

R920-MX

Connected Crosswalk Beacon or Sign

Boost safety at unsignalized crossings with proven technology, actionable alerts, and street-level data.

- ✓ Every system ships with **3 years of free remote connectivity**
- ✓ Actionable email and text alerts
- ✓ 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

R920-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. RRFB systems come with default settings that meet MUTCD Standards, including wig-wag plus simultaneous (WW+S) flash pattern.

Timely and actionable alerts

Cities can enable email and text alerts so they can know the minute there's an issue, be it a knockdown, dead battery or something else. Detailed location and module information reduce downtime and boost site visit efficiency while providing optimal citizen safety.

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 like daily activation counts. The GPS map not only gives cities better visibility, but enables streamlined, proactive asset management and future planning.

Long-lasting, reliable operation

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



Meets MUTCD Standards



Buy America/BABA compliant



3-year limited warranty



carmanah®
MX Series



Rectangular rapid flashing beacon (RRFB) shown

MX Series Connective Capabilities



MX CLOUD
(REMOTE)



MX FIELD APP
(LOCAL)

R920-MX

Connected Crosswalk Beacon or Sign



carmanah® MX Series

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MX FLASHER MODULES



MX RRFB Module



MX Beacon Module



MX LED Sign Module

| | |
|--------------------|---|
| MX RRFB Module | <p>Meets MUTCD approval (IA-21) and MUTCD (Canada) Standards</p> <p>Purpose-built optics exceed SAE J595 class 1 intensity by 2.5-3x when used as recommended; meet SAE J578 chromaticity</p> <p>3 in (76 mm) x 7 in (178 mm) clear, UV-rated polycarbonate lens with yellow LEDs and side-emitting pedestrian confirmation LEDs</p> <p>Stainless steel mounting brackets make back-to-back installation simple and enable in-field aiming for maximum effectiveness</p> <p>Yellow or black powder-coated light bar covers</p> <p>Light bar configuration: uni-directional or bi-directional</p> <p>RRFB backplate and mast arm mount available</p> <p>In-field aiming: rotate the light bar towards the incoming vehicle lane, independent of the wire hole location</p> |
| MX Beacon Module | <p>Meets MUTCD Standards: 2009 MUTCD, Chapter 4L, Flashing Beacons</p> <p>Meets ITE recommendations for signal intensity and distribution</p> <p>12" (305 mm) or 8" (203 mm) diameter LED modules, yellow</p> <p>Yellow or black heads in UV-resistant polycarbonate or aluminum</p> <p>Side of pole arm and top of pole mount kits available</p> |
| MX LED Sign Module | <p>Meets MUTCD LED requirements for color, flash rate and dimming</p> <p>3M High Intensity Prismatic or Diamond Grade retroreflective sheeting and components</p> <p>UV-resistant polycarbonate channels and waterproof housings protect wiring; include fully integrated junction box</p> <p>Standard 30" and 36" W11-2 and S1-1 sign sizes (others available)</p> <p>Standard yellow and fluorescent yellow-green sign colors available</p> <p>Standard banding, through bolt and U-bolt mount kits available</p> |
| Options | <p>Accessible Pedestrian Signals (APS) push button station</p> <p>Overhead lighting fixture</p> <p>Passive pedestrian detection</p> |

WIRELESS COMMUNICATION AND DATA COLLECTION

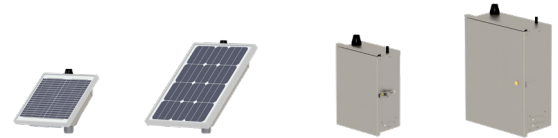
| | |
|------------------|---|
| Local | MX Field App (Bluetooth®) |
| System-To-System | Linked MX systems flash in sync up to 1,000 ft (305 m) away |
| Remote | MX Cloud (cellular) |
| Location & Time | GPS |

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, 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 |
| Customize | Build an R920-MX online (coming soon) |

MX POWER MODULES

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



| | 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) | <p>30 W version: 18.3 x 15.7 x 5.8" 465 x 399 x 147 mm 11 lb (5.0 kg)</p> <p>50 W version: 18.3 x 26.3 x 5.8" 465 x 668 x 147 mm 14 lb (6.4 kg)</p> | <p>16.7 x 11.3 x 7.0" 424 x 287 x 178 mm 10 lb (4.5 kg)</p> <p>AC version weight: 12 lb (5.4 kg)</p> | <p>21.9 x 16.1 x 8.3" 556 x 409 x 211 mm 19 lb (8.6 kg)</p> <p>AC version weight: 21 lb (9.5 kg)</p> |
| Mount Kits | <p>Top of Pole Mount</p> <p>Side of Pole Mount</p> | <p>Top of Pole Mount</p> <p>Side of Pole Mount</p> | <p>Top of Pole Mount</p> <p>Side of Pole Mount</p> | <p>Top of Pole Mount</p> <p>Side of Pole Mount</p> |
| 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 | <p>50 W: 26.3 x 21.2" (668 x 538 mm) 10 lb (4.5 kg)</p> <p>80 W: 30.7 x 26.5" (780 x 672 mm) 13 lb (5.9 kg)</p> <p>170 W: 59.1 x 26.3" (1500 x 668 mm) 25 lb (11.3 kg)</p> | |

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