HARDING TRAFFIC

HTL ELECTRONIC WARNING SIGN (EWS)

Model: MV LEWS / MV SEWS

MV LANDEWS / MV SINEWS

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About Us

At Harding Traffic, we are more than just a company; we are pioneers in traffic control solutions with a rich history dating back to 1966 when Harding Signals was incorporated. This marked our venture into electronic traffic signals.

In 1997, our area of operations moved away from Traffic Signals and into Electronic Signage and Traffic Management Systems. To reflect this, we changed our name to Harding Electronic Signals Ltd. Harding Traffic's integration into the Traffitech Group in 2007 marked a new era of growth, joining a group of companies boasting a robust financial standing with $45 million in revenue, assets exceeding $20 million, and a dedicated team of 180 staff and 6 locations across New Zealand.

Our journey has been marked by a steadfast dedication to innovation and quality, leading the charge in traffic control technology. With 1000's of the country's traffic signs installed by Harding Traffic over 27years, our impact is undeniable. Yet our ambition extends beyond electronic traffic signs; we've become a comprehensive provider of traffic management/warning systems, car park solutions, integrated traffic management solutions, data capture and analytics along with so much more. We are committed to enhancing urban infrastructure with our cutting-edge solutions.

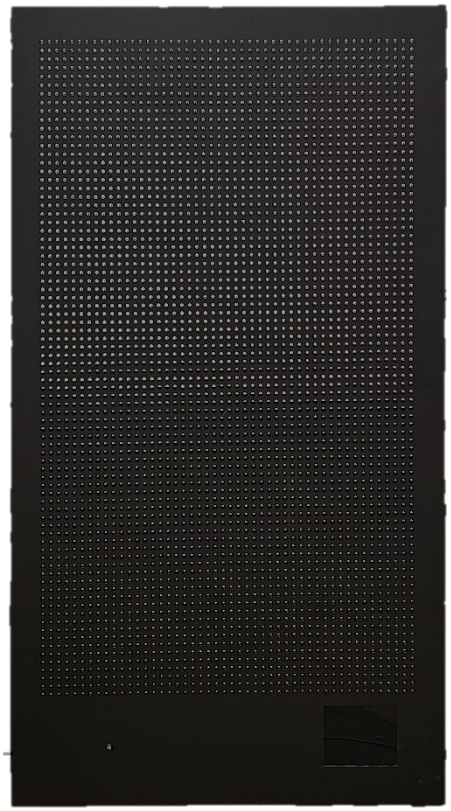
Today, Harding Traffic stands as a testament to over 50 years of expertise in the traffic industry. Our capabilities extend across the design, manufacture, and installation of high quality, specialised traffic systems. This includes everything from Motorway signs and School Zone signs to Rural Interchange Advance Warning Signs, Illuminated Road Stud technologies, car park systems, electronic waning systems and off-street signage. We take pride in serving a diverse clientele that includes NZTA, local Councils and authorities, commercial entities and contractors.

Quality Guaranteed

Harding Traffic holds AS/NZS 4801 Health and Safety Management certification, ISO 9001 manufacturing quality certification and ISO 14001 Environmental Management System certification. These certifications represent Harding's commitment to providing a consistently high level of service, delivery quality products based on sound management and process controls.

Standard Features

Electronic Warning Sign



Traditional static road signs often lose their effectiveness over time, especially for motorists who pass the same sign regularly.

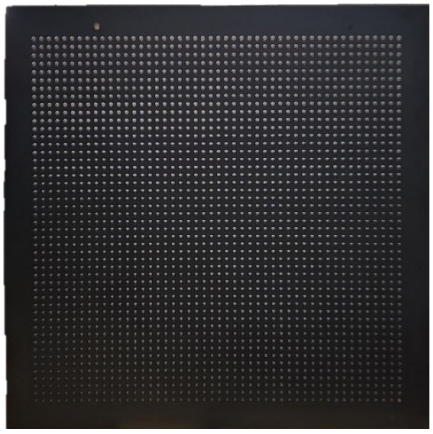
Harding Traffic's Electronic Warning Sign (EWS) offers a dynamic solution, capable of functioning as an Active Warning Sign or a Driver Feedback Sign with fully customisable images and text.

