

# STR DIGITAL SUB-BOTTOM

## TRANSMITTER

The **STR Digital Sub-Bottom Transmitter** offers advanced software driven features to deliver a high performance pinger transmitter.



A high power output with **Single Cycle Mode Power Boost** delivers deeper penetration and higher resolution than traditional transmitters. The digital display user interface gives full control of output power, frequency and transmit cycles for nearshore and full ocean depth operations.

A fully adjustable 60kW output is delivered by a solid state drive, designed to eliminate the ringing associated with traditional transmitter designs. The

output frequency is adjustable from 1kHz to 18kHz to accommodate a range of low and high frequency sub-bottom transducers. The transmit pulse length is adjustable from 1 to 10 cycles to provide higher penetration or resolution.

A built in heave input module offers heave compensated data, and the signal output is compatible with industry standard acquisition systems.

### KEY FEATURES

- Powerful 60kW output
- Single cycle mode power boost
- Adjustable frequency output
- Automatic impedance matching
- Heave compensation input

### Applications:

- Towed
- Over-the-side mount
- Bespoke hull mount installation

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## TRANSMITTER OUTPUT

- 60kW single cycle (30kW > 1 cycle)
- Average Output Power > 100W
- 1-18kHz frequency
- Up to 35 pings/second (power dependent)
- No impedance matching necessary
- Transformer free output
- Separate or combined TX/RX mode

## PULSE CYCLES

1 – 10 cycles

## TRANSDUCER MODELS

- Massa TR-1075D: 2.5kHz – 10kHz
- STR TR-1014A: 10kHz – 14kHz

## RECEIVER

- Initial Gain: -10 to +30dB gain
- Automatic attenuator for anti-saturation

## SIGNAL OUTPUT

Isolated 10V P-P

## HEAVE COMPENSATION INTERFACE

- RS232 input, TSS1 Data String
- 9600 – 19200 baud

## SV CORRECTION

- 1438ms – 1562ms
- Up to 35pps

## INPUT TRIGGER

- 3V–30V positive edge pulse
- 1ms–10ms pulse
- Isolated ground
- Internal hardware trigger for test

## OUTPUT TRIGGER

- 5V positive edge pulse
- 1ms or 10ms pulse
- Isolated ground

## POWER

85V – 264VAC, 50Hz (160W max)

## CONNECTOR

Amphenol DMS3102A-22-34S

## DIMENSIONS

- 19 inch rack mountable 4U
- 520mm (L) x 430mm (W) x 180mm (H)

## WEIGHT

16kg