

# AT A GLANCE



HIGH PERFORMANCE DSP

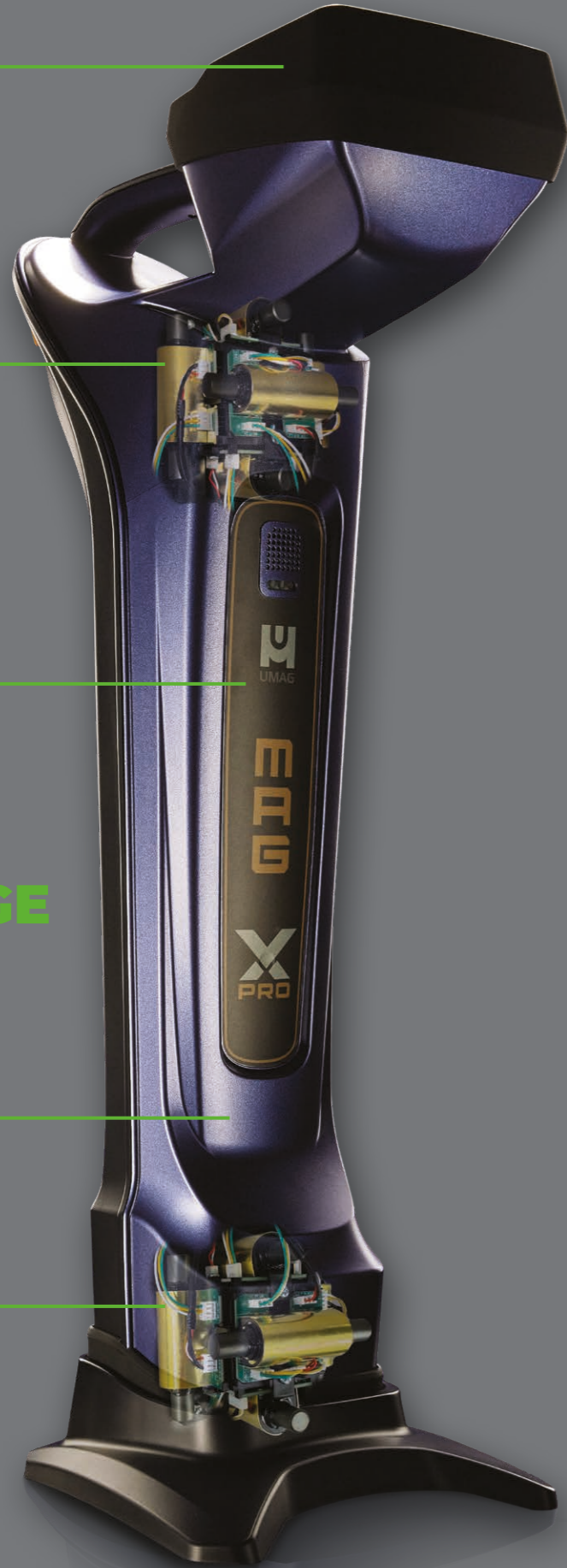
HIGH PRECISION, STRONG AGAINST INTERFERENCE, FARADAY SHIELD, SOLID CORE 3D ANTENNA CLUSTER

