

# INTEGRA 406 GPS EMERGENCY LOCATOR TRANSMITTER



## Emergency Locator Transmitter

The Integra ELT offers the highest level of resiliency through an innovative backup antenna design. Operating independently of the aircraft, the back-up antenna will transmit your position through the 406MHz frequency to the Cospas-Sarsat search and rescue satellites.

This version is the Extended Range (ER) of the AF INTEGRA which operates from -40°C to +55°C and includes the ARINC e-nav module.

The INTEGRA ELT is a major step forward in the development of ELT technology. It is innovative, reliable and its value added features include:

- Smallest & lightest ELT
- Internal GPS
- Unique internal 406MHz back-up Antenna
- -40°C Certification (ER)
- Programming dongle
- Specific versions: Aircraft/Helicopter/Portable
- Maximum reliability, minimize size/weight

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## Five great reasons to buy the Integra ELT

### 1. GPS inside

With GPS, the search area is reduced to just 0.03sq miles. The typical search area without GPS is 28sq miles.

### 2. Antenna inside

GPS antenna and a back-up 406MHz antenna for continued transmission of emergency signal in various scenarios. When the aircraft suffers considerable damage through impact, often the antenna is destroyed and/or the cable between the ELT and antenna is broken, Integra's internal antennae provide the unique ability to transmit and send both aircraft identification data and GPS position even when the crew remove it from the aircraft.

### 3. Portable

Continues to transmit even when removed from aircraft.

## Integra ELT features

- Integrated internal 406MHz back-up antenna
- Compact size
- Operates at temperature as low as - 20°C (-40°C version also available), with 24 hour certified transmission on 406MHz (distress) signal and over 48 hours on 121.5MHz (homing) signal
- No power supply required
- Choice of Remote Control panels with 3-wire and 2-wire installation options
- Quick and easy retrofit with universal mounting bracket
- EASA minor change approval available for most common aircraft
- Option to connect to a panel-mounting GPS using the NMEA Integra e-Nav shown below

### 4. GPS options

Optional NMEA Integra e-Nav can connect to aircraft's own GPS, for regular monitoring of your position.

