



ATS ELAT ACOUSTIC TRANSMITTER



Model ELAT: Weight 80 mg | Size 12.0 x 2.0 mm

THE SMALLEST ACOUSTIC TAG AVAILABLE

The ATS ELAT (Eel Lamprey Acoustic Tag) was developed to study juvenile lamprey and has a host of potential applications with tagging smaller fish. At a weight of 80 mg, the tag enables researchers to tag and study smaller fish safely, without burdening the fish with a larger tag. The tag is compatible with JSATS receiving equipment allowing over 65,000 unique codes on the 416 kHz frequency. The short sub-millisecond transmission allows for excellent performance in high-noise environments.

Tag codes and pulse rates are programmed by ATS during factory setup and may be modified later by the user using the ATS Light Box.

Features:

- Extremely small form factor for tagging juvenile/small fish
- Acoustic beacon to be detected by receiving equipment
- Over 65,000 unique code IDs possible
- User-programmable with portable Light Box

Technical Specifications

- **Weight (in air):** 80 mg
- **Transmitter power:** +148 dB re: 1 μ Pa @ 1 meter
- **Frequency:** 416.7 kHz \pm 0.5%
- **Biocompatible coating:** Parylene C
- **Operational temperature:** 0 to 31°C
- **Pulse Rate Interval:** 1-second resolution, user programmable

| Battery type | Weight | Size | Interval (sec) | Expected run time (days) |
|--------------|--------|--------------|----------------|--------------------------|
| BR1K42 | 80mg | 12.0 x 2.2mm | 3 | 15 |
| | | | 5 | 30 |
| | | | 10 | 45 |