



The icTalk Smart Projector is a calibrated acoustic projector that produces a complex range of tones, sweeps and clicks. The icTalk is an omnidirectional sound source that has a frequency range of 10 to 200 kHz with configurable output patterns and operating modes.

The instrument can be deployed autonomously with a configured output pattern and powered by the internal batteries for more than 5 hours. In a cabled setup, the sound output can be initiated and configured in real-time or set up to output sound continuously.



## All-in-one acoustic projector, icTalk.

**Compact** and can be carried in one hand

**Create** custom sounds with the combination of tones, sweeps, pulses, clicks and pauses available

**Connect** to power via data cable or use shorting plug to use internal battery

**Calibrate** other sensors with its known output

**Synchronize** icTalk and icListen Smart Hydrophones

### Applications

Calibration Tone or Sweep

Beacon or Pinger

Source for Sound Channel Modeling

Calibrated Reference

Sea Mammal Sound Simulator

**Frequency:**  
10 kHz to 200 kHz

**Max Depth:**  
900m / 3500m

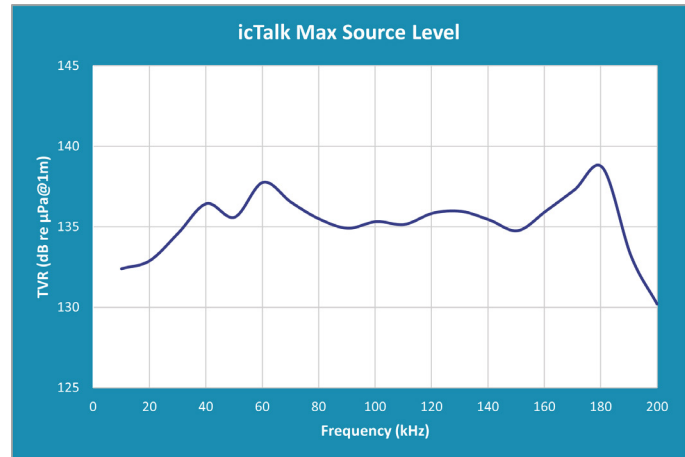
**Interface:**  
RS422 19200 bps

**Mechanical:**  
48 mm diameter,  
250mm length, weight  
584g (in air)



# What makes icTalk different?

Using the icTalk eliminates the need for synthesizer, DAC, and Power Amplifier by combining these inside the instrument along with batteries and a precision timebase to create an autonomous or tethered instrument.



MECHANICAL		UNITS
Mass (3500m)	953	g
Mass (900m)	437	g
Weight in Water (3500m)	624	g
Weight in Water (900m)	108	g
Overall Length	267	mm
Body (Can) Length	165	mm
Body Diameter	48	mm
POWER		
Internal Battery Life (active)	7	Hours
Recommended Supply Voltage	18 - 36	V
Supply Voltage Limits	15 - 42	V
External Power (typ/charging)	1.8 / 3.8	W
SIGNAL PERFORMANCE		
Bandwidth	10 - 200	kHz
SPL, broadband max (+/-3 dB)	135	dB re 1 μPa @ 1 m
Harmonic Distortion (THD)	1.0	%
Frequency Resolution	1.0	Hz
Attenuation	+7/-24	dB
SOFTWARE/INTERFACE		
Talk Assistant Software Support	Yes	
Outputs	Tone, Sweep, Ping, Click	