ANTENNA SIGNAL CONDITIONING MODULE

DOUBLE THE RANGE FOR SUB-KHZ FREQUENCIES

ANTENNA SIGNAL CONDITIONING MODULE

HIGH PRECISION, STRONG AGAINST INTERFERENCE, FARADAY SHIELD, SOLID CORE 3D ANTENNA CLUSTER



## THE DRILLING STORE AND MORE



### RHINO SUPPLY

Gooiland 2<sup>a</sup>  
1948 RC Beverwijk  
The Netherlands

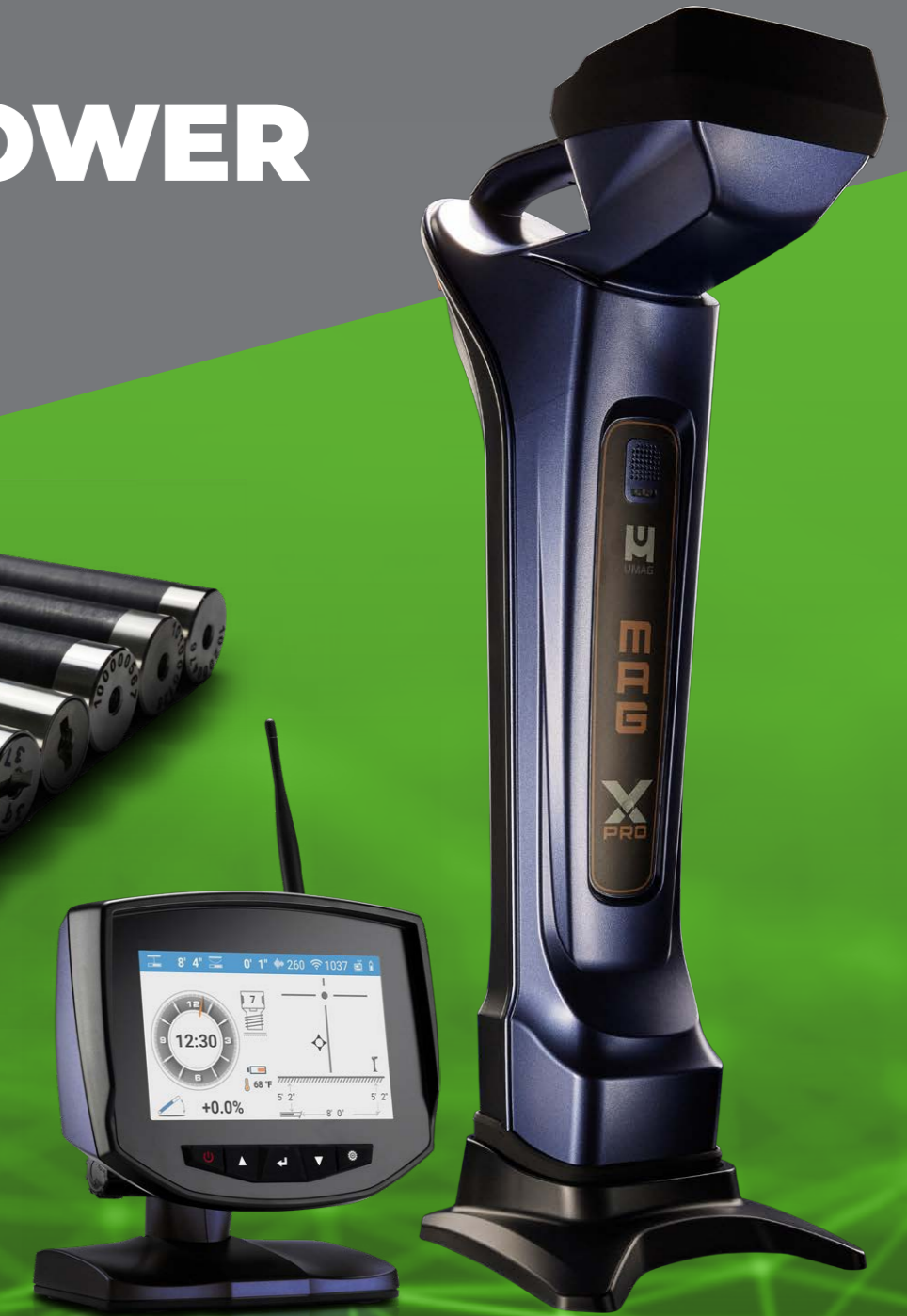
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## GRAB THE POWER



 Underground Magnetics

# LOCATING SYSTEM



## A NUMBER OF ADVANTAGES OVER THE EXISTING LOCATING SYSTEMS:

Special filters in the receiver, making it less susceptible to interference

Longer transmitter range (from 50 to 110 meters!)

More frequencies available (Multi Frequency)

Downhole Switch over Frequency & Power

Ability to drill towards the receiver (bore-to function)

Rechargeable Lithium batteries for the transmitter

Rechargeable Lithium batteries for the receiver and display

Bore Logger

Single Point locating

Handy (no longer having to bend over while measuring)

Handy and compact case

Echo 50XF and 75XF transmitters provide 16 frequency options from .325 kHz all the way up to 41kHz. All in 1 transmitter!

## UNDERGROUND MAGNETICS SIMPLE, POWERFUL, AFFORDABLE

A "Walk-over" locating system successfully for some time now, which has proven to be a very reliable and much less sensitive instrument compared to other existing systems.

Rhino Supply is proud to represent this innovative locating system.

The Special transmitters Echo 70, 90 and 110 meters are slightly thicker and longer than the normal transmitters. To achieve this large range, the manufacturer has depleted the antenna in the transmitter so that the batteries slide into the antenna, resulting in a stronger antenna with more power, and so offering a larger range.

In case of a set with Echo 90 or Echo 110 transmitter, a suitable drillhead is required (see option list). The Echo 70 sonde fits in a Ditch Witch size housing. The Echo 75 XF is a 19" size sonde.

All sets are delivered complete including ao. Carry case, rechargeable Lithium batteries, and chargers.

You can also find the locating system on our website:

<https://rhinosupply.nl/location-system-underground-magnetics-eng/>

# MAG X PRO SPECIFICATIONS



## RECEIVER

System	Mag X PRO
System Frequency	16 Frequencies, .325kHz - 41kHz
Compatible Transmitter	Echo X-Mini / Echo 50 / Echo 50XF Echo 70 / Echo 90 / Echo 110
Temperature Range	-4°F to 140°F (-20°C to 60°C)
Radio Frequency	915 MHz
Telemetry	4 Radio Channels with range up to 3,000 ft. (900m)
Power	Rechargeable Lithium battery 12.5V
Battery Life	Up to 50 hours
Dimensions	29" x 9" x 13" (73.5 cm x 23 cm x 33 cm)
Weight	8.5 lbs. (3,85 kg)
Waterproof	IP65

## DISPLAY

Display	7-inch Color Touch Screen Android Operating System
Data-log	Built-in
Temperature Range	-4°F to 140°F (-20°C to 60°C)
Radio Frequency	915 MHz
Telemetry	4 Radio Channels with range up to 3,000 ft. (900m)
Power	Rechargeable Lithium battery 12.5V
Battery Life	Up to 50 Hours
Dimensions	7.5" x 5.1" x 7.5" (19 cm x 13 cm x 19 cm)
Weight	3.3 lbs. (1,5 kg)
Waterproof	IP65

NEW!



