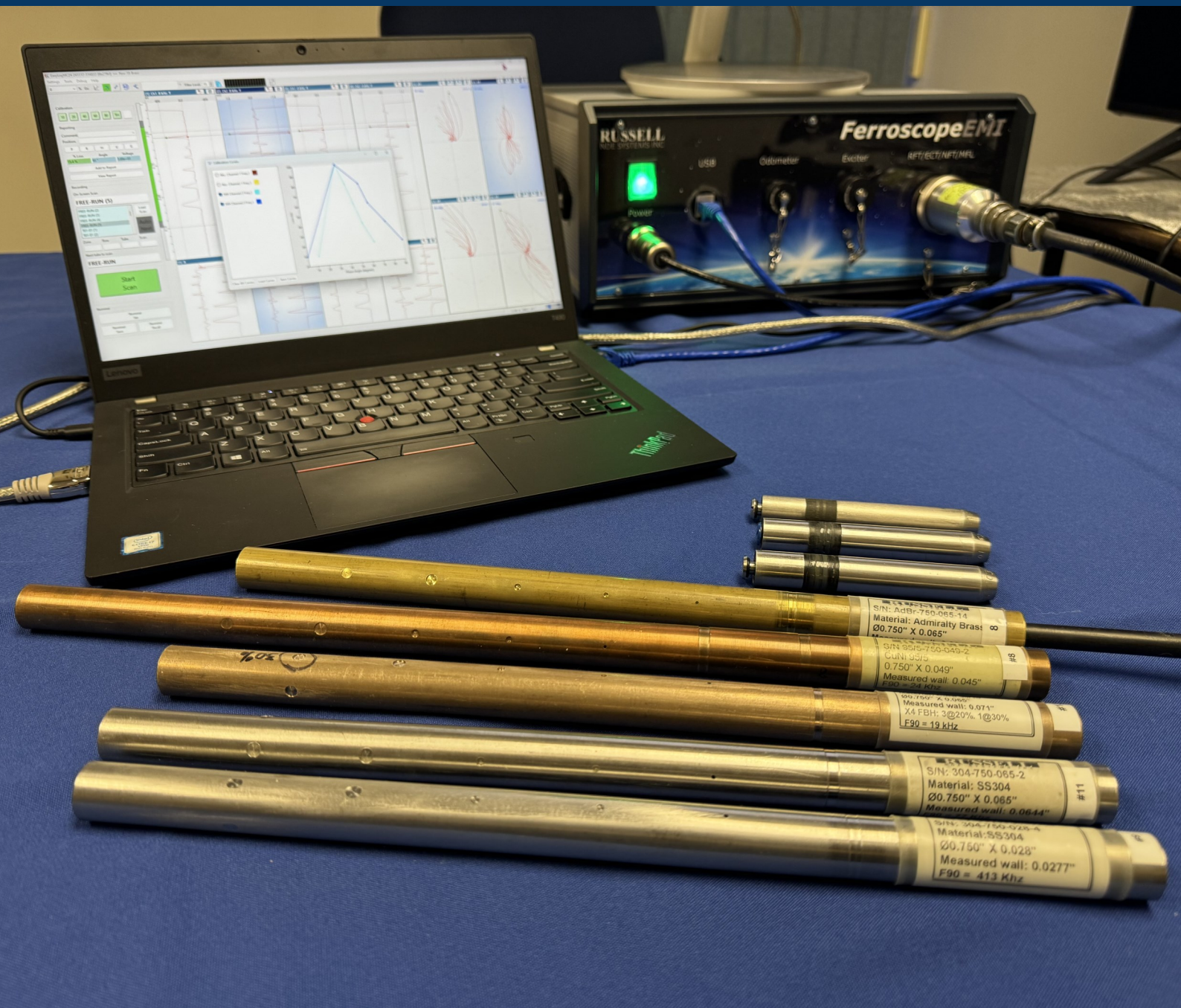


# RUSSELL

N D E S Y S T E M S I N C

## FERROSCOPE EMI

ECT, RFT, NFT Array Instrument and Software



## Applications:

- ◆ Heat Exchanger Tubing Inspections
- ◆ Ferrous and non-ferrous
- ◆ Boiler Tubing Inspections (ID and OD probes)
- ◆ External inspection of pipes and tubes
- ◆ CUI detection through insulation (5" max)
- ◆ Boiler water wall tubing inspection using VertiScan or E-PIT probes
- ◆ Crack detection using array probes
- ◆ Plate and weld inspection on tanks and vessels
- ◆ Carburization detection
- ◆ S/S Superheater tubing inspection for flakes
- ◆ Pipeline scanning for internal wall-loss

**FERROSCOPE: THE MOST VERSATILE EMCT/RFT/NFT  
INSTRUMENT ON THE MARKET: *BAR NONE!***

Russell NDE Systems Inc. 4909 75 Avenue, NW, Edmonton, AB, Canada T6B 2S3

Ph: +1 (780) 468-6800, +1 (800) 661-0127, [www.russelltech.com](http://www.russelltech.com)

# Ferroscope EMI Specifications

Frequencies:	ECT: 1KHz to 1MHz, RFT: 1Hz to 40KHz
Coil channels:	16 May be displayed as Absolute, Differential, MIX, Phase, Log-Amplitude, Magnitude
Sample Rate:	Adjustable. Standard is 1,000 samples/second
Signal:	Simultaneous injection, synchronous detect
Frequencies:	4 ECT and 2 RFT/NFT frequencies
Power:	12VDC through universal power supply, 110VAC to 240VAC, 50/60 Hz
Temperature :	-20C to +50C
Certifications:	CSA (Canada), CE (Europe), FCC (USA)
Coil drive:	ECT 40V P-P, RFT 80V P-P (bridge drive). Coils are protected from over-drive
Computer :	Ethernet control over internet and/or USB converter
Displays:	4 Strip Charts plus 4 Voltage Planes including colour map option X-Y Lissajous or Voltage Plane Polar Plots
Zoom:	Zoom available on all strip charts and voltage planes
Calibration:	ASME or ASNT calibration tubes used to create calibration curves
Distance:	Built-in odometer (encoder) interface or interpolated distance
Probes:	Compatible with all probe types from Russell NDE: DA, ADA, E-PIT, I-PIT, VertiScan, Bracelet, Surface Array, Dual exciter, Dual detector, TT
Report:	Built-in report, exportable as .csv file
Mapping:	Import CSV report into TSM, TubePro and other mapping software
Speed:	Ultra-fast probe pull speed due to high sample rate, even on steel tubes
Trending:	View multiple data sets on the screen simultaneously

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