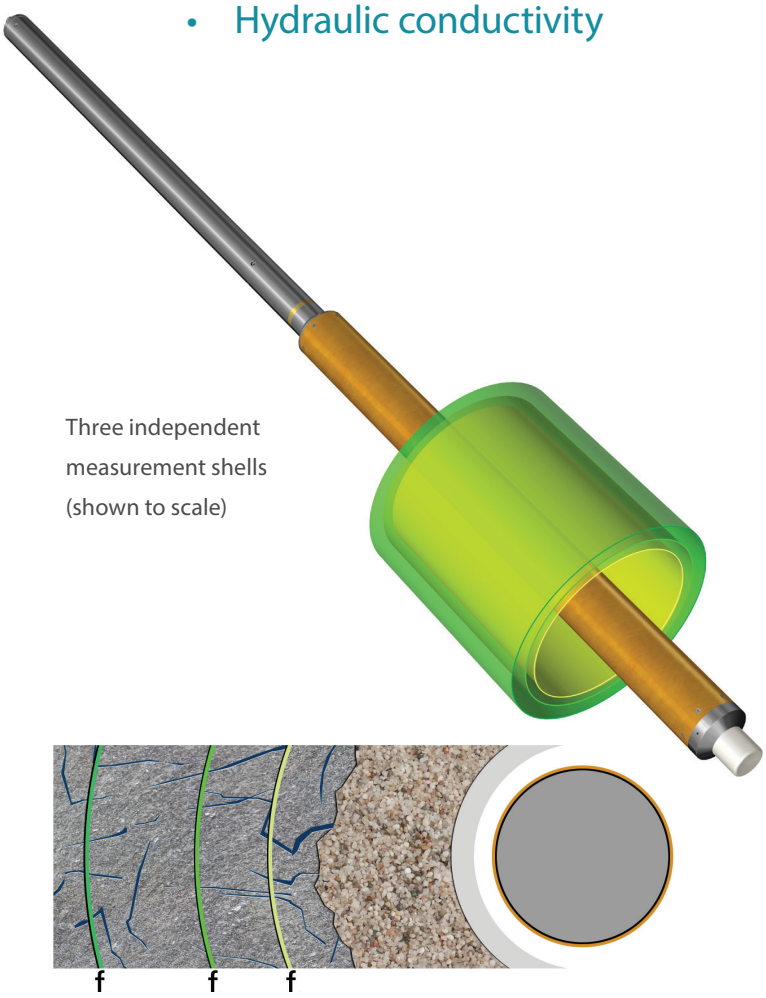
Javelin Wireline Max

Deep-View Magnetic Resonance Wireline Logging Tool

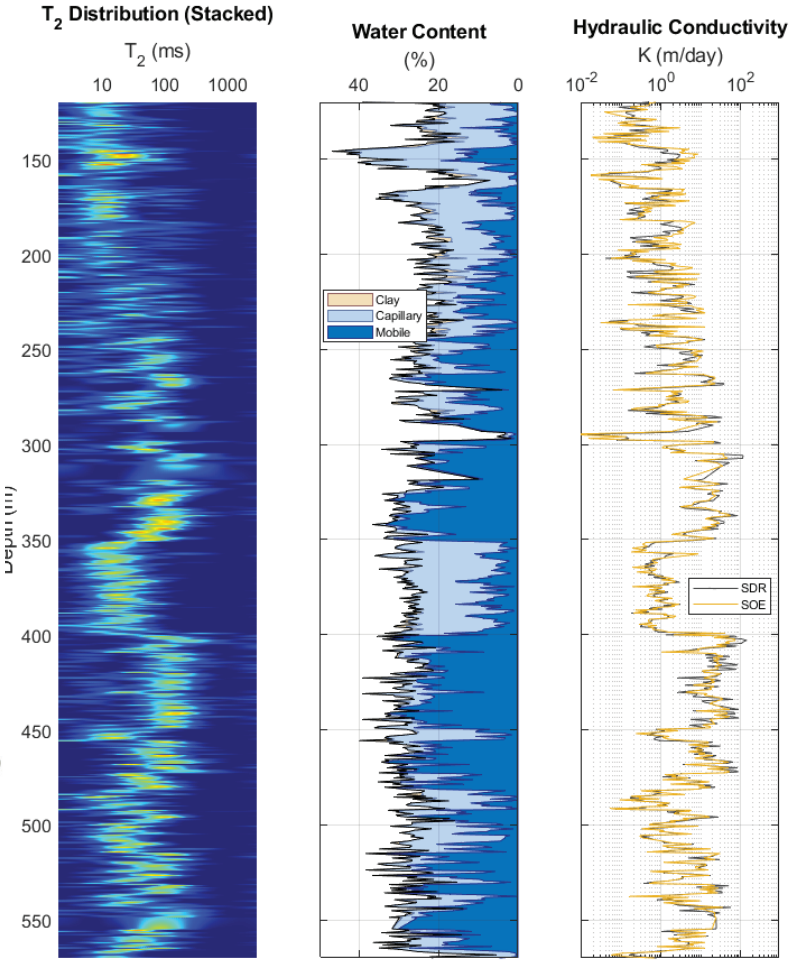
For medium and large diameter groundwater wells