Key Benefits

- **Customisable**: The EWS can be configured to display messages or images or both.
- **Versatile Applications**: It can also be configured as a **Speed Indication Device (SID)** to display vehicle speeds, helping to reduce excessive speeds in high-risk areas.
- **Adaptive Brightness**: Equipped with an advanced photoelectric sensor, the EWS automatically adjusts LED brightness to match ambient lighting, ensuring visibility in all conditions while reducing light pollution. For specific needs, manual brightness adjustments are also available.
- **Efficient and Independent Operation**: Powered by solar energy and wirelessly activated, the EWS eliminates the need for costly power and communication line installations.

Compliance and Quality

- Complies with EN12966, the industry standard preferred in New Zealand, ensuring an optimized "viewing window" that prevents unnecessary light overspill and enhances visibility for oncoming traffic.
- Meets NZTA ITS-SPEC-AWRS-202402, the specification for Active Warning and Regulatory Signs.



Features

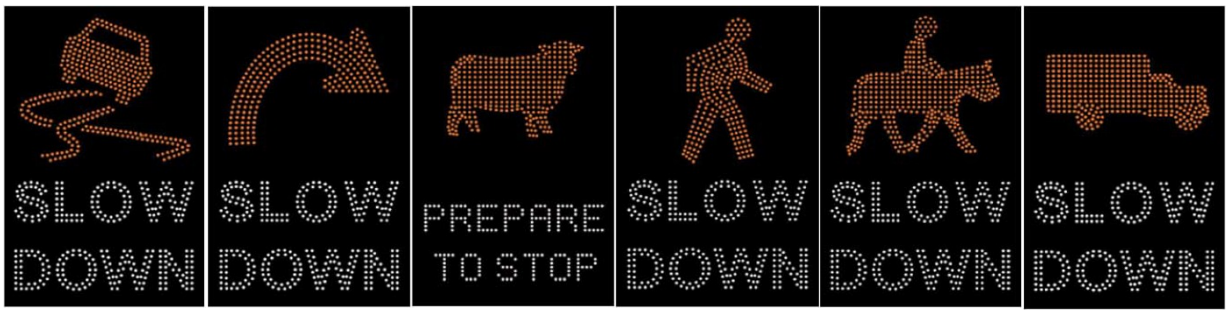
- **LED Technology**: Low power consumption and minimal maintenance costs.
- **Full-Matrix Display**: Delivers clear, customisable messaging.
- **Radar Integration**: Optional Internal radar for large EWS
- **Flexible Power Options**: Operates on solar power or 230V mains power.

Sign Specifications

Large Electronic Warning Sign

- **HTL Code:** MV LEWS
- **Pixel Pitch:** 16mm
- **Viewing Angle:** 30 degrees
- **LED Colour Specification:** EN 12966:2014
- **LED Optical Performance:** EN 12966:2014
- **Enclosure Rating:** IP56
- **Cabinet Dimensions:** 888mmW x 1560mmH x 180mmD (Portrait)
- **LED Display Dimensions:** 768mm W x 1280mm H
- **Pixel Resolution:** 80 (H) x 48 (W)
- **Cabinet Colour:** Powder coated black front with aircraft grey on side and rear
- **Cabinet Material:** Aluminum
- **Sign Maintenance:** Rear access
- **Weight:** Approx. 55Kg (Sign only)
- **Sign Design Life:** 10 years
- **Warranty Period:** 12 months
- **Ambient Light Sensor:** Yes
- **Operating Voltage:** 12-24 V VDC solar option or 230 V AC mains option

