

ELCID EVOLUTION



ELCID has achieved world-wide acceptance as the most consistent and reliable method of detecting stator core inter-laminar insulation breakdown in large electrical machines, such as turbo and hydro generators and large motors, without any risk to the machine or user.

ELCID offers the most cost-effective way to test the condition of a stator core in less time than any other technique.

The benefits of the product have ensured world-wide acceptance of the technique, providing more consistent and reliable information on the condition of a stator core in less time and lower cost than any other marketed system.



OPERATION SPECIFICATIONS

Power Supply

- 85-264 VAC, 50/60Hz, 15W

Battery Operation

- 4 hours from full charge, 12-14 hours recharge

Chattock Inputs

- 2 off, 100 μ V/A nominal @ 50Hz
Calibration range 1-999%
Ranges 0.4A/4.0A/40A fsd
200% overrange @ 100% calibration

Reference Input

- 2mV to 2V auto-range, agc settle <3 sec
2mV/A Sensor nominal
Frequency range 48-62 Hz

Phase Resolution

- $\pm 0.01^\circ$

Calibration

- 50/60Hz 1A calibrator, $\pm 0.3\%$

Signal Accuracy

- $\pm 0.5\%$ signal $\pm 0.2\%$ range (20°C)

X-Axis measurement

- Magnetic Trolley or RIV-702
Calibration from 0.01-10 mm/pulse

Measurement speed

- One 2mm record/cycle
Max speed: 100mm/sec @ 50Hz;
120mm/sec @ 60Hz

Display

- 145mm color LCD, backlit

Communication and Data storage

- USB to PC; Data is stored in open XML file format

Software

- ELAN V4 software supports the testing of all or part of a core, with retesting where required. Full screen display shows test progress and results. Analysis mode provides trace inspection in *Zoom* and *Comparison* modes, plus an *Overview* capability.

Computer

- Laptop PC, Windows XP or Vista (Microsoft®)

Switched Excitation System

- 0-250V input, 2-3/4-6 turns @ 32A/20A per turn max;
sense turn output, 1x10m & 1x20m cables

Environmental

- Operating: 0 to +50°C; Storage: -20°C to +60°C
Relative Humidity: 0-95%, non-condensing

Compliance

- EMC : EN61326-1 Class A
Safety: EN61010-1
Transport: EN60721 & EN60068 (part)
CE marked

Instrument Size and Weight

- 438 x 226 x 411mm (WxHxD), 7 kg
(17.2" x 8.9" x 16.2", 15.4 lb)

Transit Case Sizes and System Weight

- 560 x 580 x 350mm (x2) 49 kg (23 + 26 kg)
(22.0" x 22.8" x 13.8", 108 lb (51 + 57 lb))
(excluding PC)

Packed Size and Weight

- 700 x 700 x 500mm (x2), 65 kg total
27.6" X 27.6" X 19.7" (x2), 143 lb

SYSTEM CONTENTS

- EL CID Evolution Instrument
- Chattock Sensors (10, 20, 25 & 30cm)
- Reference Sensor
- Extension Leads
- Magnetic Manual Trolley
- Calibration Unit
- Switched Excitation System and Windings (2)
- Current and Voltage Meters
- Adjustment Tools and Measuring Tape
- Laptop Computer
- ELAN CD with Software Licence
- Handbook
- Wheeled Transit Cases (2)

RELATED PRODUCTS AVAILABLE

- RIV-702 Robotic Inspection Vehicle (shown below with optional Camera System)
- RIV-752 Camera (shown below)
- Rotor-in-place and Hydro Excitation Systems
- Low profile and non-standard Chattock Sensors

RIV-752 Camera

The RIV-753 camera fits the Robotic Inspection Vehicle. The camera provides visual inspection of stator and rotor and RIV alignment during *rotor-in-place* testing. The assembly features a built-in light and a 45° mirror, which can be remotely rotated through 360° to allow scanning of the stator and rotor, as well as viewing along the gap.

RIV-702

Robotic Inspection Vehicle

The RIV-702 Robotic Inspection Vehicle reduces operator fatigue, produces more consistent results and can be used for *rotor-in-place* testing.

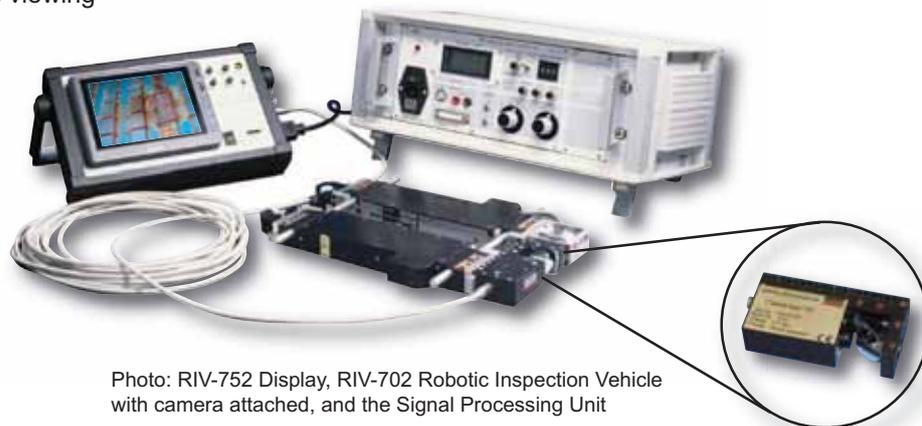


Photo: RIV-752 Display, RIV-702 Robotic Inspection Vehicle with camera attached, and the Signal Processing Unit

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