

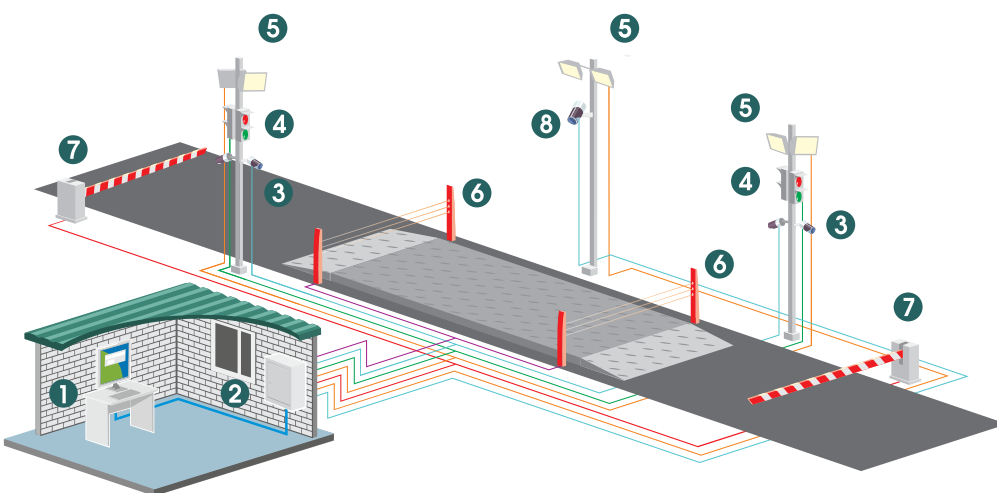
AUTOMARSHAL.WEIGHBRIDGE system for weighbridge automation

Automarshal.Weighbridge is a hardware-software complex designed for weighbridge automation. It allows to ensure transparent loading/unloading of transported cargo, reduce manual operations and minimise the human factor. It also helps to prevent theft and reduce time for the product dispatch.

KEY FUNCTIONS

- Photo/video recording of every weighing operation
- Collection and storage of vehicle information: photo, video, passage date/time, weight (container, net, gross), etc.
- Automatic detection of empty/loaded vehicle (using directories)
- Automatic measurement of net weight
- Checking vehicle position at weighing
- Performing weight measurements only for correctly positioned vehicles
- Automatic control of external devices (e.g. traffic lights, traffic barriers, and lighting)
- Automatic generation of reports and shipping documents
- Remote control of weighbridge operations

STANDARD CONFIGURATION OF A SYSTEM



- 1 – PC with Automarshal.Weighbridge software
- 2 – Cabinet
- 3 – ANPR cameras
- 4 – Traffic lights
- 5 – LED searchlights
- 6 – Vehicle position sensors
- 7 – Barriers
- 8 – Video camera for vehicle body recording

ADVANTAGES

- Two-level system for the software settings (i.e. separate for user and administrator) which makes it easy to adapt Automarshal.Weighbridge to the conditions at almost any facility.
- High accuracy of the vehicle number plate recognition is possible due to implementation of Automarshal recognition core
- Reliable data storage is ensured by MS SQL Server database management system
- Ability to operate the system both in automatic and manual modes (in case of equipment malfunction)

TECHNICAL SPECIFICATIONS

ANPR Core	Automarshal
Remote control of weighbridge operation	“Network Client” software module to view weighing database, search the data entries, generate reports, etc.
Mode of vehicle passage/movement on the weighbridge	Arbitrary
Number of cameras	From 1 to 5
Distance from camera to vehicle number plate	From 3 to 10 m
Power consumption	From 520 W to 1200 W depending on the implemented hardware
DBMS (data base management system)	MS SQL Server (Express, Standard)
Solution for integration with the weighbridge	RS-232/485, Ethernet, at the software level
Computer requirements	CPU (processor): Intel Core i3 or more RAM (random access memory): 4 GB or more OS (operating system): Microsoft Windows 7, 8, 10 Monitor: from 1024x768, an additional monitor is recommended for displaying video from cameras

OPTIONS

- Top panoramic camera for vehicle body capture
- Check of vehicle position on weighbridge during weighting
- Explosion-proof ground level equipment
- Recognition of container/trailer number plate
- Modification of Automarshal.Weighbridge cabinet to suit the climate conditions
- FOCL interface of Automarshal.Weighbridge cabinet
- Thermal imaging

