



# AMERI-KING CORP.

406 MHZ ELT EMERGENCY LOCATOR TRANSMITTER  
(406 / 243.0 / 121.5) MHZ,

P/N AK-451-11 Type (S) SERIES



## WORLD'S LEADING PRODUCER OF ELT AND MULTI AXES ELT

### DESCRIPTION

The Ameri-King AK-451- 11 is a USA FAA TSO'd approved, Transport Canada approved, European EASA ETSO'd approved, Brazil Anatel approved, 406 MHz ELT Emergency Locator Transmitter, Types (S) Survival. It transmits immediately and accurately, on triple (406 Satellite /243 Military /121.5 Civilian) MHz frequencies.

The accuracy, for the ground search area, is 1-2 kilometers. Having triple frequencies insures your distress message reaches both NOAA Satellite Operation and US Air Force AFSR Ground Operation, Search and Rescue Team, with 100% fully confidence, due to transmitting on both 243.0 MHz Military and 121.5 MHz Civilian bands, for immediate ground search dispatch, narrowing the searching time to almost nothing.

The choice is clear when it comes to Safety, Fast, Accuracy, Reliability, Price and Product Support, Ameri-King's AK-451-11 Type (S) Series is your best choice.

### FEATURES

- Triple Frequencies, 406 / 121.5 / 243 MHz.
- **Built in Antenna:** Portable Hand Use.
- Ultra Long Lasting, **up to 78 hours @-20 deg C, @ End of 5 yrs useful life time.** Lithium Battery Package, Li MnO<sub>2</sub>, 4 D-Size Cells.
- Coding Programming Worldwide, all available ELT Protocols, i.e. Long Messages and Short Messages (Location Protocol; User Location Protocol; User Protocol)
- Self Test built-in. OXCO tech for perfect grad temp stability
- PERP: 5W (406.028 MHz) 50 mw (243.0/121.5) MHz
- RTCA Env Categories: F1XBA[204/183][204/183]XR [204/183]XXSZXXX(AC)204/183](BC)XXXX(C/204)
- DIRECT RETROFIT to AK450, ACK/Pointer/Narco/Artex/Kannad

Made in U.S.A.



# SPECIFICATIONS FOR MODEL AK-451

**APPROVALS:** FAA TSO C126/C91a, Transport Canada;  
European EASA ETSO 2C126/91a, Brazil Anatel,  
and Cospas Sarsat ELT Emergency Locator  
Transmitter, Types (AF)(AP)

## PHYSICAL CHARACTERISTICS:

### \*Size and Weight:

Main unit: (4.27"Wx2.95"Hx5.64"L) 1lb 14 oz

Portable antenna: (17"L) 4 oz

Aural Monitor: (0.7"Dia x 1"D) 0.3 oz

### \*Case and color:

High impact, fire resistant, waterproof, high temperature ABS plastic, safety international orange color.

## GENERAL SPECIFICATIONS (STANDARD CONDITIONS):

**Operating frequencies:** 406.028 +/- 0.001 MHz  
243.0/ 121.5 MHz +/- 0.0025%

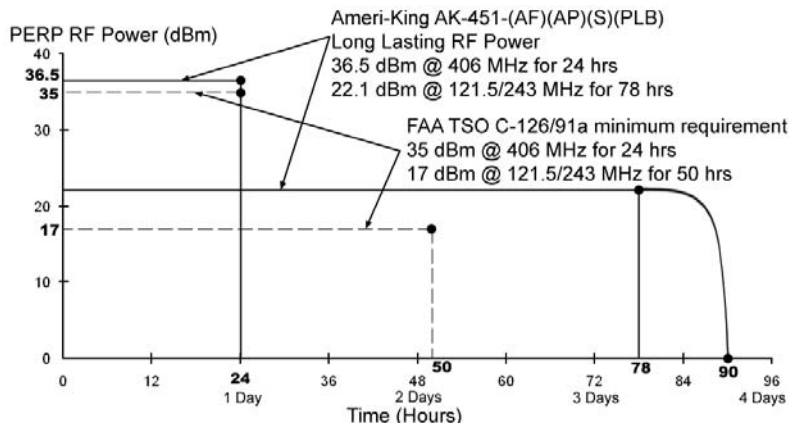
### Transmitter Power Output:

5 W +/- 2 db @ 406 MHz, for 24 Hrs

22 +/-2 dBm @ 243 and 121.5 MHz, for 78 Hrs

**Self Test:** Built-in with Failure detection flashing code number for Diagnostic Maintenance check: RF Output Power & Frequencies, Battery Low Voltage, ELT shuts down etc.

## OPERATING LIFE, 78 HRS @ -20 deg C @ End of 5 years Battery Life (TYP):



TYPICAL LIFE TEST @ -20 DEGREES C @ END OF 5-YEAR BATTERY LIFE



**AMERI-KING CORPORATION**  
**TOMORROW'S TECHNOLOGY ... TODAY!!**

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## ENVIRONMENTAL TEST SPECIFICATIONS:

\* RTCA DO – 204A / 183 / 227

\* RTCA DO – 160E ENV.CAT F1XBA[204/183][204/183]  
XR[204/183]XXSZXXX(AC)204/183](BC)XXXX(C/204)

\* **TEMP. AND ALTITUDE:** Category F1

Low / High Temperature: -20 / +55 deg C (Operating)

-55 / +85 deg C (Storage)

Altitude: 55,000 feet

\* **AUTOMATIC CRASH ACTIVATION:**

Velocity change of 2.3 +/- 0.3G (4.5 +/- 0.5 fps)

\* **CRASHWORTHINESS:** 100G, 23 ms, 6 directions

## PROGRAMMING CODING PROTOCOLS:

Worldwide, all available ELT Protocols in Long and Short Messages (Standard/National/User)

**Location Protocol (Long):** Standard Location ELT

ELT with A/C 24 Bit Address; ELT with A/C Operator

Designator; ELT with Serial No.; National Location.

**User-Location Protocol (Long):** Aviation; ELT with Serial

No.; ELT with A/C Operator Designator & Serial No.; ELT

with A/C 24 Bit Address.

**User Protocol (Short):** Aviation; ELT with Serial No.;

ELT with A/C Operator Designator & Serial No.;

ELT with A/C 24 Bit Address.

## ACCESORIES SUPPLIED:

Lithium Batteries Package, Ultra Long 78 Hrs, LiMnO2,  
Portable Antenna

## WARRANTY:

Two (2) years. Optional extended four (4) years.

Lifetime warranty includes no charge for the electronic components. After the warranty has expired, customers shall pay only the labor repair cost.

## HOW TO ORDER:

**AK-451-(S):** ELT Survival, 406/243/121.5 MHz.


**451017-4S:** Antenna, Portable Hand Use.

**4500010-1:** Battery Package, Lithium, LiMnO2,  
90 Hrs lasting.

**TS-451:** ELT Test Set and ELT Coding Equipment for  
AK-451

**TS-451-ID:** ELT Coding Reader Equipment for AK-451

All AK-451 ELTs are Triple Frequencies (406.028 / 121.5 / 243.0 MHz),  
FAA TSO C-126/91a and EASA TSO 2C-126/91a Approved

Ameri-King P/N	Description	Antennas Included	
 An orange, rectangular emergency locator transmitter (ELT) with a long, black, telescopic antenna extending from the top. The device has several control buttons and a small display on its front face.	<p><b>AK-451-(S)</b> (AK-451-11)</p>	<p>ELT Survival, with portable soft case ONLY (no other accessories included)</p>	<p>Portable Antenna P/N 451017-4S permanently attached to the unit</p>