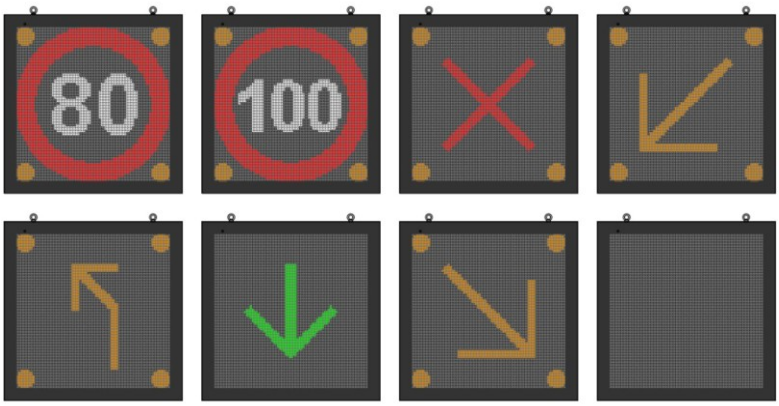
Display Options

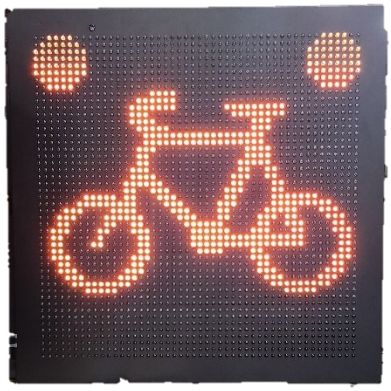


Sign Specifications

Small Electronic Warning Sign

- **HTL Code:** MV SEWS
- **Pixel Pitch**: 16mm
- **Viewing Angle:** 30 degrees
- **LED Colour Specification:** EN 12966:2014
- **LED Optical Performance:** EN 12966:2014
- **Enclosure Rating:** IP56
- **Cabinet Dimensions:** 888mmH x 888mmW x 180mmD
- **LED Display Dimensions:** 768mm wide x 768mm high
- **Pixel Resolution:** 48 (H) x 48(W)
- **Cabinet Colour:** Powder coated black front with aircraft grey on side and rear.
- **Cabinet Material:** Aluminium
- **Sign Maintenance:** Rear access
- **Weight:** Approx 27kg (Sign only)
- **Sign Design Life:** 10 years
- **Warranty Period:** 12 months
- **Ambient Light Sensor:** Yes
- **Operating Voltage:** 12-24 V VDC solar option or 230 V AC mains option





Sign Specifications

Landscape Electronic Warning Sign

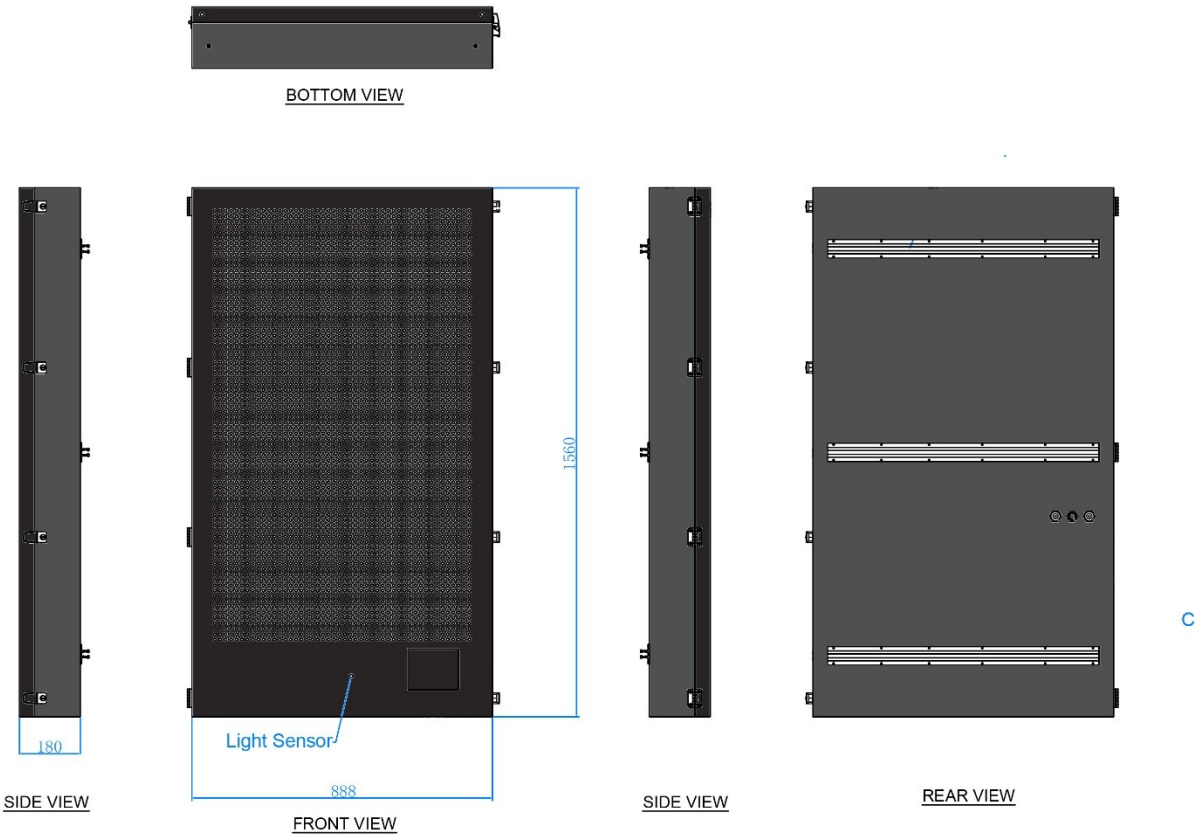
- **HTL Code:** MV LANDEWS
- **Pixel Pitch**: 16mm
- **Viewing Angle:** 30 degrees
- **LED Colour Specification:** EN 12966:2014
- **LED Optical Performance:** EN 12966:2014
- **Enclosure Rating:** IP56
- **Cabinet Dimensions:** 930mmH x 1700mmW x 180mmD
- **LED Display Dimensions:** 1536mm wide x 768mm high
- **Pixel Resolution:** 48 (H) x 96(W)
- **Cabinet Colour:** Powder coated black front with aircraft grey on side and rear.
- **Cabinet Material:** Aluminium
- **Sign Maintenance:** Front Access
- **Weight:** Approx 65kg (Sign only)
- **Sign Design Life:** 10 years
- **Warranty Period:** 12 months
- **Ambient Light Sensor:** Yes
- **Operating Voltage:** 12-24 V VDC solar option or 230 V AC mains option

