



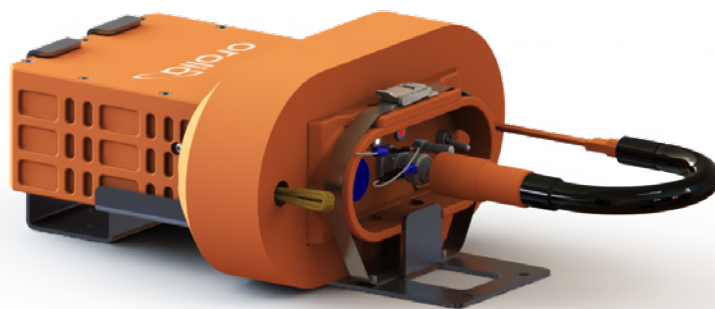
The Global Leader in  
Resilient PNT



## KANNAD ULTIMA-S™

### Survival Emergency Locator Transmitter

Orolia's Kannad Ultima-S is a new generation of Survival Emergency Locator Transmitter – designed to be installed in the aircraft cabin or in the life rafts. Orolia's Kannad Ultima-S offers various installation configurations either through a mounting bracket or with a bag, depending on the aircraft type.



#### Key Features

- **Compliant with the lithium batteries special conditions:**

Kannad Ultima-S combines the latest generation of lithium battery technology and a smart design, which enables the unit to comply with the latest FAA / EASA lithium battery requirements (DO-227A & (E)TSO-142b). Lithium batteries allow temporary operation at cold temperature (-40 °C).

- **Manual & automatic activation with accurate location:**

The unit can be manually activated by the crew members through the ELT's switch and is also automatically activated upon contact with water. Once activated, a 406 MHz distress signal is sent to the Search & Rescue teams using the Cospas Sarsat satellite and ground infrastructure, which allow for global coverage without subscription fee. The beacon's location is determined through its embedded GNSS receiver, using both GPS and Galileo satellite constellations for faster signal detection and robust position acquisition.

- **Distress signal acknowledgement to the user (optional):**

To reassure the user Kannad Ultima-S includes a distress acknowledgment capability based on Galileo Return Link Service (RLS), which provides a visual indicator that the distress message has been successfully received on the ground. This capability is subject to country regulations.

- **Easy integration through various installation options:**

Kannad Ultima-S is available in buoyant version, (category A) for cabin integration, and in non-buoyant (category B) version for life raft applications. Both versions can be mounted rigidly either horizontally or vertically on a bracket, and requires little storage room, thanks to its compact design. The mounting bracket is optimized for quick and easy, one hand, extraction. A bag is also available.

- **Second generation ready:**

Cospas Sarsat infrastructure is currently evolving to Second Generation, which will provide more accurate independent location and more information in the 406 MHz message. In order to protect your investment, Kannad Ultima-S is compatible with Second Generation through a software upgrade, once Cospas Sarsat service will be ready.

## Technical Specifications

**Product type:** Category A and B; Class 2, Cospas Sarsat ELT(S)

**Activation:** Manual and water switch (cat A variants), manual (cat B variants)

**Signal / message:**

- 406 MHz, First Generation Beacon; programmable protocols
- 121.5 MHz homing signal

**Location:** GPS and Galileo L1 internal receiver, 72 channels

**Distress acknowledgment through Galileo RLS Type 1**

**Battery type:** Lithium, MnO<sub>2</sub>

**Battery service life:** 6 years

**Dimensions:**

- With antenna: 320 mm x 200 mm x 105 mm
- Without antenna: 200 mm x 200 mm x 105 mm

**Weight:** 1.55 kg (without bracket)

**Mounting:** horizontal or vertical with bracket, bag

**Programming:** PR600 programmer or dongle, via dedicated connector

**RFID tag**

**Cospas Sarsat short and long self-test**

**Temperature environment:**

- -20 °C - +55 °C for full operating lifetime
- -40 °C temporary operation for 30 min
- -40 °C - +85 °C storage

**Approvals and certifications:**

- Cospas Sarsat TAC pending
- (E)TSO-C126c, (E)TSO-C142b
- DO-227A, DO-160G, DO-178C/254

