



Weigh-in-Motion (WIM) Solutions



www.nwigroup.com.au

www.nwiweighbridges.com.au

**World-class precision,
locally delivered.**

How do WIM systems work?

Weigh-in-motion systems are designed to capture and record the axle weights and gross vehicle weights as vehicles drive over the weighing platform, as the name suggests.

The main benefit of this system is increased efficiency with the ability to have a continuous stream of traffic driving over the weighbridge. In the case of commercial vehicles, a WIM system allows for trucks under the weight limit to bypass static scales or inspection.

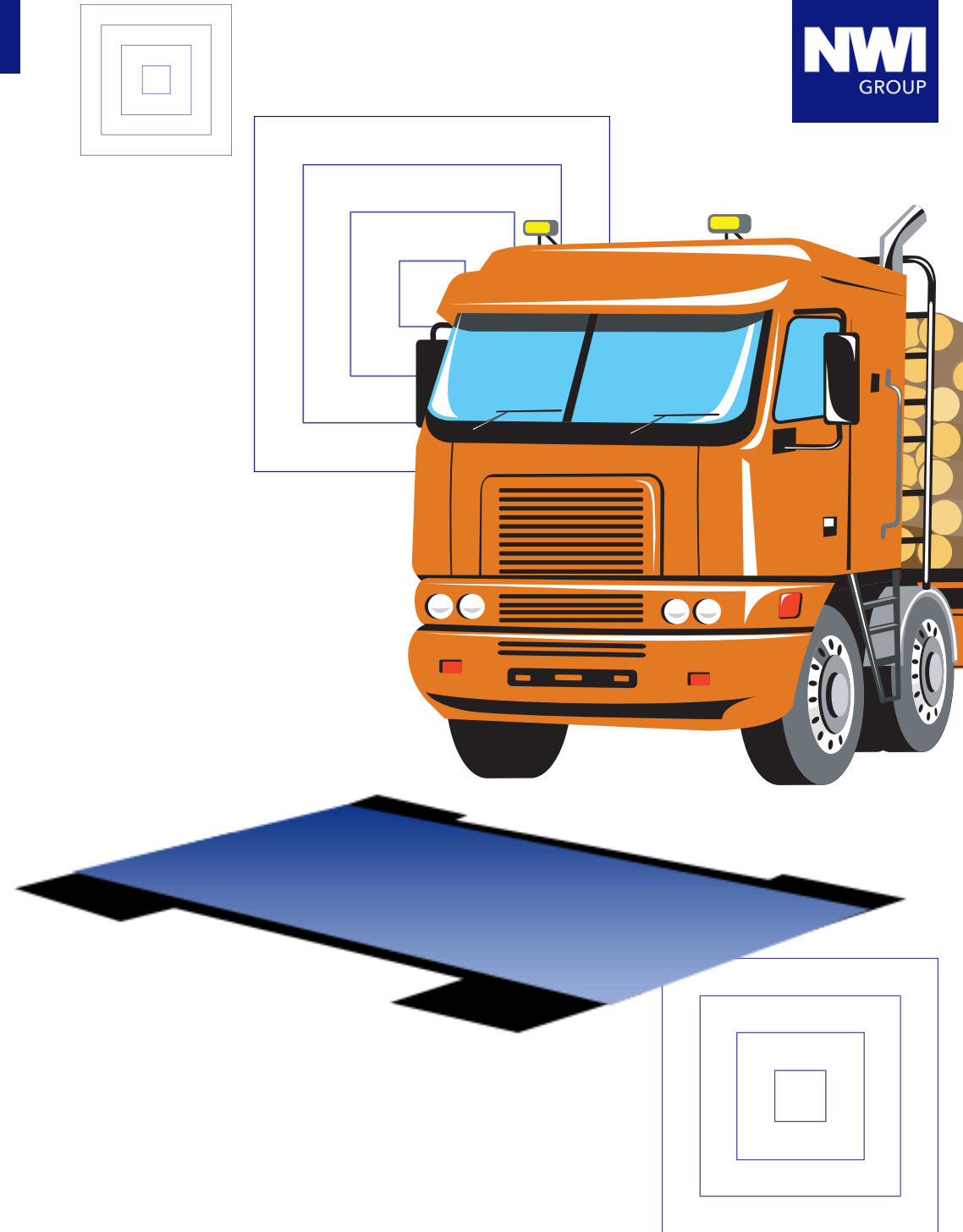
There are two types of Weigh-in-motion systems:

Highway Systems

In the instance a vehicle is suspected as being overweight, the WIM scale and controller will direct any overweight/suspected overweight vehicle to a static scale for further weighing and inspection. This leaves the WIM scale system free to continue weighing traffic, increasing the efficiency of site operations.