Sign Specifications

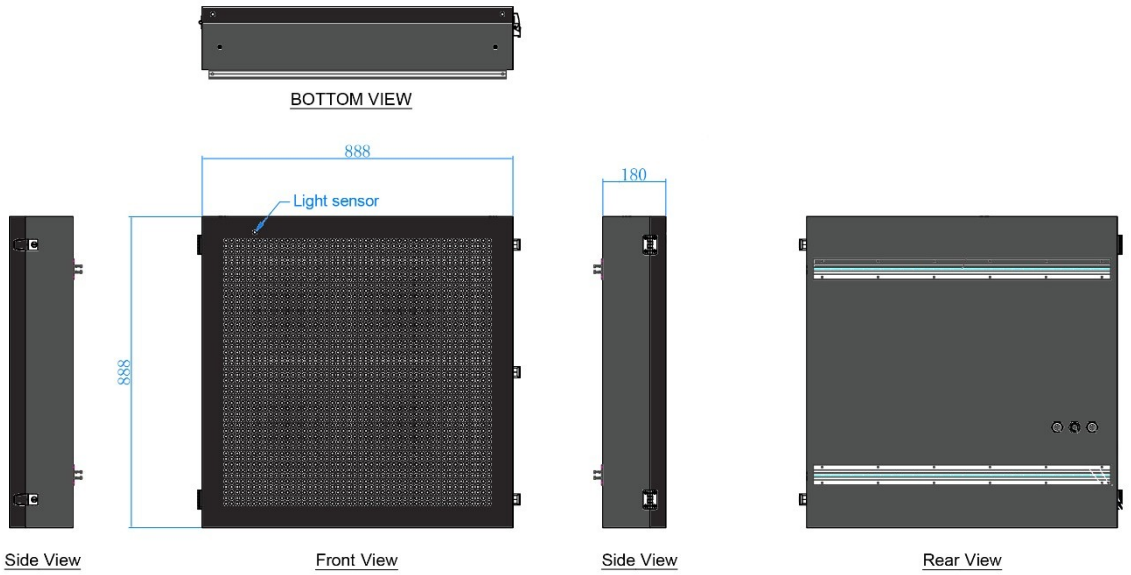
Single Line Electronic Warning Sign

- **HTL Code:** MV SINEWS
- **Pixel Pitch**: 16mm
- **Viewing Angle:** 30 degrees
- **LED Colour Specification:** EN 12966:2014
- **LED Optical Performance:** EN 12966:2014
- **Enclosure Rating:** IP56
- **Cabinet Dimensions:** 418mmH x 1700mmW x 180mmD
- **LED Display Dimensions:** 1536mm wide x 256mm high
- **Pixel Resolution:** 16 (H) x 96(W)
- **Cabinet Colour:** Powder coated black front with aircraft grey on side and rear.
- **Cabinet Material:** Aluminium
- **Sign Maintenance:** Rear access
- **Weight:** Approx 30kg (Sign only)
- **Sign Design Life:** 10 years
- **Warranty Period:** 12 months
- **Ambient Light Sensor:** Yes
- **Operating Voltage:** 12-24 V VDC solar option or 230 V AC mains option

