Digital Ultrasonic Rail Flaw Detector Rail Flaw Detector





9 Individual Transmit/Receive Channels A & B Scan Display and Recording **Self-Testing Function on Probes GPS Location System DAC on all Probes**



RailRover

New Generation Ultrasonic Rail Flaw Detector

The RailRover Digital Ultrasonic Rail Flaw Detector is the latest digital hand pushed ultrasonic portable rail testing machine. It has 9 channels on the machine and an independent channel for handheld confirmation testing of welds and the rail foot.

Other features include a GPS location system, internal memory for saving data and the ability to transfer data to a PC or laptop via micro SD card connection to allow simple, easy defect management.

Superior Features

The RailRover has 9 individual ultrasonic transmit/receive channels for rail testing and an independent hand held channel for defect confirmation, sizing and manual inspection of the weld or rail foot.



Magnetic Foot Option



Encoder



Main Specification



Channels: 9+1 **PRF:** 400Hz

Detection Range: 0-300mm

Dynamic Range: ≥16dB (normal); 2-6dB (suppression)

Horizontal Linearity Error: $\leq 0.5\%$ Vertical Linearity Error: $\leq 3\%$ Attenuation Range: $10dB\pm1dB$ Gain Error: $\leq 1dB$ for each 12dB

Working Voltage/Power: DC12V@8W **Operating Temperature:** -40 °C ~+50 °C

Tank Capability: 20 Litres

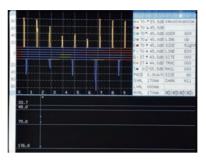
Weight (dry): 28kg

Dimensions (L×W×H): 750×350×800mm

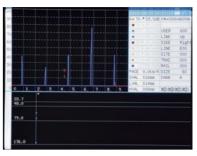
Display Modes

Three modes (single A scan, multiple A scan and A+B scan) are available in RailRover. Press one button to switch freely among A scan and multiple A scan.

All modes have storage and recording function. The images can be replayed directly in the system and saved in micro SD card for storing and processing in a PC.



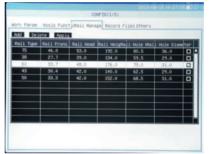
A+B Scan with 9 Channels



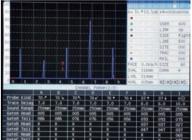
A+B Scan with Single Channel

Memory and Review

RailRover can save up to 4GB data files. Each file includes data, time, operator information, defect location, rail size and distance. Alternatively it can store infinite continuous recording using A or B scan format. Using a micro SD card, it can save data for up to six months of operation. The recorded information can be reviewed directly on site using the RailRover or transferred to a PC using the micro SD card. Software is supplied with the RailRover for the user to manage this data using a PC.



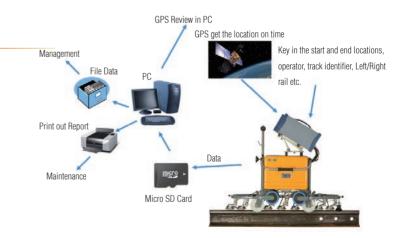
Rail Type Setup



Channel Parameter Adjustment

GPS Location System

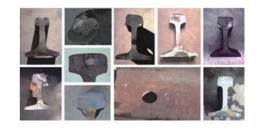
RailRover can record the testing time, location, working time, speed and walking distance. All of this information can be recorded and downloaded to a PC for management. The information can be printed as a report for direct maintenance.



On-site Application







Sample Defects Detected by RailRover

Testing Index Alternator Fror GB 10dB±1dB	Function	Unit	Specification Specification
Vertical Linearity Error % ≤3 Dynamic Range dB ≥16dB (normal); 2-6dB (suppression) Horzontal Linearity Error % ≤0.5 Pulser Irransmission Negative spike PRF channel 400 Damping Ω 500 Receiver Automation dB 0~80. Step: 0.5 Bandwidth MHz 1.6~3.6 AVD Sampling Frequency MHz 50 Reject % 25 Messurement Messurement Detection Bange mm 0 - 300 Auxillary Function GPS, missing inspection alarm, over speed alarm Display Messurement Vaule Sound path, horizontal, depth Scan Scan Scan Scan Scan Mode Av8 Available Irrigger Mode Encoder Fencoder Gale Gale Start: Full, Gate Width: Full, Gate Height: positive: 50%, negative: 30% Channel Gale Gale Start: Full, Gate Width: Full, Gate Height: positive: 50%, negative: 30% Channel Number pc 20 20			
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Priser Negative spike PRF Hz/ channel 400 Damping Ω 500 Receiver Attenuation dB 0 ~ 80, Step: 0.5 Authority MHz 5.0 8 AVD Sampling Frequency MHz 5.0 8 Reject % 25 8 Measurement Detection Range mm 0 ~ 300 Auxillary Function GPS, missing inspection alarm, over speed alarm Display Measurement Vaule Sound path, horizontal, depth Scan Scan Mode I.AB Imaging Wizard Available Trigger Mode Encoder Gate Gate Start: Full, Gate Width: Full, Gate Height: positive: 50%, negative: 30% Gate Gate Start: Full, Gate Width: Full, Gate Height: positive: 50%, negative: 30% Ghannel Probe Port Type BNC Probe Port Type BNC Probe Port Type Port Type BNC Probe Port Type pc 1 Probe Port Type pc 1	Dynamic Range	dB	≥16dB (normal); 2~6dB (suppression)
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Damping	Transmission		Negative spike
Damping	PRF	,	400
Receiver	Damning		500
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Weight kg Approx. 28 (Not include: couplant)	, ,		
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Dimension mm $750\times350\times800 \text{ (W}\times\text{H}\times\text{L)}$		kg	
	Dimension	mm	750×350×800 (W×H×L)



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