

LOADSCAN[®]
LOAD MANAGEMENT SOLUTIONS



ACCURATE BY THE TRUCK LOAD

A successful business has loyal customers that stick with them, and those customers stay loyal when they feel they are getting the best products, at the best price with great service. But how can customers in the bulk materials industry trust they are getting the correct volume of material delivered, when the current practices of weighing or counting buckets of bulk materials can be so inaccurate?

This is why industry leaders in the compost, landscaping supply and aggregate sectors have turned to Loadscan's Load Volume Scanners.

VOLUME ASSURED – GET WHAT YOU PAY FOR, NO MORE, NO LESS, NO HASSLES.

The business case for companies using Loadscan technology promises a quick payback, as the technology enables a company's internal processes to become much more efficient, accurate and streamlined.

Loadscan Ltd has a long relationship with the loading industry, starting from civil engineering roots in New Zealand. Loadscan is the global leader in accurate and economical Payload Management.

LOADSCAN[®]
LOAD VOLUME SCANNERS

HOW THE LOAD VOLUME SCANNER WORKS

Vehicles are scanned by driving slowly below the elevated Scan Head. The scanning process is fully automated. A touch-screen Operator Console provides for easy operator control and monitoring of the system and a high visibility LED Message Board displays load results, driver instructions and status messages.

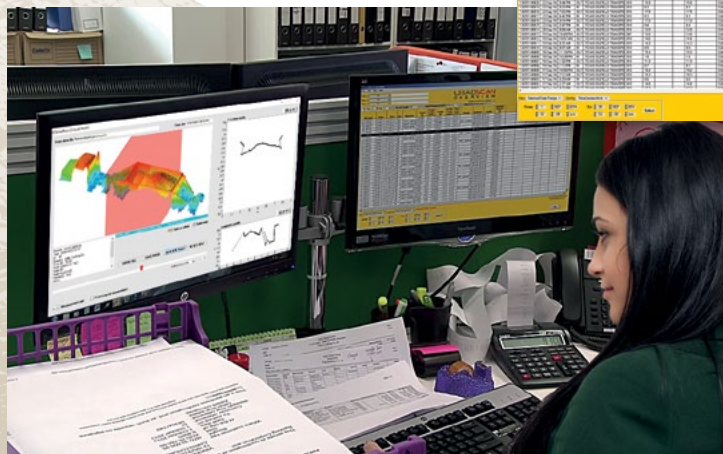


In standard operation, vehicles are scanned empty and recorded in the system database. On subsequent visits the loaded vehicle is scanned and the load volume computed by comparing load scans against database records. Trucks and trailers can be identified manually, or they can be fitted with RFID tags that automatically identify the vehicle(s) when scanned.

You can integrate with your weigh scale and/or accounting software.

Measuring truck loads is a start, but how you utilize the measurement data to benefit your business makes all the difference to both management and staff time efficiencies.

OVERVIEW									
Vehicle ID	Weight	Volume	Height	Width	Length	Area	Perimeter	Volume	Status
12345	10000	1000	2.0	2.5	10.0	25.0	100.0	1000	OK
67890	15000	1500	2.5	3.0	12.0	30.0	150.0	1500	OK
11111	8000	800	1.5	2.0	8.0	20.0	80.0	800	OK
22222	12000	1200	2.0	2.5	10.0	25.0	100.0	1200	OK
33333	9000	900	1.8	2.2	9.0	22.0	90.0	900	OK
44444	11000	1100	2.2	2.8	11.0	28.0	110.0	1100	OK
55555	7000	700	1.2	1.8	7.0	18.0	70.0	700	OK
66666	13000	1300	2.3	2.9	11.0	29.0	130.0	1300	OK
77777	6000	600	1.0	1.5	6.0	15.0	60.0	600	OK
88888	14000	1400	2.4	3.0	12.0	30.0	140.0	1400	OK
99999	5000	500	0.8	1.2	5.0	12.0	50.0	500	OK