TRANSMITTER	ECHO X-MINI	ECHO 50XF	ECHO 75XF
Frequency	2 Frequencies, 19kHz, 30kHz	16 Frequencies, .325kHz - 41kHz	16 Frequencies, .325kHz - 41kHz
Battery Type	18650 x 1 Rechargeable Lithium Battery	21700 x 1 Rechargeable Lithium Battery 261020 x 1 Lithium Battery (Super Cell)	26650 x 2 Rechargeable Lithium Battery
Battery Life	18650 (3.7v): 18 Hours - Normal Mode	<b>21700 (4.2v):</b> 50 Hours - Normal Mode 12 Hours - High Power Mode <b>261020 (3.7v):</b> 60 Hours - Normal Mode 15 Hours - High Power Mode	<b>26650 x 2:</b> 100 Hours - Low Power Mode 60 Hours - Medium Power Mode 11 Hours - High Power Mode
Depth & Data Range	60 Ft. (18m) - Normal Mode	131 Ft. (40m) - Normal Mode 164 Ft. (50m) - High Power Mode	114 Ft. (35m) - Low Power Mode 180 Ft. (55m) - Medium Power Mode 278 Ft. (85m) - High Power Mode
Dimensions	8" long x 1" diameter	15" long x 1.25" diameter	19" long x 1.25" diameter

TRANSMITTER	ECHO 70	ECHO 90	ECHO 110
Frequency	12 Frequencies, 4kHz - 41kHz	12 Frequencies, 4kHz - 41kHz	12 Frequencies, 4kHz - 41kHz
Battery Type	18650 x 3 Rechargeable Lithium Battery	18650 B2 x 2 Rechargeable Lithium Battery	18650 B2 x 3 Rechargeable Lithium Battery
Battery Life	18650 (3.7v): 60 Hours - Normal Mode 15 Hours - High Power Mode	18650 B2 (3.7v): 80 Hours - Normal Mode 20 Hours - High Power Mode	18650 B2 (3.7v): 120 Hours - Normal Mode 30 Hours - High Power Mode
Depth & Data Range	164 Ft. (50m) - Normal Mode 230 Ft. (70m) - High Power Mode	230 Ft. (70m) - Normal Mode 295 Ft. (90m) - High Power Mode	295 Ft. (90m) - Normal Mode 361 Ft. (110m) - High Power Mode
Dimensions	15,9" long x 1,42" diameter	18" long x 1,42" diameter	24" long x 1,42" diameter

# DRILLING MANAGEMENT REAL TIME BORE LOGGER



## AUTOMATED BORE LOG DATA

ONE TOUCH LOGGING INTEGRATED INTO THE MAG X DISPLAY

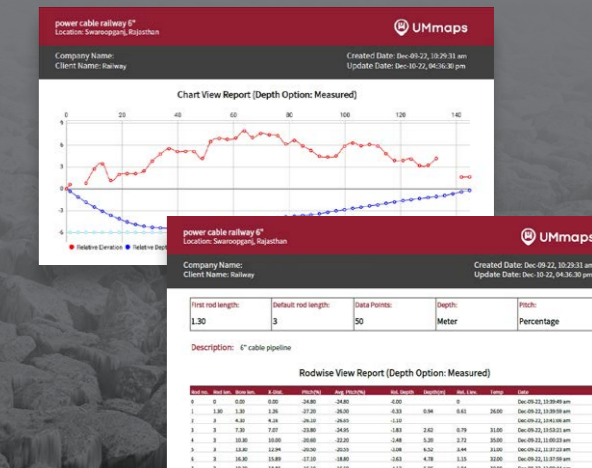
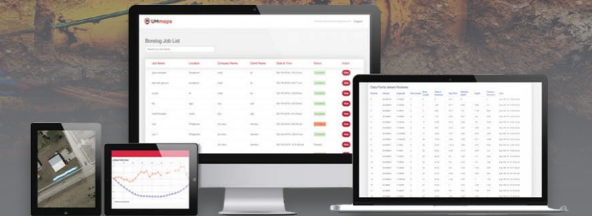
AUTOMATICALLY RECORD ROD-BY-ROD DATA (ROLL, PITCH & DEPTH)

REVIEW ROD-WISE AND CHART VIEWS

ADD AND EDIT UTILITY CROSSING

MONITOR PROJECTS IN REAL TIME

GENERATE & SHARE REPORTS FROM UMMAPS OR MAG X DISPLAY



\* note: data services required on cell phone