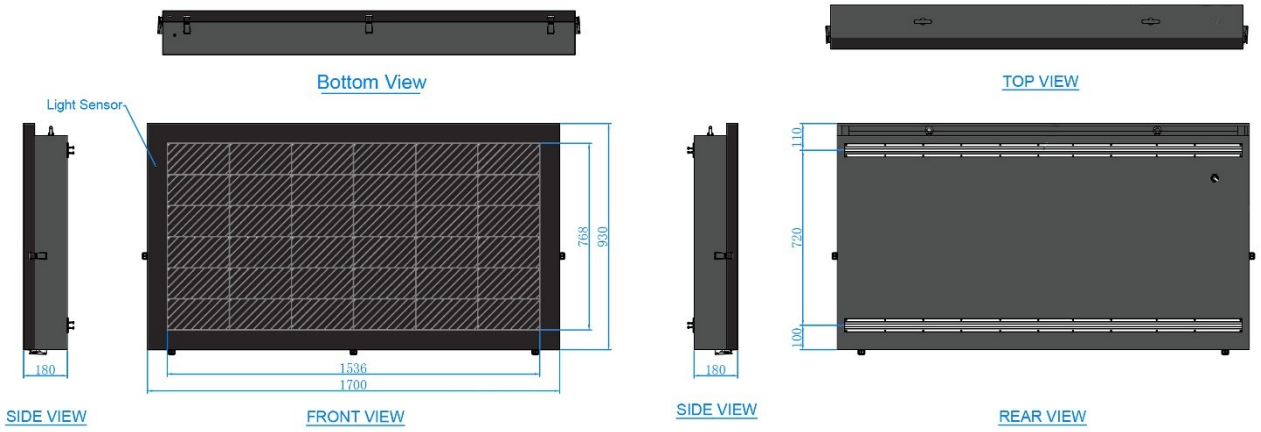
Drawing Of Large EWS



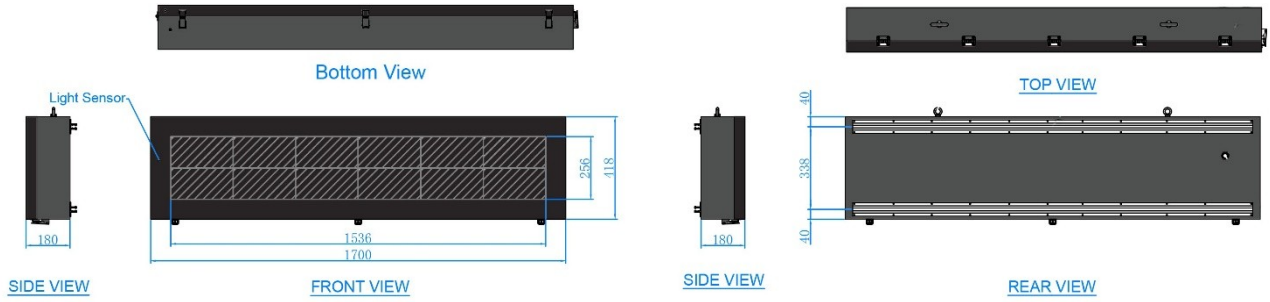
Drawing Of Small EWS



Drawing Of Landscape EWS



Drawing Of Single Line EWS



Additional Options

LOCAL ELECTRONIC SIGN CONTROLLER

Take control of your traffic signs with the cutting-edge Local Sign Controller, designed to make managing your signs easier than ever. Whether you're automating sign schedules or manually adjusting them for special events, this controller offers the flexibility and reliability you need. Adjustments can be made conveniently on your phone, tablet, or PC.

- **HTL Code:** MV ESCONTRL
- **Housing Dimensions:** 218mm wide x 163mm high x 60m deep
- **Weight:** 1kg
- **Operation Modes:** 5-day weekly scheduler with 10-minute override
- **Effective operating range:** 2000 meters (line of sight)
- **Operating Voltage:** 230V AC Plug-in Power Supply

The controller will need to be mounted indoors at a building site approx. 2000meters from the signs

OVERSITE VMS

Take complete control of your sign messaging with the HTL OverSite VMS platform. Designed for simplicity and reliability, this remote-access system allows you to update and manage Variable Message Signs from anywhere via a secure Windows interface. Whether you're sending real-time alerts, activating pre-saved messages, or managing multiple sign libraries, OverSite puts powerful control at your fingertips, with no technical expertise required. Smart, flexible, and efficient.

