built in to the software
- Unlimited tech support from the customer service team at our USA facility

SafetyCalm easily creates graphic charts and visual displays of traffic data according to date and time input. These charts can also be saved and exported for analysis and/or presentations.

Feature	Specifications
Sign Configuration and Programming	
Configuration Interface	Easy to use, select speed thresholds, display modes, feedback characteristics, beacon output, radar sensitivity, and display brightness
Programmable Display Features	Min. speed limit, speed limit, over speed, and maximum speed to display
	Display type: blank (stealth mode), actual speed, speed limit, flashing digits, steady digits, strobing digits and strobing 'SLOW DOWN' text
	Programmable integrated "SLOW DOWN" Message, external beacon control
Multiple-sign Management	Save and implement configurations and schedules. User definable, unique sign location saved in file names and displayed on log-in
Password Protection	Administrator defined passwords and privilege levels
Diagnostics	Current sensor and error reporting from sign displayed and saved to history
Maintenance	Self-test, Set radar baseline, Stream radar readings, reset logs, update firmware
Support	Exhaustive, searchable help file. Phone support and online training available
Traffic Data Collection and Reporting	
Speed Log Reporting	Industry-standard data reporting, highest and lowest speed summaries, speed distribution chart, speeding vehicles by percent and volume, average speed, and 85th percentile report
Event Logging with Time Stamp	Event data: 60 days with a circular buffer, applied voltage (VDC), internal temperature (°C), ambient light (lux), display functional status, traffic status, shock sensor events, parameter events
Vehicle Data Logging Capacity	Speed Data: 90 days with circular buffer (oldest reading replaced by newest) based on 24/7 operation
General Specifications	
Communications	Bluetooth™ Class 1 connectivity (V2.1 +EDC) min at 30' (FCC certified), RS232 port
	App for Android available
System Requirements	Operating system: Windows XP, Windows Vista, Windows 7
	Screen resolution: 1024 x 768 or better
	Communications interfaces: Bluetooth Class 1 or 2 adapters (capabilities: V1.0, V1.2, V2.0, V2.1 + EDC)
	Disk space: 16.5MB minimum

TraffiCalm product descriptions and specifications are subject to change without notice. All Rights Reserved
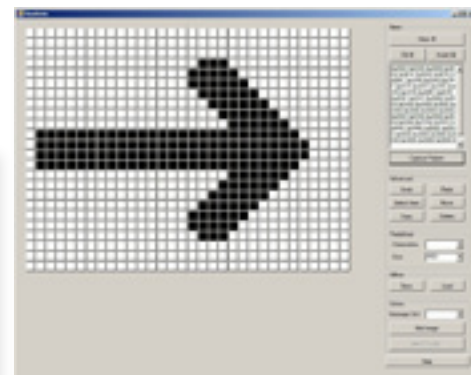
Scalable Dynamic Message System

TraffiCalm's Scalable Dynamic Message System™ is an effective tool in increasing safety for communicating critical information to drivers. Made to adapt to a wide variety of roadways and installation requirements, the SDMS is ready to suit your application.

On the fly programming is quick and painless through a Bluetooth link via your laptop, mobile device or remote.

Features:

- Features high output amber 15 degree LED pixels
- Scalable to display dynamic text and graphics
- Operates on 12 Volts DC
- Many pre-programmed common messages selectable through your mobile or PC device, or remote controller
- Powder coated black NEMA 3R cabinet
- Highway Gothic Font
- Made in the USA

Call to make custom order

- *Configure to desired size using modular system*
- *Retrofit to current installations*
- *Solar and AC power options*
- *Bluetooth wireless communication*

SafetyCalm™ configuration software allows you to easily change the message on the sign according to changing traffic, weather, or circumstances. Programming is done using your laptop, Android™ smartphone or tablet device with Bluetooth connection.

Power Options

Solar Kits: The most economical & environmentally friendly power option.

- 60W Solar Kit with 1 battery (AGM lead acid 12V 35AH) mounting bracket, battery box with charge controller, and conduit/wiring. (part no. M75-SOLAR-000C)
- 85W Solar Kit with 2 batteries (AGM lead acid 12V 35AH) mounting bracket, battery box with charge controller, and conduit/wiring. (part no. M75-SOLAR-000S)
- 130W Solar Kit with 4 batteries (AGM lead acid 12V 35AH) mounting bracket, battery box with charge controller, and conduit/wiring. (part no. M75-SOLAR-000C)

AC Power Module: For use when 120V AC line power is readily available.

Battery Charger Kit: For use with "block lit" street light power where power is only on at night. Sign draws on the battery during the day, and then charges from the street light power during the night. *Special Note: Not for use with photo cell operated street lights.*

Battery Box: For use in portable short-term applications (includes batteries).