Private Systems

(WIM) weighbridges are a convenient and efficient solution for private sites that require a system for checking the weight of axle weights, but do not have the space or resources for a traditional weighbridge.



Guaranteed Accuracy

Our WIM systems provide a highly accurate means of weighing individual and multiple axles (single axle, tandem axle and tri-axle) as well as the vehicle gross weight.

The use cases for such a system include but are not limited to:

- Chain of Responsibility requirements in transportation.
- Government facilitated requirements.

The system being in-ground leaves no room for adjustment to the centre of gravity of the vehicle driving over it.

The WIM system is also designed to be fully configurable per the individual site requirements.

The WIM System is also fully integratable with WinWeigh Software to provide a user-friendly comprehensive data reporting system.



Construction

High traffic volumes is not an issue with a Single Axle Weighbridge install. Rugged and built to last, the construction of the Single Axle Weighbridge ensures long-life and reliability whilst maintaining high weighing precision.

Loadcells

At the heart of the WIM Solutions are the CPD-M Digital Loadcells. Strong and reliable, suitable for approved weighing systems up to 6000 divisions.

Specially designed for use in weighbridges, they are supplied complete with mechanical accessories and anti-rotation device.



Advantages



Static or dynamic weighing

There is no need for traffic to stop whilst driving over the WIM scale, therefore increasing traffic turnover and site efficiency.



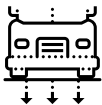
Less civil works required

As the scale has a small footprint, this significantly reduces the civil works required and therefore reduces the cost greatly.



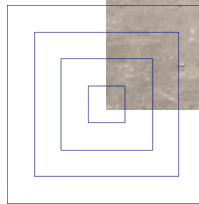
Small footprint

The small WIM platform helps to save site space compared to a full-length static weighbridge, making it ideal for small, space-restricted sites.



