

Application Note

Vehicle Weight Enforcement

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HOW WE HELP

1. Identifying the correct vehicle

TagMaster RFID allows users to capture vehicle ID accurately even with dirty plates or in bad lighting conditions. TagMaster cameras allow an accurate and fast capturing of plate images in more controlled environments. With our network ready readers and cameras, users can fully automate the whole system all the way from data capture to reporting into a streamlined process. It also allows alerts to be sent when an unauthorized vehicle is on the weigh stations.

2. 24/7 operations

With a fully automated system in place, unmanned weigh bridge can operate 24/7. This leads to higher utilization of the weighbridge which can be a costly investment in itself. This also allows for flexible scheduling of truck traffic. The system can also be used to order a truck to return to loading bay for weight adjustments or to open a barrier to allow it to exit the facility. Weight adjustment information can be automatically sent to the loading bay together with relevant vehicle information.

3. Accurate operational information

TagMaster products enable accurate capturing of vehicle data. Management can review vehicle operational status, utilization rate and service records presented in a way they want. Alerts can be sent to users or to operate barriers as required.

4. RFID in non standard plates environment

TagMaster RFID allows for accurate identification of heavy vehicles in countries where plates are not well regulated in terms of material, size and type. This is especially useful for enforcement of overweight vehicles on public roads. The vehicles are equipped with TagMaster RFID tags. Each tag is tied to a specific truck. In a manned weigh station operation, the weigh master can identify the trucks and decide whether or not to call the truck in for further examination. In weigh-in-motion operation, the data capture and enforcement can be fully automated.

OVERVIEW

As management invests in newer vehicles, it is important that these vehicles operate within specified parameters to extend operational life and improve turnaround time. Idle vehicles are assets which are not performing its role in revenue generation.

Also, as more and more heavy vehicles ply our roads, public road safety has become an urgent issue. Furthermore, by only allowing specified vehicles on public roads, road damage by overloaded vehicles can be avoided as well.

This application note looks at specifics of using RFID or ANPR products to help with the following issues:

1. Properly identifying loaded vehicles
2. Automating weigh bridges for 24/7 unmanned operation
3. Providing management with up to date information of vehicle utilization
4. Identifying vehicles in non standard plates environment

Both TagMasters RFID and ANPR systems can help with all of the above and much more.

PRODUCTS USED

XT-series of readers and passive ID-tag/cards

LR-series of readers and ID-tags

ANPR camera and software