

WWD-MX

Connected Wrong-Way Driving Signs

Improve driver awareness and prevent collisions with configurable high-intensity connected LED signs and beacons that encourage self-correction during wrong-way driving incidents. Add optional radar to trigger additional warnings and record data for analysis.

- ✓ Every system ships with **3 years of free remote connectivity**
- ✓ Actionable email and text alerts to notify of wrong-way event or other issues
- ✓ Remote system access via MX Cloud™
- ✓ Quick setup and local access with MX Field App™ (iOS/Android)
- ✓ 'Smart module' design for simple installation and richer data
- ✓ Solar Power Report (SPR) available for every location

Free out-of-the-box connectivity

WWD-MX systems have connectivity embedded into their design, making installation easy. From the moment a system receives power, it connects both locally to the MX Field App and remotely to MX Cloud, providing easy remote access to system status, settings and data.

Operating Modes

Signs or beacons can be configured to flash 24-hours or trigger with optional radar.

Comprehensive asset visibility and data collection

All MX systems come with MX Cloud, a web-based application that lets users remotely access system locations, alerts, settings and data. The GPS map gives cities better visibility and enables streamlined, proactive asset management and future planning.

Long-lasting, reliable operation

Every MX module is built to last with durable, weatherproof aluminum construction and vandal-resistant wireless antennas. Solar-powered models are solar-sized to project locations, backed by a Solar Power Report (SPR) to demonstrate year-round sustainability.



Configurable to MUTCD Standards



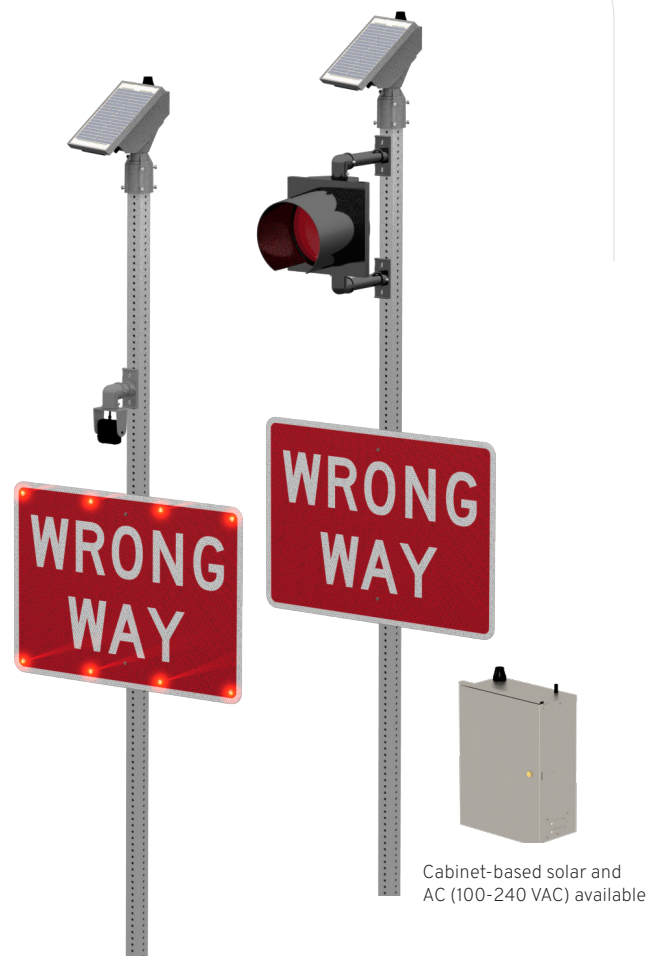
Buy America/BABA compliant



3-year limited warranty



carmanah®
MX Series



Cabinet-based solar and AC (100-240 VAC) available

MX Series Connective Capabilities



MX CLOUD
(REMOTE)



MX FIELD APP
(LOCAL)

What's a Solar Power Report™ (SPR)?

No matter where you install your solar-powered system, your product should be carefully sized for its location to ensure it will be operational for the long-term.

Our field-proven software simulation tool, developed over 20+ years, replicates real-life conditions at your project location to determine the optimal solar-powered solution.

Learn more about our process at carmanah.com/spr.