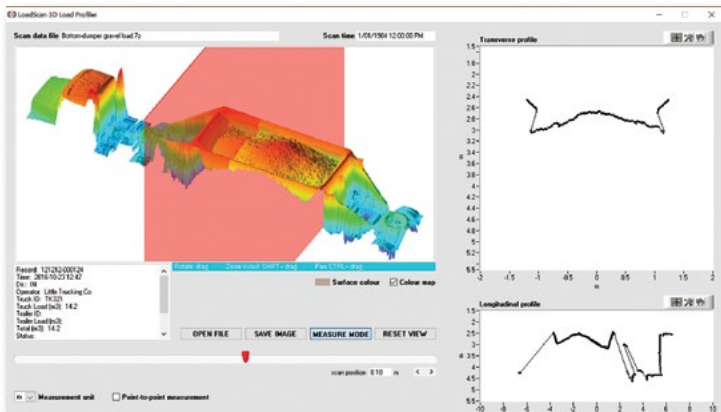


HOW LOADSCAN MAKES A DIFFERENCE

With Loadscan's OverView reporting software, you no longer have to wade through piles of dockets at the end of each month. Each and every load's report is logged into the Loadscan system and can be accessed and managed easily. The load management data can also be used to generate a vast range of reports at any time giving you a snapshot of your operations performance.

LOADSCAN OVERVIEW, LOAD MANAGEMENT SOFTWARE

Loadscan OverView is a software utility for retrieving measurement records from your Load Volume Scanner, viewing, editing, sorting and filtering records and generating summary period reports in Microsoft Excel. Loadscan can also work with you to create an interface for exporting processed data to your existing database, accounting or other systems. With a direct wired or wireless connection to your Load Volume Scanner, OverView provides real-time remote monitoring with up-to-the-minute data for pro-active load management. The standard version is provided free and optional modules and customizations are available to add extra functionality.



KEY FEATURES*

- ⦿ Import measurement records from USB-drive or direct wired or wireless network connection to LVS
- ⦿ Import measurement via internet/cellular modem connection (MyScanner service)
- ⦿ Combine data from multiple LVS systems
- ⦿ View selected date/time range, with summary statistics
- ⦿ Edit load details
- ⦿ Sort/filter records by parameters such as time, vehicle id or any custom load details such as product or customer

- ⦿ Generate period reports in Microsoft Excel®

**System requirements: Microsoft Windows® XP or higher and Microsoft Excel® 2003 or higher*

ADD-ON FUNCTIONALITY (optional)

- ⦿ Graphical 3D Load Profiling module and custom load distribution analysis
- ⦿ LVS Remote Control
- ⦿ Custom Reports for advanced analysis
- ⦿ Custom data export interfaces
- ⦿ SQL Database integration with customer software packages, eg. accounting, mine management

PRODUCTS & SERVICES

Loadscan offers a range of cost-effective Load Volume Scanner (LVS) configurations and options to suit most applications. Whether it's highly portable system to move from job to job, a permanent installation or a fully customized application — Loadscan has the solution for you.

FIXED MOUNT LOADSCAN FIXED LVS-3BMF

- ⦿ Core system components
- ⦿ Operator console set up in site office, or self-contained kiosk option available
- ⦿ RFID Tag Reader for automatic vehicle identification
- ⦿ LVS Measurement Software

Standard Applications

- Quarries • Sand pits • Mulch and Bark yards • Long term jobs
- Suitable for all permanent operations



* Full technical specifications available upon request

RELOCATABLE LOADSCAN PORTABLE LVS-3BMP

- ⦿ Core system components
- ⦿ Portable (fork-slots and lifting points provided)
- ⦿ Built-in kiosk options for operator console, printer, generator and LED message board housing
- ⦿ RFID Tag Reader for automatic vehicle identification
- ⦿ Runs off generator*, mains (line) power or 24VDC power source
- ⦿ LVS Measurement Software

Standard Applications

- Mid to long term jobs • Construction sites • Hire
- Remote quarries, sand pits with minimal site office infrastructure
- Medium size mining operations





PORTABLE LOADSCAN MOBILE LVS-3TMM

- ⊙ Core system components
- ⊙ Complete, ready to use self-contained system
- ⊙ Robust, stable and built tough
- ⊙ RFID Tag Reader for automatic vehicle identification
- ⊙ Runs off generator*, mains (line) power or 24VDC power source
- ⊙ LVS Measurement Software

Standard Applications

- Short term jobs
- Construction sites
- Remote crushing jobs and irregular use quarries
- Debris clean up • Product density surveys • Hire

* Approved generators only.

