BISON® BY iWiM

THE WEIGH IN MOTION SYSTEM.

www.iwim.it

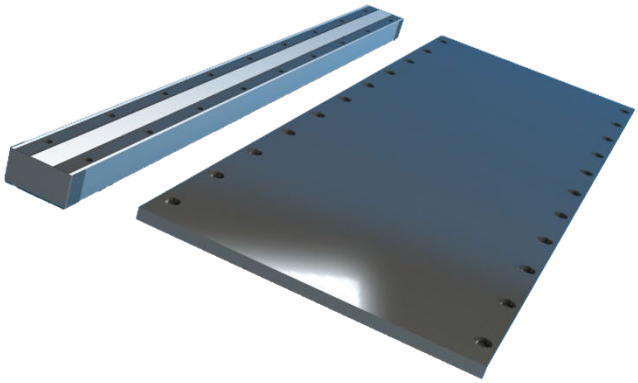
Model: BISON LS Control

The weigh-in-motion system (WIM) BISON model **LS CONTROL** is a solution developed **for sites that require constant monitoring of heavy vehicles access end exit** to optimize the logistic chains, supervise the data on the vehicles transporting goods and materials.

LS CONTROL is OIML R134 certified under 5 class of accuracy for speed up to 20 km/h and complies with COST 323 A(5) for weighing vehicles up to a speed of 25 km/h and permits high-accuracy data on the weight of transiting heavy vehicles in real-time.

Like all BISON products, the weighing technology uses fiber optic sensors, making it insensitive to temperature changes without the need for additional sensors.

The system configuration for one lane consists of two bending plates, two optical strips, and one data logger.



Technical data weighing system

Weighing technology	-	Optic fiber sensors
Material	-	Steel
Dimensions of plates	mm	1482/1732/1982 x 598 x 20/22/25
Dimension of strips	mm	1508/1758/2008 x 116 x 49
Axle weight range	kg	0 … 25.000
Operating temperature range	°C	-30 … +70
Accuracy class OIML	-	5
Detectable speed range according OIML	km/h	5 … 20
Durability	years	> 10
Sensor number per lane	-	4
Compatible foundation	-	Asphalt or reinforced concrete slab
Influence from temperature conditions	-	Absent
Inductive loops necessity	-	Absent
Cables under road surface	-	Only optic fiber, no electricity
Installation	-	Reinforced concrete slim prefab or anchored on the floor

Datalogger technical data

Dimensions	mm	482 x 177 x 170
Weight	kg	6
Connectors on frontal panel	-	SC/APC (optic fiber), RJ45 (network), IEC (supply)
Mounting	-	Brackets standard rack 19” (EIA-310)
Supply voltage	VAC	110-230
Power consumption (average)	W	15
Operating temperature range	°C	-10 … +70
Content	-	PC, fiber optic light source, spectrometer
Capacity HDD	GB	128 … 1024
Local storage capacity	days	> 30 with context pictures, > 365 only text data
Network interface	-	Ethernet 1 Gbps (IEEE 803.3ab)
Distance from sensors	km	< 10

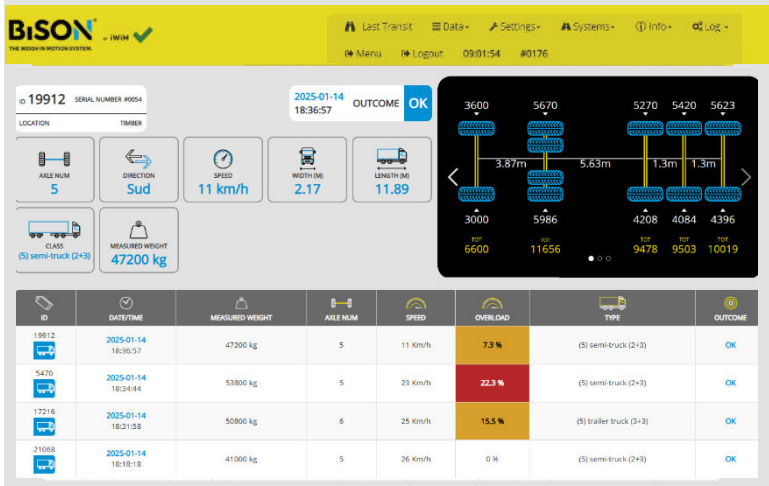
BISON by iWiM

iWiM

Software developed by iWiM

Data collected by the Software

Vehicle weight	Transit result
Transit speed	Traffic intensity
Vehicle counting and classification	Average vehicle flow/hour
Number of the axles	Daily, weekly, monthly and annual vehicle flow
Single axle load	Twin wheels
Distance between first/last axle	Average speed per hour
Axle lenght	Recurrent overloaded vehicles
Vehicle parametres (lenght, width)	Licence plate number
Alert of transit outside the plate	Load distribution on heavy vehicles
Alert overload	Direction
Monitoring 24/7	



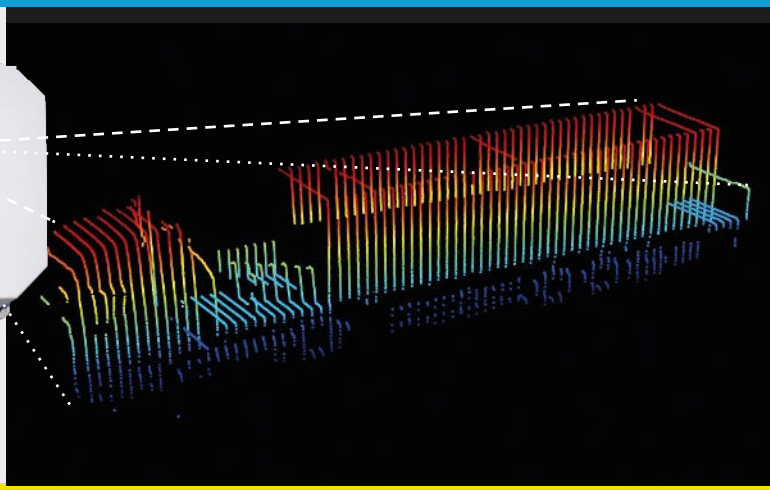
BISON LS Applications

The new BISON LS Control model has been specifically designed to **monitor 24/7 access to construction sites, logistics areas, ports, terminals** and for any case in which checking the weight of incoming/outgoing vehicles is essential.

For further site security, for example, it is possible to use personalized statistics with a **daily traffic report**, including non-accredited license plate alerts.

The installation of **a context camera or a LIDAR camera guarantees total entry/exit control of each vehicle.**

ANPR camera and LIDAR integration



iWiM

Tel. +39 0461 1636636
E-mail: info@iwim.it
www.iwim.it

Via Kufstein, 1
38121 Trento (Italy)
P.IVA IT02219520224