WWD-MX

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carmanah® MX Series

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MX FLASHER MODULES

MX Beacon Module



MX LED Sign Modules: R5-1a, R5-1



MX Beacon Module	Configurable to MUTCD 11th Ed. (Chapter 4S.05) Standards 12" (305 mm) or 8" (203 mm) diameter LED modules, red Yellow or black heads in UV-resistant polycarbonate or aluminum
MX LED Sign Module	Meets MUTCD 11th Ed. (Chapter 2A.12) Standards 3M High Intensity Prismatic or Diamond Grade retroreflective sheeting and components UV-resistant polycarbonate channels and waterproof housings protect wiring; includes fully integrated junction box Standard 42" signs

OPTIONAL: SINGLE ZONE RADAR UNIT



24 GHz radar unit detects wrong-way vehicles
Radar technology for accurate detection at night and in adverse weather conditions
Adjustable radar parameters, such as detection speed, sensitivity, trigger event settings and duration, and others
3rd-party tested radar detection range to 1000 ft
Universal bracket mounts to pole with standard banding, through bolts, U-bolts, band clamps, and more

MX FLASHER MODULE MOUNTING (others available)

Single - Integrated

Dual - Vertical

Dual - Horizontal



Standard Banding

Through Bolt

U-Bolt



INCLUDED WITH EVERY SYSTEM

MX Subscriptions	3 years out-of-the-box remote connectivity with MX Lite See all MX subscriptions
MX Cloud	MX Cloud for remote health status monitoring, email/SMS alerts, scheduling, asset management, programming and more
MX Field App	Bluetooth® mobile app for on-site setup, local access to default settings, calendar scheduling, system health status and more
Warranty	3-year limited warranty on MX system 1-year limited warranty on batteries
Support	Carmanah's North American product support technologists available for solution building, solar sizing and troubleshooting 24/7 access to Carmanah's online Product Support Center

MX POWER MODULES

Solar	12 VDC operation, solar sized to specific geographic location Includes 12-month Solar Power Report to ensure sustainability System designed for 5+ year battery life Replaceable, recyclable, sealed, maintenance-free AGM batteries offer the widest temperature range and longest life
AC (only MX 300/400)	100-240 VAC in standard configurations
Construction	Weatherproof, gasketed enclosure with vents for ambient air transfer (NEMA 3R) Lockable door Cabinet systems include Type II lock option (standard for MX 400) Corrosion-resistant aluminum with stainless steel hardware Raw aluminum finish or black powder-coated

	MX 100	MX 200	MX 300	MX 400
Type	Integrated solar + battery 	Integrated solar + battery 	Separate solar + cabinet 	Separate solar + cabinet
Housing Dimensions & Weight (w/o batteries)	12.6 x 13.6 x 5.3" 320 x 345 x 135 mm 5 lb (2.3 kg)	30 W version: 18.3 x 15.7 x 5.8" 465 x 399 x 147 mm 11 lb (5.0 kg) 50 W version: 18.3 x 26.3 x 5.8" 465 x 668 x 147 mm 14 lb (6.4 kg)	16.7 x 11.3 x 7.0" 424 x 287 x 178 mm 10 lb (4.5 kg) AC version weight: 12 lb (5.4 kg)	21.9 x 16.1 x 8.3" 556 x 409 x 211 mm 19 lb (8.6 kg) AC version weight: 21 lb (9.5 kg)
Mount Kits	Top of Pole Mount 	Side of Pole Mount 	Top of Pole Mount 	Side of Pole Mount
Batteries	1-2x 7 Ah	1-2x 18 Ah	1x 18, 35 or 55 Ah	1x 35, 55 or 100 Ah
Solar	15 W	30 or 50 W	50, 80 or 170 W	50, 80 or 170 W
Solar Dimensions & Weights	See housing dimensions above	See housing dimensions above	50 W: 26.3 x 21.2" (668 x 538 mm) 10 lb (4.5 kg) 80 W: 30.7 x 26.5" (780 x 672 mm) 13 lb (5.9 kg) 170 W: 59.1 x 26.3" (1500 x 668 mm) 25 lb (11.3 kg)	

WIRELESS COMMUNICATION AND DATA COLLECTION

Local	MX Field App (Bluetooth®)
System-To-System	Linked MX systems flash in sync up to 1,000 ft (305 m) away
Remote	MX Cloud (cellular)
Location & Time	GPS

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