

# romdas

ROad Measurement Data Acquisition System

## Data Collection Ltd.

### SERVICES OVERVIEW



Data Collection Ltd.  
New Zealand

*providers of innovative technology and services for measuring and managing roads*

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# **SURVEY SERVICES OVERVIEW**

DCL services can be applied to a wide spectrum of industries including roads, airports, ports and railways. By surveying these types of infrastructure we can provide data & information on assets, surface and sub-surface conditions.

We collect and report accurate and reliable pavement information. This information is critical for efficient budget allocation and maintaining high quality infrastructure. We design and manufacture equipment that collects a wide variety of data and can therefore customize our services to suit the specific needs of our customers.

Our services can be understood as falling into 2 categories; Traffic Speed Condition Surveys and Structural Testing.



## **Traffic Speed Condition Survey**

Our fleet of ROMDAS survey vehicles collect accurate data about the pavement and asset condition. The commonly requests services in this category include;

- **Roughness Compliance Testing,**
- **High Speed Data Surveys** (an all inclusive service which collects a variety of commonly requested high speed data sets like; Roughness, Rutting, Macro-Texture, Geometry, Video, GIS Data),
- **Video Logging including Pavement and Asset Condition Rating.**



## **Structural Testing**

Our JILS Falling Weight Deflectometer (FWD) simulates the effect of a heavy vehicle driving along the road.

This non-destructive test involves dropping a known load on the pavement surface and recording the deflection bowl response. Information is then used in the calculation of pavement strength and expected life.



# RECOMMENDED CONFIGURATIONS

## FOR TRAFFIC SPEED CONDITION SURVEYS

	<i>Specific Output/Feature</i>	High Speed Data Surveys	Roughness & Video Logging Survey	Roughness Compliance Testing	Video Logging
<b>Longitudinal Profile and Roughness</b>	Raw longitudinal road profile	✓	✓	✓	
	Wheelpath IRI quarter car	✓	✓	✓	
	Lane IRI quarter car	✓	✓	✓	
	NASSRA count	✓	✓	✓	
<b>Transverse Profile and Rutting</b>	Raw transverse profile	✓			
	Rut depth (straight edge)	✓			
	Shoving	✓			
	Rut width	✓			
	Rut cross sectional areas	✓			
<b>Macro-Texture</b>	Mean profile depth (MPD)	✓			
	Estimated texture depth (ETD)	✓			
	Road porosity index (RPI)	✓			
<b>Geometry</b>	Crossfall (%)	✓			
	Grade (%)	✓			
	Radius of curvature (m)	✓			
<b>GIS Reference Data</b>	GIS Centreline	✓			
	Accurately positioned surface defects	✓			
	Accurately positioned assets	✓			
<b>Right of Way Imagery</b>	Video Player and imagery	✓	✓		✓
	RAMM Condition Rating	✓	✓		✓
	Asset Inventory Rating	✓	✓		✓
<b>Laser Based Pavement Imaging</b>	Automatic Defect Detection	✓			
	RAMM Condition Rating	✓			



## Company

Data Collection Limited is a New Zealand owned and registered company who perform highly technical highway surveys and manufacture ROMDAS equipment.

We have been manufacturing and providing advanced road survey equipment to clients for the past 20 years. From our origins in the late 1980s, we have a proven track record in the collection of highway and asset information, both in New Zealand and internationally. Over that period, we have provided our services to over 60 different countries spread throughout the world from Afghanistan to Zambia.



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