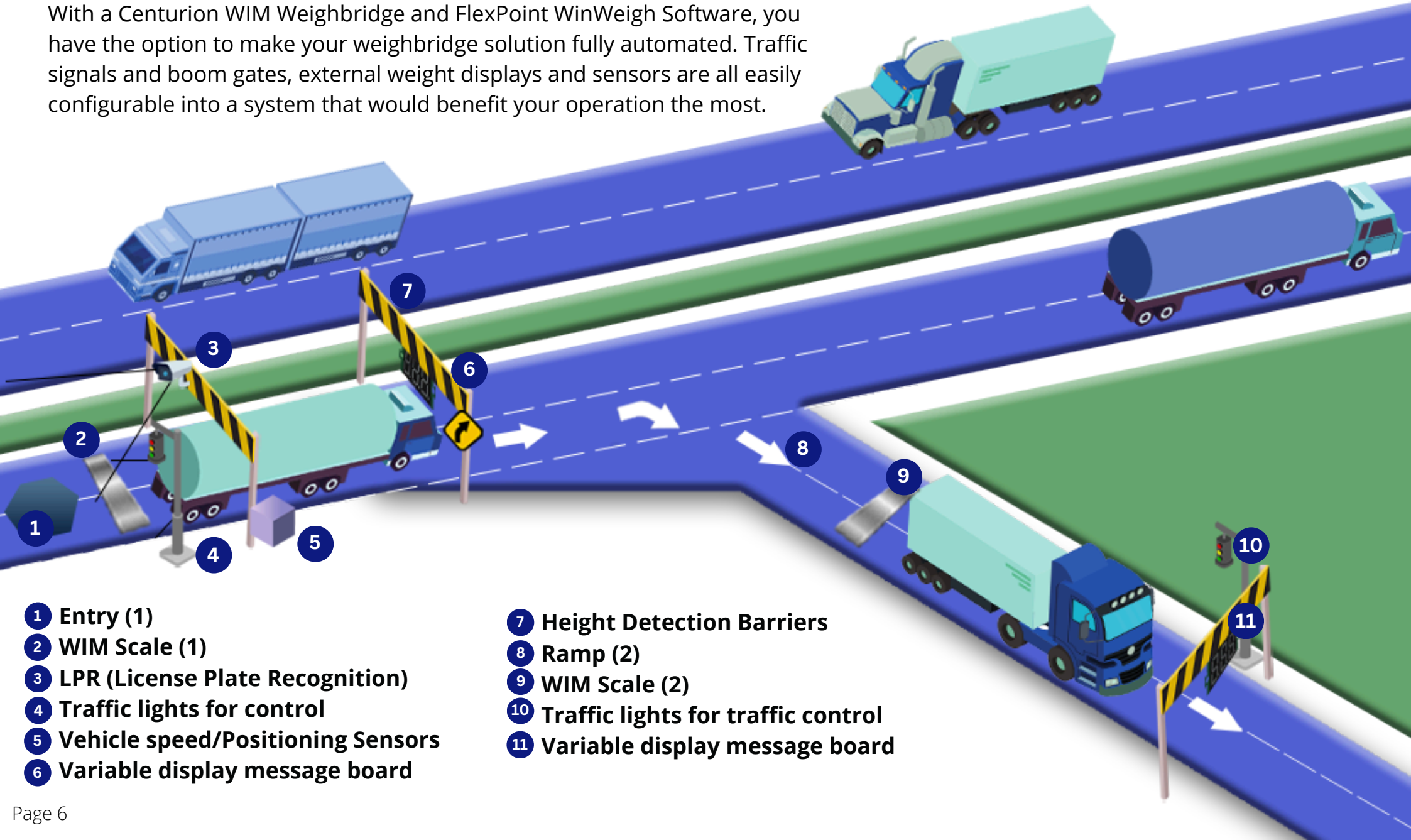
Weigh multiple axles

The WIM system has the ability to weigh every axle on a vehicle and provide individual axle weight as well as gross Weight.



Automation Options

With a Centurion WIM Weighbridge and FlexPoint WinWeigh Software, you have the option to make your weighbridge solution fully automated. Traffic signals and boom gates, external weight displays and sensors are all easily configurable into a system that would benefit your operation the most.



- 1 Entry (1)
- 2 WIM Scale (1)
- 3 LPR (License Plate Recognition)
- 4 Traffic lights for control
- 5 Vehicle speed/Positioning Sensors
- 6 Variable display message board

- 7 Height Detection Barriers
- 8 Ramp (2)
- 9 WIM Scale (2)
- 10 Traffic lights for traffic control
- 11 Variable display message board

Unmanned Operations and Hardware Control for Private Sites

Coupled with our FlexPoint WinWeigh Software and automation equipment, private sites can better plan and track their strategies for daily site operations and facility expansion with access to real-time data and insights.

Bilanciai DD2060 Colour Touchscreen Terminal

The Bilanciai DD2060 colour touchscreen terminal provides unrivalled user-flexibility and system integration for a wide range of weighbridge applications. The in-built computer removes the need for a local PC.

This powerful yet easy-to-use driver terminal has been specifically designed for unattended/automated weighbridge installations. The driver interface features a large industrial colour touchscreen, which guides drivers through the weighing process. The DD2060 can be used for both single and double weighing applications.

Bi-directional installations with DD2060 terminals at each end of a weighbridge offer the optimum weighing versatility and vehicle throughput.

Key features of our DD2060 terminal include:

- Fully configurable colour screen that can be easily read, even in bright sunlight
- Easy to use on-screen pictograms
- Range of smart access technologies:
 - Read/write RFID, magnetic, dallas tag etc.
 - Integral Ethernet intercom and thermal printer
 - 1D & 2D barcode and NFC readers
 - Optional voice activation feature
 - Vehicle management capabilities
 - Lockable cabinet for security

In addition to the use of a DD2060 unmanned driver terminal, WinWeigh features the ability to control various traffic management hardware such as:

- Boom Gates
- Traffic Lights
- Photo Sensors
- CCTV & LPR Cameras
- Graphical LED Displays
- Intercom Units



Analytics Portal

FlexPoint Analytics draws on information captured from your site and displays it in an easy to read format with dashboards and detailed reporting feature pie graphs, charts, data tables etc.

FlexPoint WinWeigh Software can improve the efficiency of sites with one weighbridge and sites with multiple weighbridges alike, with one or more central administration points.



Data Insights

Enhanced insights into your weighbridge operations that go above and beyond the standard reports.



Identify Issues

PinPoint abnormal data and perform audits for more detailed analysis.



Compare Data and Time Periods

Compare operational metrics across a variety of time periods, products, customers, vehicles and contracts.





**Weighing
Instrumentation
Systems
Fabrication
Calibration**

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