

ScanMaster

Train Rail Ultrasonic Inspection Systems

SFB-50 SERIES RAIL INSPECTOR



State-of-the-art ultrasonic inspection systems for detection, evaluation and documentation of flaws in train rail

SYSTEMS HIGHLIGHTS

- *Affordable, high performance*
- *Towed or car mounted integrated, multi-channel computerized solutions*
- *45 km/hr (27miles/hr) test speeds at full multi-channel performance with a return-to-defect to within 20 cm (8 inches)*
- *32 programmable gates per channel, provides real-time B-scan images of rail longitudinal cross-sections*
- *Easy –to-use, single-screen control from a single operator console*
- *Real-time defect detection and evaluation*
- *Off-line analysis and processing of stored and archived data*
- *Full test result documentation and archival for periodic monitoring of defect growth rates*

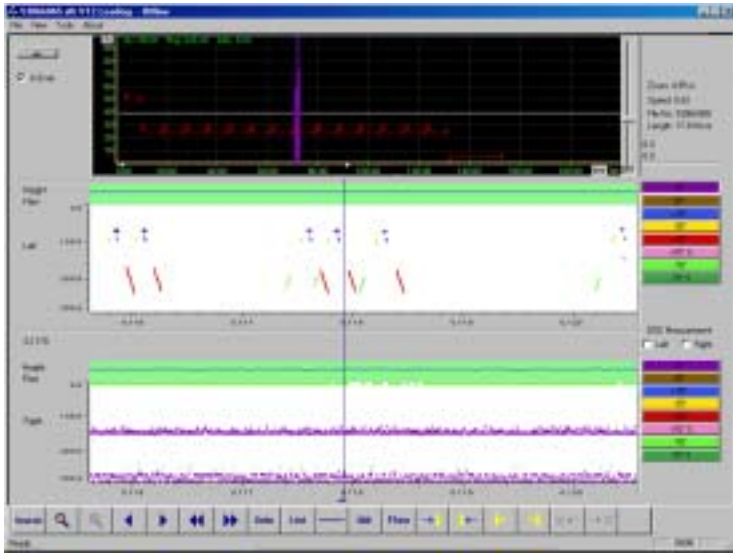


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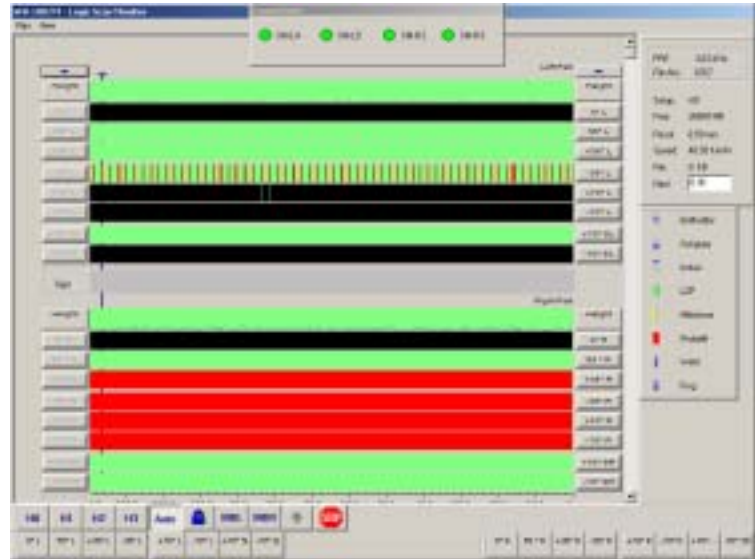
PRODUCT DESCRIPTION

<i>Introducing the SFB-50 Series</i>	SFB-50 is a modular; computerized ultrasonic data acquisition and evaluation system, developed for high-volume digital data acquisition, imaging and evaluation of in-service train rail flaws.
<i>Ultrasonic Instrumentation and software</i>	SFB-50 combines the multi-gate hardware capability of the ScanMaster upi-100 ultrasonic instrument with the application-specific ScanMaster Software for data acquisition, imaging and evaluation.
<i>SFB-50 architecture</i>	Using standard computerized client-server designs; SFB-50 can be setup to simultaneously handle up to four upi-100 ultrasonic instruments.
<i>Data acquisition technique</i>	32 contiguous hardware gates per upi-100 channel provide high-speed acquisition amplitude and time of flight data over the volume of the inspected rail.
<i>On-line B-scan imaging</i>	ScanMaster's software-generated longitudinal B-scan provides a real-time image of indications for each ultrasonic channel.
<i>Operator control</i>	Includes service car installed control and ultrasonic signal monitors, keyboard and mouse.
<i>Image storage & evaluation of indications</i>	On-line archiving of B-scan data for each active channel. Data evaluation can be on or off-line, based on pattern recognition of single or composite longitudinal B-scan images of indications. Fully documented inspection results with the capability for advanced flaw evaluation based on digital pattern recognition of longitudinal B-scan cross-sections.
<i>Number of inspection channels</i>	Up to 16 ultrasonic channels per rail. Simultaneous firing of all channels.
<i>Track Inspection resolution</i>	3.0mm per channel at 45km/hr (27miles/hr).
<i>Position tracker</i>	Encoder-based positioning. Automatic or manual position resets at periodically placed position markers. Tracking accurate to 200mm.
<i>Remote data processing</i>	Optional LAN based remote data processing and analysis station linked to operating console.
<i>Inspection documentation</i>	Standard documentation tools include: • Printer • On-screen operator notes • Screen captures and storage of A-scans in Set-up mode • PCX formatted image captures of all screen displays for storage and hardcopy.

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Post processing evaluation



On-line scanning

* Specifications are subject to change without notice.

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