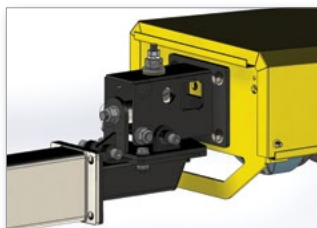


CUSTOM LOADSCAN HEAD UNIT LVS-3CMX

- ⊙ Core system components only for custom mounting and installation
- ⊙ Main (line) power or 24VDC power options
- ⊙ Universal mounting bracket supplied
- ⊙ LVS Measurement Software

Standard Applications

- Underground mine portal or tunnel mounting
- Mounting off the side of buildings or in sheds
- Large custom mountings for oversize dumpers





LOADTRAK™

IN-CAB CONSOLES FOR ACCURATE PAYLOAD DATA COLLECTION

Rugged In-Vehicle Touchscreen Console — allows truck drivers to enter load details such as load source, load type, destination etc. at the time of loading. When truck comes within WiFi range of the LVS system the load details are automatically uploaded and recorded along with the load measurements.



SOLAR POWER OPTION

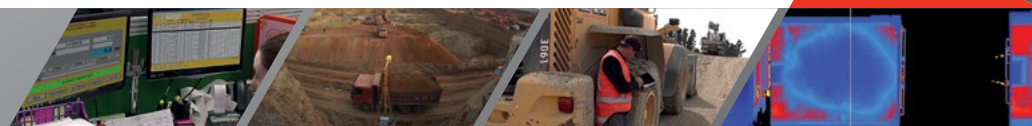
24 hour power supply for 1 LVS unit.
Fixed and portable options available.
Generator use also.

Disclaimer: solar generating conditions required.



OUTRIGGER EXTENSION

The Outrigger Extension attaches directly to the main LVS mounting structure allowing for scanning of larger articulated dumpers and underground mining trucks between 30 and 60 tonne.



LOADSCAN SERVICES



(Online access — subscription based)

MyScanner™ is a secure web portal allowing remote access to your scanner, real-time presentation of scan data and access to support from anywhere in the world.

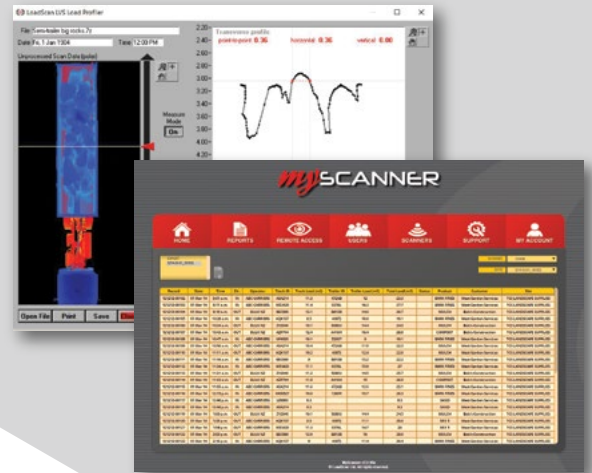
- ⦿ Live load data direct to you, wherever you are.
- ⦿ Remote control of LVS systems out in the field.
- ⦿ Export scan data in supported formats and view and graph historical data to get a more in-depth overview than ever before.
- ⦿ 24/7 support including access to user documentation and a repository of frequently asked support questions & answers.
- ⦿ Full administration control including user access and software updates.
- ⦿ Access to the MyScanner API, allowing load data integration from your scanner directly to accounting and business management software packages.

Your data security is important to us, which is why LoadScan chose Amazon Web Services (AWS) infrastructure for its world class status, security, backup and redundancy services ensuring your data and user accounts remain secure and protected.



LoadSync offers an offline solution as an alternative to the MyScanner customer portal, providing customers that don't want their load data stored in the online environment due to security concerns, or customers in a remote location without internet connection, some of the key load data integration features that MyScanner API offers.