Small Solar Kits

Large Solar Kits

Other Accessories

Cables: Connect internally to sign to allow wired communication with PC equipped with SafetyCalm software.

- RS-232 communication cable for Smart signs. Requires USB adapter for use on PC with no RS-232 port.
- RS-232 communication cable for 15" Smart Sign. Requires PC with RS-232 port

Brackets: Pole-side brackets for expanded, multi-site mobility; 2-bolt design makes removal and installation quick and easy.

- 9" Smart Sign bracket (015-02331-0000)
- 9" Value and Portable Sign bracket (015-02985-0000)
- 12" Sign bracket (015-02991-0000)

SafetyCalm Android App: Feature-rich mobile complement to the SafetyCalm software. Capabilities include fully-featured configuration interface, schedule uploading, speed log downloading, and more. Compatible with Android devices, including tablets.

AC Power Modules
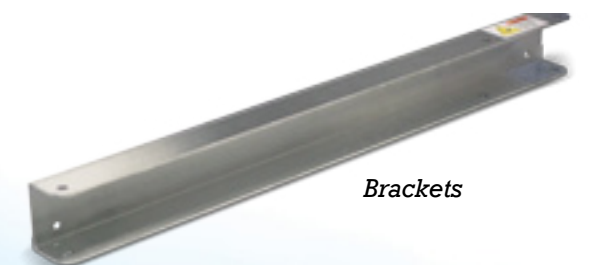
Communication Cables

Brackets

Value Signs vs. Smart Signs

Value Signs

Designed as a "turn-key" driver feedback sign, TraffiCalm *Value Signs* provides driver feedback and traffic calming functionality without the additional cost of data collection capability and the more advanced display which TraffiCalm *Smart Signs* include. Solar package is included along with IR remote programming.

Smart Signs

TraffiCalm *Smart Signs* provide a wide array of options for data collection and customization. Full matrix programmable display allows for graphics or alternate messages along with clean, readable numbers. Powerful *SafetyCalm ™* traffic data collection software is included at no additional cost.

Features	STREET & PORTABLE series				ROADWAY series		HIGHWAY series		WORK ZONE series	
	9" Value Sign	9" Smart Sign	12" Value Sign	12" Smart Sign	14" Smart Sign	15" Smart Sign	18" Smart Sign	18" Jumbo Smart Sign	15" Smart Sign	18" Smart Sign
Optimal Road Speed	5-25 MPH	5-25 MPH	5-35 MPH	5-35 MPH	25-50 MPH	25-50 MPH	45-90 MPH	45-90 MPH	25-50 MPH	45-90 MPH
Housing Dimensions	18"w x 24"h 22.7 lbs	18"w x 24"h x 1 7/8"d 10 lbs	24"w x 30"h 28 lbs	24"w x 30"h 15 lbs	24"w x 36"h x 2 3/4"d 46 lbs	30"w x 41"h x 3"d 36 lbs	36"w x 48"h x 2 3/4"d 60 lbs	48"w x 60"h x 4"d 90 lbs	30"w x 41"h x 3"d 36 lbs	36"w x 48"h x 2 3/4"d 60 lbs
LED Display	88	88 SLOW DOWN	88	88 SLOW DOWN	88 SLOW DOWN	88	88 SLOW DOWN	88 SLOW DOWN	88	88 SLOW DOWN
Sign Legibility Distance	450 ft	450 ft	600 ft	600 ft	700 ft	750 ft	1000 ft	1000 ft	750 ft	1000 ft
Programming input	IR Remote 30' range	Bluetooth 300' range	IR Remote 30' range	Bluetooth 300' range	Bluetooth 300' range	Bluetooth 300' range	Bluetooth 300' range	Bluetooth 300' range	Bluetooth 300' range	Bluetooth 300' range
Capable of Collecting Traffic Data (SafetyCalm software included)		●		●	●	●	●	●	●	●
External output port (to control beacons, cameras, etc)	●	● also RS-232 port	●	● also RS-232 port	● also RS-232 port	● also RS-232 port	● also RS-232 port	● also RS-232 port	● also RS-232 port	● also RS-232 port
Programmable Integrated Strobe						●			●	
Stealth Mode (for collecting data when LEDs are off)		●		●	●	●	●	●	●	●
Power Package	20w Included*	Solar/AC Ready	20w Included*	Solar/AC Ready	Solar/AC Ready	Solar/AC Ready	Solar/AC Ready	Solar/AC Ready	Solar/AC Ready	Solar/AC Ready
Modular Design for Easy Service		●		●	●	●	●	●	●	●

Android is a trademark of Google, Inc. TraffiCalm product descriptions and specifications are subject to change without notice. All Rights Reserved
* Note: Solar package is not included with Portable Value Signs

ISO 9001 Certified System • ATSSA SAFER ROADS SAVE LIVES • UL • ULC