

AT A GLANCE



HIGH PERFORMANCE DSP

HIGH PRECISION, STRONG AGAINST INTERFERENCE, FARADAY SHIELD, 3D ANTENNA

ANTENNA SIGNAL CONDITIONING MODULE

DUAL ANTENNA SYSTEM

ANTENNA SIGNAL CONDITIONING MODULE

HIGH PRECISION, STRONG AGAINST INTERFERENCE, FARADAY SHIELD, 3D ANTENNA



THE DRILLING STORE AND MORE



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GRAB THE POWER



Underground Magnetics



A NUMBER OF ADVANTAGES
OVER THE EXISTING
LOCATING SYSTEMS:

Extra 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 transmitter provides
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 for the Mag 9 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 transmit-
ter 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 Mag 9 set with Echo 90 or Echo 110 trans-
mitter, a suitable drillhead is required (see option list).
The Echo 70 sonde fits in a Ditch Witch size housing.
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 5s
SPECIFICATIONS



RECEIVER

| | |
|------------------------|--|
| System | Mag 5s |
| System Frequency | 16 Frequencies, .325kHz - 41kHz |
| Compatible Transmitter | Echo X-Mini / Echo 50XF |
| 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 | 27" x 5" x 12" (68.5 cm x 13 cm x 30 cm) |
| Weight | 6.5 lbs. (3 kg) |
| Waterproof | IP65 |

DISPLAY

| | |
|-------------------|--|
| 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 Horus |
| 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 |



TRANSMITTER

ECHO X-MINI

ECHO 50XF

| | | |
|--------------------|---|---|
| Frequency | 2 Frequencies, 19kHz, 30kHz | 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) |
| Battery Life | 18650 (3.7v): 18 Hours - Normal Mode | 21700 (4.2v): 50 Hours - Normal Mode 12 Hours - High Power Mode 261020 (3.7v): 60 Hours - Normal Mode 15 Hours - High Power Mode |
| Depth & Data Range | 60 Ft. (18m) - Normal Mode | 131 Ft. (40m)- Normal Mode 164 Ft. (50m)- High Power Mode |
| Temperature | <250° F (121° Celcius) | <250° F (121° Celcius) |
| Roll | 24 Clock Position | 24 Clock Position |
| Pitch | 0.1% Resolution | 0.1% Resolution |
| V.BAT | 2.7v - 4.2v | 2.8v - 4.2v |
| Dimensions | 0.98" x 7.9" (2.5cm x 20cm) | 1.25" x 15" (3.2cm x 38cm) |
| Water Proof | IP67 | IP67 |

MAG 9
SPECIFICATIONS



RECEIVER

| | |
|------------------------|---|
| System | Mag 9 |
| 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 Horus |
| 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 |



TRANSMITTER

ECHO X-MINI

ECHO 50

ECHO 50XF

| | | | |
|--------------------|---|---|---|
| Frequency | 2 Frequencies, 19kHz, 30kHz | 12 Frequencies, 4kHz - 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) | 21700 x 1 Rechargeable Lithium Battery 261020 x 1 Lithium Battery (Super Cell) |
| Battery Life | 18650 (3.7v): 18 Hours - Normal Mode | 21700 (4.2v): 50 Hours - Normal Mode 12 Hours - High Power Mode 261020 (3.7v): 60 Hours - Normal Mode 15 Hours - High Power Mode | 21700 (4.2v): 50 Hours - Normal Mode 12 Hours - High Power Mode 261020 (3.7v): 60 Hours - Normal Mode 15 Hours - High Power Mode |
| Depth & Data Range | 60 Ft. (18m) - Normal Mode | 131 Ft. (40m) - Normal Mode 164 Ft. (50m) - High Power Mode | 131 Ft. (40m) - Normal Mode 164 Ft. (50m) - High Power Mode |

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 |