- Installed on board the LVS operator console.
- Formats Load data from the LVS into a SQL database.
- SQL queries in combination with connection strings (e.g. ODBC) to propagate/request data



INDEPENDENT LOAD AUDIT/VOLUME ASSURED CERTIFICATION

Independent assessment of current loading practices to identify and understand where efficiencies can be gained. Includes presentation of where cost efficiency savings have been made and payback on audit investment.

CUSTOMISED SOFTWARE DEVELOPMENT & LOAD MANAGEMENT SOLUTIONS

Customized software development and load management solutions to suit individual operations. Integration into weigh scale systems and accounting packages

ANNUAL CERTIFICATION

Annual certification of LVS to grant legal for trade status, allowing customers to use the LVS unit to guarantee trade volumes. Currently only available in NZ and Australia

ANNUAL SERVICE CONTRACT (Subscription based)

Annual subscription to cover phone/email support and software upgrades

SYSTEM COMPONENTS & OPTIONS

Standard Components

- ⦿ Scan head, lasers, RFID tag reader, mounting structure, mounting block, operator console, LED message board, ticket printer.
- ⦿ 110–240VAC power box (Mains power is converted in the power supply box to 24V DC to power the complete LVS system).

Power Options

Depending on the configuration of your scanner (mobile or fixed) there are a number of power options available. These include hard-wiring (any voltage can be catered for) or mobile power sources. The system itself runs on 24VDC so can easily operate off a battery power bank which can be charged by direct AC input or by generator. Solar top-up chargers are also available. When using a hard-wired scanner in locations with irregular power supply, Loadscan recommends and supplies a back-up power source to ensure you can keep your scanner working regardless of power cuts.

Additional Options

- ⦿ MyScanner™ Remote Access Service — Upload measurement records to the MyScanner web service for live data feedback to the office and real time load reports.
- ⦿ Custom mounting structures.
- ⦿ RFID tags for Automatic vehicle identification.
- ⦿ Custom cable lengths.
- ⦿ Graphical load profiling tool for mine truck load distribution analysis.
- ⦿ Additional LED Message Board — for scanning both in and out directions.
- ⦿ WiFi antenna for onsite access to the LVS from office, tablet or smartphone for remote control and data access.
- ⦿ Rugged LoadTrak™ vehicle-mount touch screen console for collecting additional load information that is automatically sent to the LVS at time of scanning, load information is attached to the measurement record.
- ⦿ Annual service contract, accuracy testing /certification, system maintenance.





LOADSCAN OFFER VOLUME ASSURED CERTIFICATION

INDEPENDENT LOAD AUDIT

Let Loadscan assess, train and implement best practise loading and measuring to ensure correct load volumes and inventory management.

Two week process, start to finish, on-site

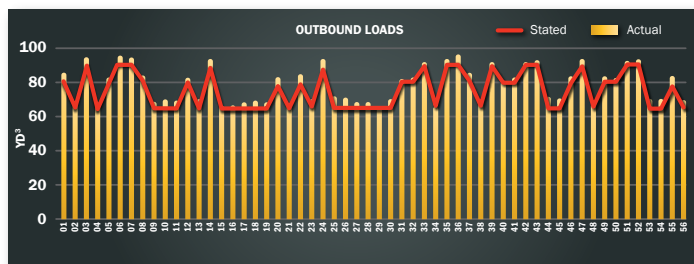
Get optimum capacity and efficiency from each truck load

Aid planning and project management

Guarantee accuracy on inbound and outbound loads

Loadscan manages the whole process, including load measuring and training for your team to ensure accuracy.

