



icTalk HF

Calibrated Sound Source

10 kHz to 200 kHz

The icTalk Smart Projector lets you combine tones, sweeps and pauses to produce simple or complex sounds. The icTalk HF can be used for calibrations, quality assurance at sea, or as a general purpose sound source.

The icTalk HF sets the standard for calibrated projectors with its high performance and ease of use. Use it in stand-alone mode, as a beacon, or connected via cable to a PC.

Applications

- Underwater acoustic system
- Quality Control
- Sea mammal sound simulator
- Calibration tone or sweep
- Beacon or pinger
- Source for sound channel modeling

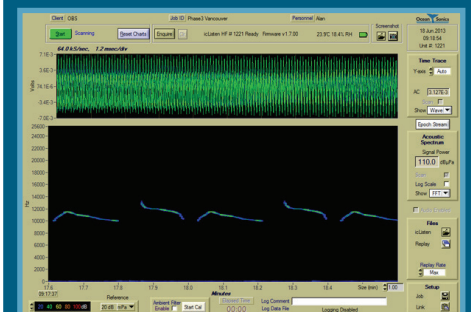
- **Create** custom sounds with the combination of tones, sweeps, pulses & pauses available
- **Connect** to power via data cable to a PC or run for days autonomously using a shorting plug
- **Talk Assistant** PC software to enquire & setup sound patterns in the instrument. It can produce pulsed or continuous sweeps
- **Calibrate** other sensors with its known output
- **Ensure** best orientation and performance by mounting icTalk into our Float Collar
- **Compact** and can be carried in one hand
- **Deploy** down to 3500m



Broadband Smart Projector

Options

- Depth: 200m/3500m
- Link: Serial
- Case: Engineered plastic/Titanium

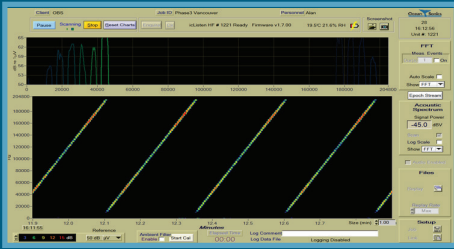


Lucy displaying a synthesized whale call

LUCY Software

Display real time waveforms or waterfall displays using our PC software LUCY. Lucy is used to setup and test icListen.

Talk Assistant



Displaying repeated sweeps.

Dimensions

4.5cm (dia) x 22cm (length)

Bandwidth

10 kHz to 200 kHz

Power

12 - 24 Vdc input
5mW stand-by mode
Internal lithium Ion
3.7V, 2.6 A-h rechargeable batteries

Case Material

Engineered Plastic - 200m
Titanium - 3500m

Peak Output

Output is flat (± 3 dB) at 140 dB re μ Pa at 1m. Selectable between 120 and 140 dB

Instrument Sync

Outputs PPS to align tones accurate to 1 μ sec

Harmonic Distortion

1%

Data Interface

Standard Serial
Optional Ethernet



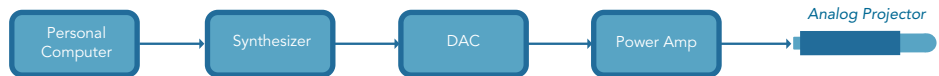
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What makes icTalk different?

It's the only autonomous digital projector available

The hand held icTalk includes a rechargeable battery & PC software for creating a wide range of sounds. The projector can loop continuously when powered, trigger from a magnet, run once, or be controlled by the PC software Talk Assistant.

Traditional approach

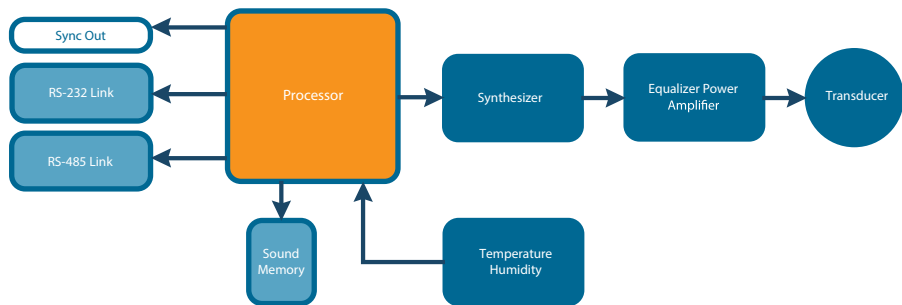


Smart Projector approach



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.

icTalk Block Diagram



icTalk Frequency Response

