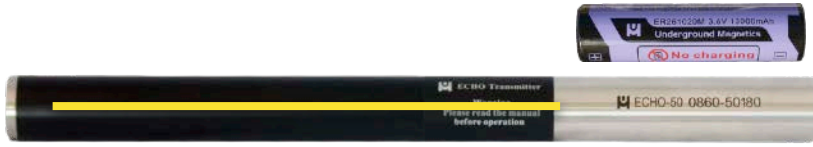


# MAG 3 Transmitter Echo 1, Echo Mini, Echo ST-H, Echo ST



Slot Location Minimum 9" Long

<b>Echo 1</b>	<b>3 Frequencies 4kHz 19Khz 31kHz</b>	
Battery Type	18650	Echo Cell Rechargeable
	261020	Lithium Primary Battery
Battery Life	18650	20 hrs - Normal
	261020	60 hrs - Normal
Depth Range	80 Feet (25 Meters)	
Data Range	130 Feet (40 Meters)	
Dimensions	1.25 in x 15 in (3.2 cm x 38 cm)	

*Echo 1 is our standard size 15" long transmitter*

*3 frequency transmitter. Selection of frequencies must be made before starting bore. No down hole change*



Slot Location Minimum 4" Long

<b>Echo X Mini</b>	<b>Dual Frequencies 19kHz 30kHz</b>	
Battery Type	18650	Echo Cell Rechargeable
Battery Life	18650	20 hrs
Depth Range	40 Feet (12 Meters)	
Data Range	60 Feet (18 Meters)	
Dimensions	.98 in x 7.9 in (2.5 cm x 20 cm)	

*Echo Mini transmitter is designed for smaller drill rigs using small diameter housings. The X Mini has two frequencies, 19 and 30 kHz. Choose the frequency by placing the battery in while holding the Mini pointing down for 19 kHz and pointing up for 30kHz while installing the battery.*



Slot Location Minimum 5" Long

<b>Echo ST-H</b>	<b>Dual Frequencies 19kHz 30kHz</b>	
Battery Type	18650 x 3	Echo Cell Rechargeable
Battery Life	18650 x 3	100 hrs Low Power
Depth Range	60 Feet (18 Meters)	
Data Range	80 Feet (25 Meters)	
Dimensions	.98 in x 15.0 in (2.5 cm x 38 cm)	

*Echo ST-H is designed for small mud motors. The extended battery life is the main feature of the transmitter along with the ability to change frequencies and power down hole. Set frequency same as Echo Mini.*



*Echo ST is designed as a sewer probe. Powered by a rechargeable 16340 Li Battery 20 hrs life.*

*Dimensions are 0.78 in x 6.25 in*