Your Load Audit includes a visual presentation of where cost and efficiency savings have been made and time taken to payback the audit investment



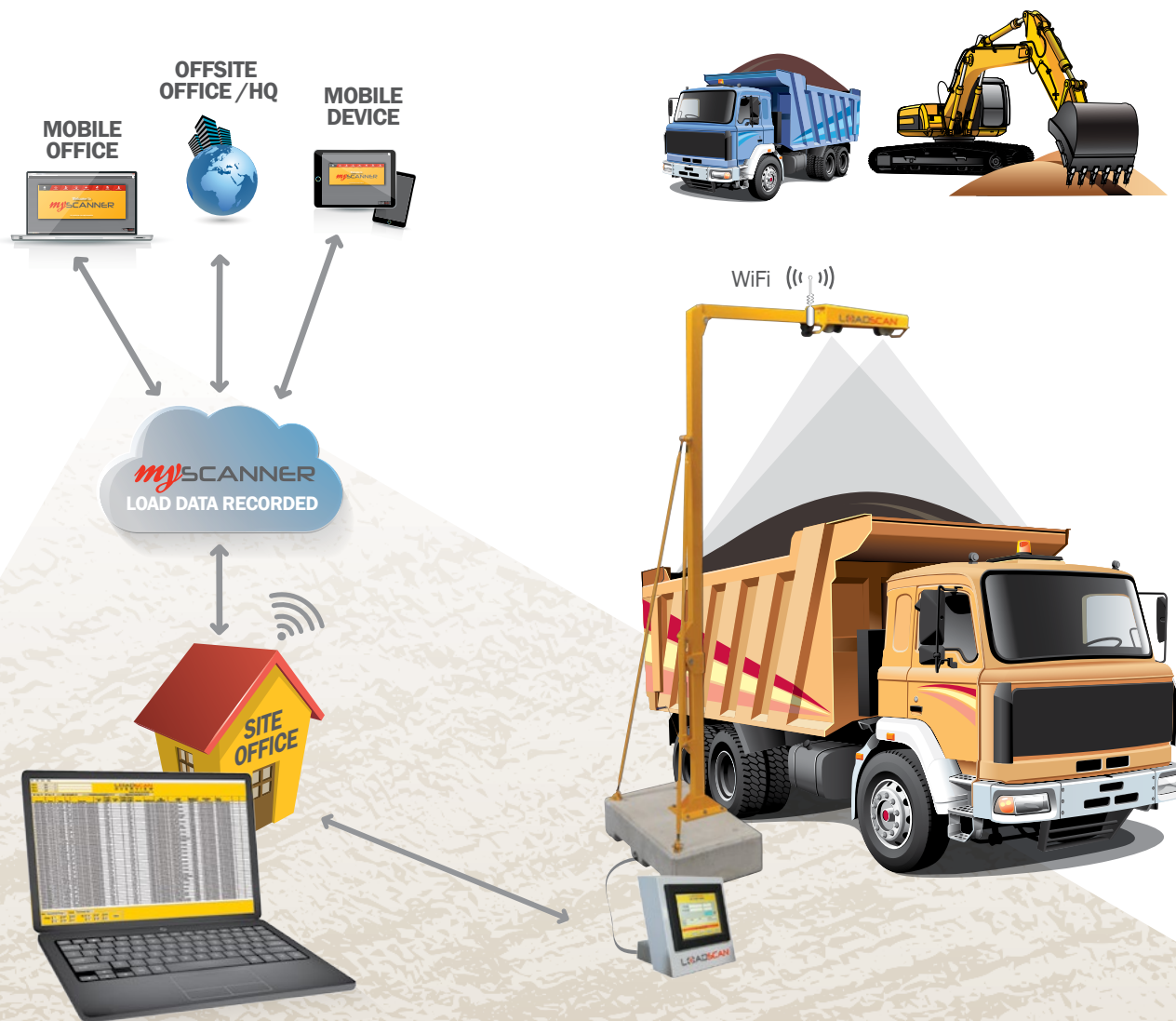
DISCLAIMER: Does not constitute 'legal for trade' status.



WORLD FIRST TRADE CERTIFICATION

LoadScan Ltd (NZ) is the only company worldwide to have achieved trade certification approval for truck volume measurements with a Load Volume Scanning system. The LVS system is proven to $\pm 1\%$ accuracy and has cemented Loadscan as the preferred supplier of accuracy driven load management solutions.

Currently trade certification has been granted in NZ and Australia, however, LoadScan's goal is to achieve worldwide 'legal for trade' certification. LoadScan LVS units will be supplied as 'monitor only' outside of New Zealand and Australia but will still perform to the same tested accuracies stated above.





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*my*SCANNER[™]

OVERVIEW[™]

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