

# Resistivity Micro Imager (RMI)

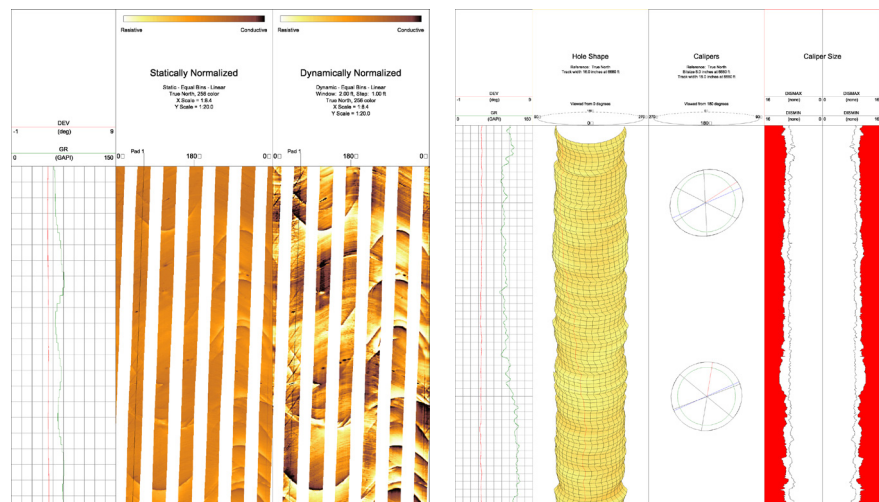
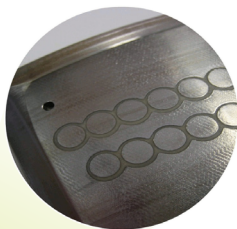
The Resistivity Micro Imager (RMI) produces high resolution images of formations intersecting the borehole. An integrated directional module provides orientation information for structural analysis.

## Description

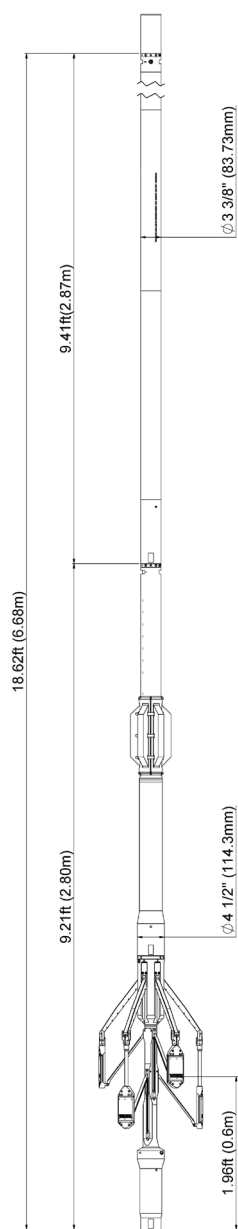
The RMI tool provides resistivity information from 144 buttons on 6 articulating pads. Each pad is mounted on an independent caliper arm. Current from the transmitter flows through the formation and is received at each button measuring the conductivity of the formation directly in front of it. An image of the borehole wall is produced from the conductivity readings. An integrated directional module provides orientation information of the borehole and the tool. The RMI is used for bed dip and direction, fracture, fault and vug identification, borehole stress analysis, quantifying thin and laminated beds and for complex stratigraphic and facies analysis.

## Features

- High resolution images at 120 samples/foot providing 80% borehole coverage in a 6 inch hole
- 6 independent caliper arms with adjustable pressure and articulating pads for borehole profiles in irregular holes
- Accurate directional package for orientation and dip analysis
- Fully compatible with Sondex Ultrawire\* tools
- Easy to transport – can be broken down into sections less than 10 ft



# Resistivity Micro Imager (RMI)



## Specifications

Maximum OD	4 1/2 in. (114.3 mm)
Makeup length	18.6 ft (5.70 m)
Weight	478 lb (217 kg)
Maximum temperature	302°F (150°C)
Maximum pressure	20 kpsi (137.9 Mpa)
Minimum hole	6 in. (152 mm)
Maximum hole	16 in. (406 mm)
Tensile strength	50,000 lb (22,700 kg)

## Sensor Offsets

Button resistivity and caliper	1.96 ft (0.60 m)
Directional module	1.96 ft (0.60 m)

## Borehole Conditions

Borehole fluids	Fresh, salt
Maximum logging speed	30 ft/min (9 m/min)
Tool position	Centralized, Eccentered

## Measurement

Accuracy (resistivity)	+/- 5 %
Accuracy (orientation)	DEVI +/- 0.1 deg AZIM +/- 0.25 deg
Accuracy (caliper)	0.1 in (2.5 mm)
Vertical resolution	0.2 in (5.1 mm)
Depth of investigation	0.3 in (7.6 mm)
Measurement range (resistivity)	0.2–2000 ohm-m
Primary curves	K001...K144
Secondary curves	DEVI, HAZI, RB, P1AZ, RAD1...RAD6

## Hardware and Power Requirements

Tool bus	Ultrawire
Power	18V DC Ultrawire, 200V DC

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