Javelin® Wireline Max provides high-resolution, continuous measurements of principal aquifer properties for water resources investigations:

- Porosity
  - Bound and mobile water content
    - Pore size distribution
      - Hydraulic conductivity



Three independent measurement shells (shown to scale)



Applications

- Well design and completion
- Groundwater resource management
- Aquifer storage and recovery
- Environmental site characterization
- Mine water engineering
- Brine and leach mining

Javelin® Wireline Max Magnetic Resonance Logging Tool

FEATURES

Interchangeable Probes

- 3.5in (89mm) and 5.25in (133mm) probes allow operation in a wide range of boreholes and groundwater wells
- Integrated field joints for rapid and secure deployment

Widest Depth of Investigation

- Measures properties of native formation past the disturbed zone

Multi-Frequency Logging

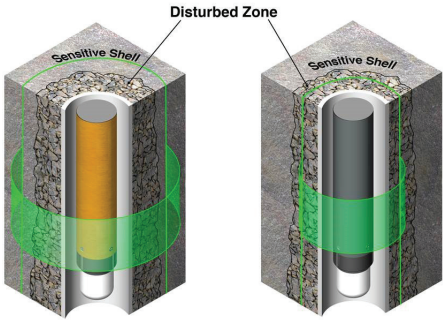
- Three independent measurement shells measured at different diameters of investigation during a single logging run
- Provides increased signal to noise ratio, ability to assess radial variability due to washout and mud invasion, and improved immunity to radiofrequency noise

Industry-Standard Wireline Compatibility

- Operation on 4-conductor or 7-conductor wireline cable ensures seamless integration with existing logging operations

Flexible Surface Station

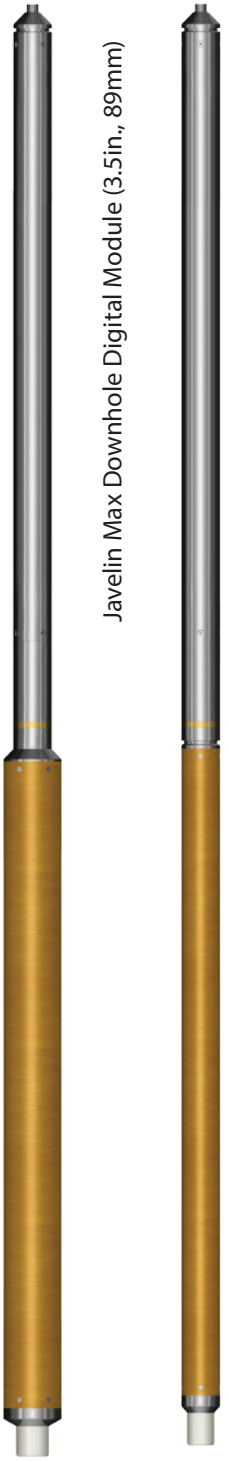
- The Javelin® surface station provides tool power, tool control, telemetry, depth counter, tension display. and interface to PC. It works with all Javelin® Max, Slim and Micro tools.



Javelin deep-view sensitivity

Unusable data without deep-view

Surface Station is available as a rackmount unit (4U) or housed in a compact, shock-mounted case.



SPECIFICATIONS

Javelin Probes:	JPX350	JPX525
Diameter:	3.5in (89mm)	5.25in (133mm)
Length:	65in (165cm)	66in (167cm)
Weight:	60lb (27kg)	108lb (49kg)
Pressure Rating:	2130 PSI	2130 PSI
Sensitive Diameters:	F_1: 12in (30cm)	F_1: 16in (41cm)
	F_2: 13.5in (34cm)	F_2: 18in (46cm)
	F_3: 15in (38cm)	F_3: 21in (52cm)
Vertical Resolution:	16in (41cm)	18in (46cm)
Echo Spacing:	600µs	600µs
Temperature rating:	15°F (-10°C) to 160°F (70°C)	

Downhole Digital Module

Diameter: 3.5in (89mm)

Length: 64in (162cm)

Weight: 68lb (31kg)

Natural Gamma Sensor: Optional

Logging Speed: 100-500 ft/hr

Cable: 3/16 inch (or larger), 4-core or 7-core

Surface Station

110 or 220V, USB, 4U rackmount (in shock-mounted case)

Compatible with with both Javelin Wireline

CE Certified. FCC, CTick, CE Emissions Compliant

Protected by US Patents: US 10,162,026 B2; US 10,302,733 B2; US 8,816,684 B2; US 9,348,054 B2; US 9,588,068 B2; US 8,736,264 B2; US 10,113,982 B2
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