- Remote Sign Control Anywhere, Anytime
- Easy Message Management
- Multi-Sign Library Support

Sign conversion to VMS protocol required for OverSite VMS.

SMART SIGN

Harding Sign Monitor "Smart Sign" is an innovative traffic management software accessible via the Internet. This innovative solution empowers users to effortlessly oversee and control numerous devices within the software providing real-time status updates and enabling the transmission of content to the equipment.

- Real-time sign status and health monitoring
- Battery levels and solar performance
- Setting Schedules for Term Holiday's and Teacher only days
- Automated Daylight savings time changes
- Optional Radar module in combination with our radar option will allow you to download traffic data that includes vehicle speeds

SOLAR POWERED BATTERY/SOLAR KITS

At Harding Traffic, our solar systems are meticulously tailored to complement every sign variant. Designed for optimal efficiency, our solar systems are meticulously calibrated to sustain a sign's power requirements for up to two days without sunlight, while efficiently rejuvenating the batteries within a single standard day of sunlight exposure. These systems incorporate state-of-the-art solar power components, all discreetly housed within the sign itself (batteries included) ensuring utmost security through the sign's locking mechanism. What's more, the solar panel is seamlessly affixed atop the very pole that supports the sign, providing an integrated and efficient solution.

- **HTL Code:** MV IBSKL100**,** MV IBSKL200
- **Solar Capacity (Nominal):** 100w or 200w
- **Junction Box:** IP67
- **PV Cells:** Mono-crystalline silicon cell per panel
- **Dimensions:** Varied depending on option
- **Front Glass:** 3.2mm, low iron, tempered glass
- **Operating temperature** -40°C to ~ 85°C
- **Battery Voltage:** 12V
- **Storage Capacity (Battery)** From 20ah, depending on setup.
- **Battery Type** VRLA

Low sunlight areas (less than 8 nominal hours of sunlight per day) signs will be required to upgrade their solar requirements.

200AH WITH 400W SOLAR

- **HTL Code**: MV EBSKL400 (Field Cabinet)
- **Battery Box Cabinet Size**: 1075H x 750W x 620Dmm
- **Cabinet IP Rating:** IP66
- **Total Batteries:** 2 x 100ah Lithium
- **Solar Charger:** MPPT 40A
- **Solar Panel Size:** 1200H x 540W x 35Dmm x 4
- **Solar Max Power Voltage:** 18 V
- **Solar Max Power Current:** 5.56 A
- **Solar Power Tolerance:** 0~3W
- **Solar Cells:** Monocrystalline Silicon Cells
- **Solar Front Face:** 3.2mm, Low Iron, Tempered Glass
- **Solar Junction Box:** IP67
- **Solar Operating Temp:** -40 °C∽ +85°C

MAIN'S POWERED KITS

Harding Traffic's Mains Power Ready kit is integrated directly into the sign, including all necessary components to establish a safe and controlled mains power supply for our wide range of active signs.

- **HTL Code:** MV MAINSP2
- **Output DC Voltage:** 12V
- **Input Voltage Range:** 88 ~ 264 VAC / 124 ~ 370VDC
- **Working Temp:** -30°C to +70°C
- **Protections:** Short circuit / Overload / Over voltage / Over temper

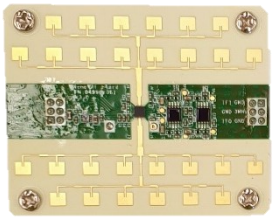
SPEED RADAR

Harding Traffic have thoroughly investigated the global Radar market, seeking the most reliable

and cost-effective solutions to incorporate into our Electronic Warning Signs. We now have a range of options to suit all roading / traffic scenarios, catering for urban, rural and motorway speed considerations.

Short Range

- **HTL Code:** MV INRAD100
- **Radar Range:** Up to 100m2
- **Direction options:** Bidirectional
- **Radar Frequency:** 24.15GHz
- **Accuracy:** ±1kph
- **Operating temperature:** 30°C to +70°C
- **Speed Detection Range:** 5kph to 350kph



Long Range

- **HTL Code:** MV INRAD600
- **Radar Range:** 360m typical detection range[1]
- **Direction options:** Bidirectional
- **Radar Frequency:** 24.125GHz centre +/- 25Mhz
- **Accuracy:** +/- 0.5%
- **Operating temperature:** -40°C to +85°C
- **Speed Detection Range:** 1kph to 331kph
- **Interface:** Primary and Auxiliary RS232

1. Factory programmable and location dependant