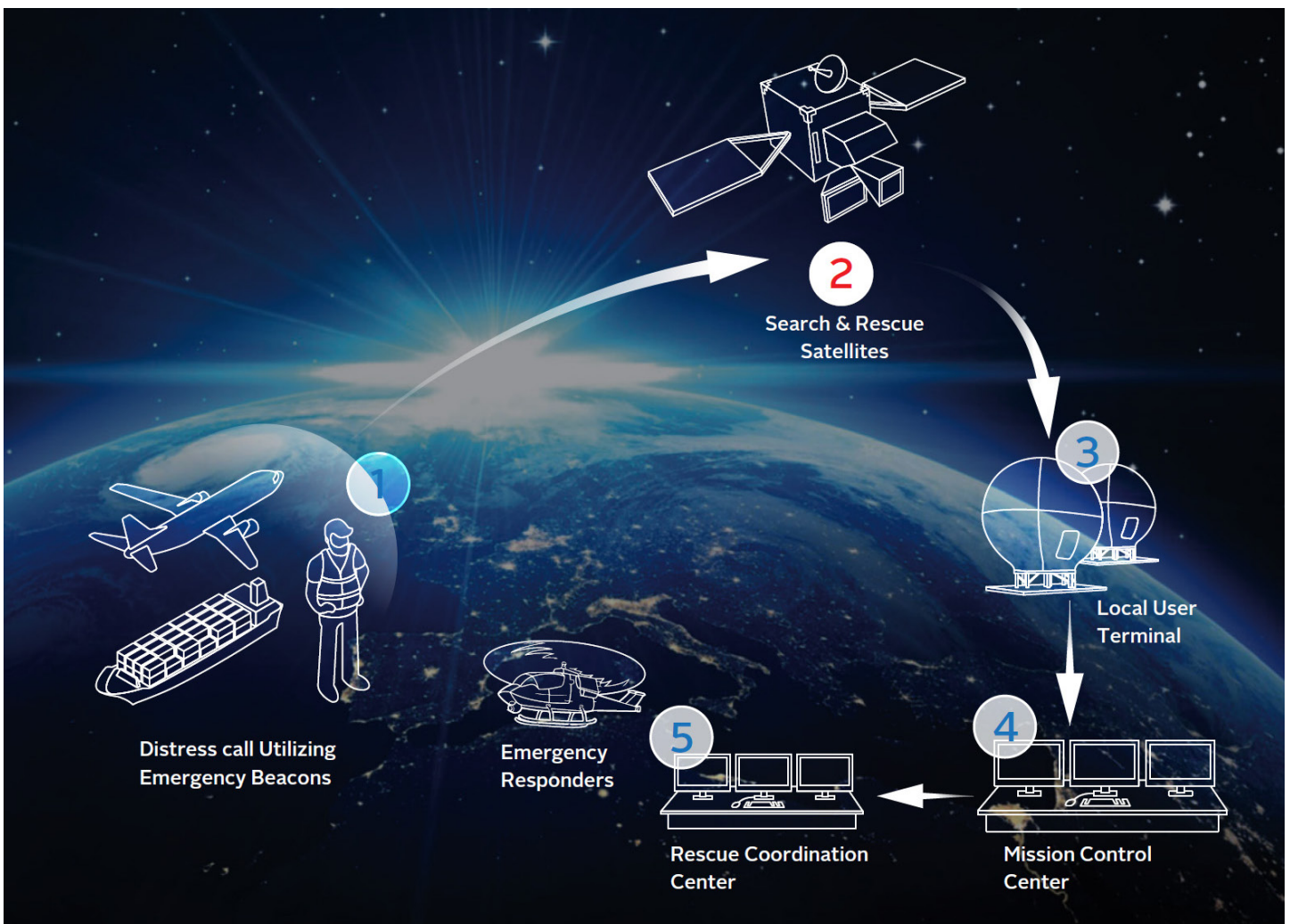
### 5. Economic installation

Capitalising on the benefits of built-in GPS and antennas, Integra costs less to install than systems requiring external antennas or GPS.



## How the end-to-end satellite-based SAR Ecosystem works

1. A **beacon** distress signal is sent from aircraft, marine vessel or individual. The Integra 406 GPS ELT provides a direct connection to global Search And Rescue (SAR) services when an emergency situation occurs. Integra ELT is automatically activated, but also offers manual activation via a remote control switch in the panel.
2. Beacon positioning/location data is relayed by satellite communications to satellite ground stations or Local User Terminals (LUTs).
3. The **Local User Terminal** computes the location before sending alerts to the appropriate Mission Control Centers (MCC).
4. The **Mission Control Center** collects, stores and sorts the data received from LUTs and other MCCs and distributes alerts to associated Rescue Coordination Centers (RCC).
5. The **Rescue Coordination Center** notifies and coordinates emergency response/rescue teams.



**Integra ELT pack includes:**

- 1. Integra ELT (AF or AF-H Class 2 only)
- 2. Universal Mounting Bracket + strap
- 3. RC200 Remote Control Switch
- 4. DIN-12 ELT Connector and Sub D Connector

**Technical Specifications**

- Automatic Fixed Emergency Locator Transmitter with G-Switch sensor
- Two-frequency ELT (121.5/406.037MHz)
- COSPAS -SARSAT Class 2 (-20°C to +40°C) or class 1 (-40°C to +50°C) ER type
- RTCA DO-160°/EUROCAE ED14 Environmental conditions
- TSO/ETSOApproved TSO-C126a, C142a / ETSO 2C91a, 2C126, C142a



**Operating Lifetime:**

Minimum operating duration at -20°C (ELT Class 2) or -40°C (ELT Class 1) is 24 hours on 406 MHz and over 48 hours on 121.5 MHz

**Controls and indicators:**

ARM/OFF/ON switch, Bright red LED, Internal Buzzer, Outside Buzzer option

**Interfaces:**

DIN12 socket for remote control panel (RCP) and pin programming dongle option, BNC antenna connector

**Battery:**

Replacement Interval every 7 years, Accessories directly powered by ELT battery

**Unique functions:**

Integrated 406 antenna, GPS built-in (antenna & receiver)

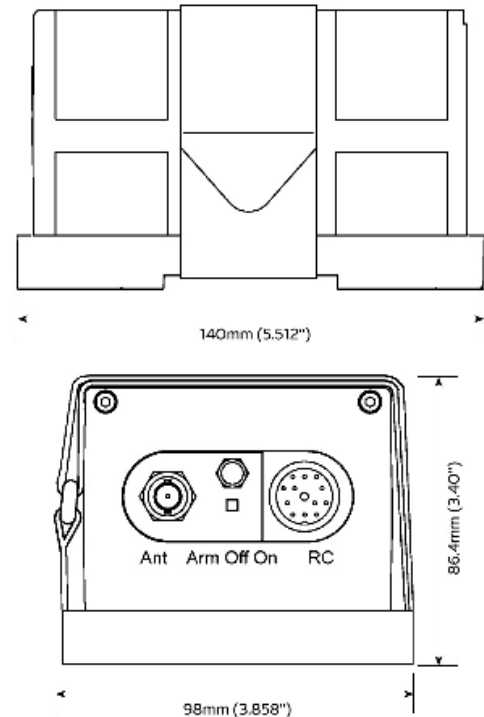
**Housing:**

Material Molded plastic

Color: Yellow (Colour compounded)

Dimension: Installed with mounting bracket 175x99x88. (64mm .89x3.90x3.40in.)

Weight including batteries: Typical 850g (1.873lb) Max 875g (1.929lb)



**Part Numbers : Integra 406 versions:**

Versions	Fixed*	Portable*	Pack
Aircraft	AF: S1851501-02	AP: S1851501-02	Pack AF: 1202502
Helicopter	AF-H: S1852501-02	AP-H: S1854501-02	Pack AF-H: 1202503

\*All versions available in -ER mode for Extended Range -40°C. P/N extension is -01 instead of -02 above.

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