

MI3



ICEFIELD TOOLS

precision borehole surveying technologies



MI3 Digital Borehole Survey Tool



- **TEN YEARS PROVEN**

Reliable and accurate. The MI3 borehole inclinometer uses data from a miniature triaxial magnetometer and a triaxial accelerometer to determine the instrument orientation in space.

- **RUGGED AND RELIABLE**

Worried about delicate computers at your drill site? The MI3 tool is operated using the supplied Palm® PDA (e.g., the Meazura™ Palm® which is waterproof to IP67 standards).

- **SIMPLE TO OPERATE**

Press as few as 3 buttons to start a multishot survey. No special training is required and drill crews can operate the units.

- **INSTANT RESULTS**

MI3 tools are completely digital, meaning that survey results are available immediately upon recovery. Digital data also mean no more data entry errors. Menu-driven software provided with the MI3 produces data files suitable for loading into spreadsheets and popular data-visualization software.

- **ANY DIRECTION**

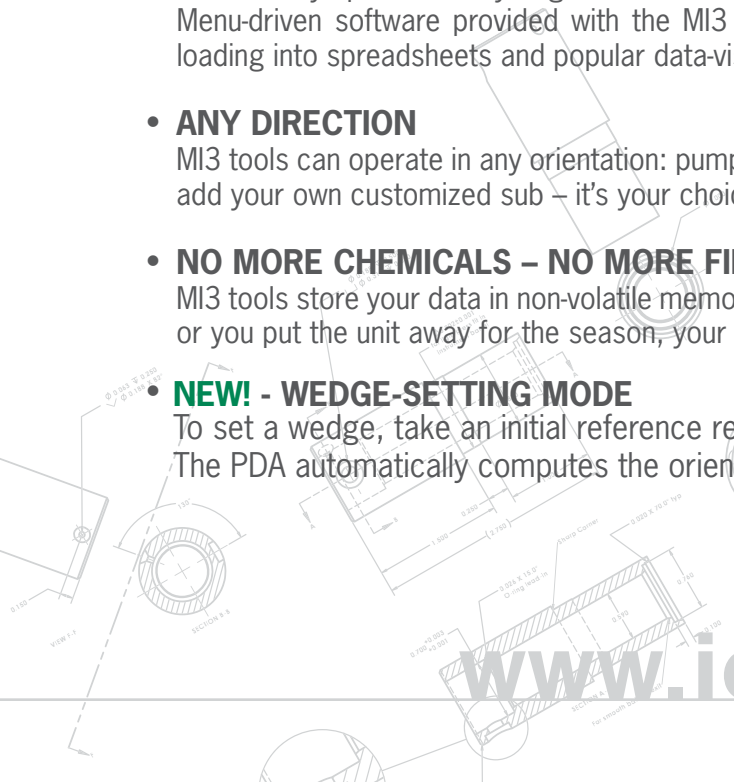
MI3 tools can operate in any orientation: pump them, run them on an overshot, add your own customized sub – it's your choice.

- **NO MORE CHEMICALS – NO MORE FILM!**

MI3 tools store your data in non-volatile memory. Even if the batteries run down or you put the unit away for the season, your data are safe.

- **NEW! - WEDGE-SETTING MODE**

To set a wedge, take an initial reference reading on the surface and then a second downhole reading. The PDA automatically computes the orientation of the wedge.



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AN INDUSTRY FIRST: THROUGH-THE-BIT AQ SURVEYS

With a diameter of only 25.4mm, the MI3 is the first tool to offer omni-directional, digital through-the-bit bore-hole surveys in AQ drill rod. The MI3 can also be used in narrow blasting or geotech holes.

MAGNETIC DIAGNOSTICS

Unlike photographic or mechanical instruments, MI3 tools give you diagnostic information on the strength and direction of the local magnetic field. These parameters can be used to determine whether the azimuth is trustworthy – with the old tools, all you could do was trust the number!

SINGLE-SHOT, MULTISHOT, OR WIRELINE OPERATION – IT'S YOUR CHOICE

Every MI3 tool can operate in single-shot, multishot, or wireline mode. In multishot mode, as many as 64 000 data stations can be recorded without any electrical connection to the instrument (batteries are readily-available AA cells). In wireline mode, a two conductor cable connects the MI3 to a computer that displays survey results in real-time. In any mode, you can choose where and how often you want to stop and take readings.

SPECIFICATIONS:

Sensor	Type	Range	Accuracy	Shock
Inclination	Triaxial	360° (any orientation)	±0.1°	6000g
Magnetometer	Triaxial	100 000 nT	±0.5°	N/A
Temperature	Solid State	-30°C to +85°C	±1°C	N/A

DIMENSIONS:

	Diameter	Length	Weight	Pressure rating
Bare instrument	25.4mm (1.00")	1.16m (45.6")	1.9 kg (4.2 lbs)	300 m (H ₂ O)
In pressure barrel	33.4mm (1.315")	1.88m (73.8")	8.6kg (19 lbs)	3500 m (H ₂ O)

RUN TIME: 64 000 data points (memory limited) or 120 hours

SHOT INTERVAL: 5 seconds minimum

POWER: 6 x AA field-replaceable alkaline batteries

UPGRADES: Firmware field-upgradeable; no-charge software updates

TEMPERATURE RANGE: -30°C to +85°C

INTERFACE: Serial and/or IrDA®



NOTE: Specifications subject to change without prior notice / Spécifications sujettes à changements sans préavis. IrDA® is a registered trademark of the Infrared Data Association®. Bluetooth® is a registered trademark of Bluetooth SIG Inc. Palm® is a registered trademark of Palm Inc. Windows® is a registered trademark of Microsoft Corporation. Meazura™ is a trademark of Aceeca International Limited. GYRO SHOT®, AUTO SHOT® and HIGH SIDE SEEKER® are registered trademarks of Icefield Tools Corporation. Product photos by www.archbould.com

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