



AMERI-KING CORP.

406 MHz ELT EMERGENCY LOCATOR TRANSMITTER
(406 / 243.0 / 121.5) MHz,
P/N AK- 451-10 SERIES



WORLD'S LEADING PRODUCER OF ELT AND MULTI AXES ELT

DESCRIPTION

The Ameri-King AK-451-(10) Series 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 (AF) Automatic Fixed, (AP) Automatic Portable. It transmits triple (406 Satellite /243 Military /121.5 Civilian) MHz frequencies. The accuracy for the ground search area is 1-3 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.

The AK-451 is OEM Production TC supply to Cessna Aircraft Company, Wichita, Kansas.

The choice is clear when it comes to Safety, Fast, Accuracy, Reliability, Price and Product Support, Ameri-King's AK-451-(10) Series is your best choice.

Made in U.S.A.

FEATURES

- Triple Frequencies 406/121.5/243 MHz ELT.
- Applicable to all Aircraft types: Transport Aircraft; Business Jet Aircraft; General Aviation, Helicopters.
- **Dual Antenna:** Whip Type (300 Knots) and Portable Hand Use
- Ultra Long Lasting, **up to 78 hours @-20 deg C, @ End of 5 yrs useful life time.** Lithium Battery Package, Li MnO₂, 4 D-Size Cells
- Reliable sealed G Switch, for dependable safety.
- Optional Multi Axes (6 Axes) G Switch for Helicopters
- Simple Installation. All accessories include Pre-fabricated Wiring Harness Assy, Remote Control Panel, Audible Warn Buzzer, Coaxial Cable Assy, and Universal Mounting Tray
- Coding Programming Worldwide, all available ELT Protocols, i.e. Short Messages (Serial / Aviation / 24 Bit Address) User Protocol; National 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

SPECIFICATIONS FOR MODEL AK-451-ELT-10 SERIES

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) 11b 14 oz
Remote unit: (2.17"Wx1.20"Hx1.18"L) 1.0 oz
Whip antenna: (15" L) 0.25 lb
Portable antenna: (17"L) 4 oz
Coax Cable Assy: (6 ft) 5 oz
Aural Monitor: (0.7"Dia x 1"D) 0.3 oz
Mounting tray: (4.51"W x 0.75"H x 5.87"L) 4.0 oz

*Case and color:

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

GENERAL SPECIFICATIONS (STANDARD CONDITIONS):

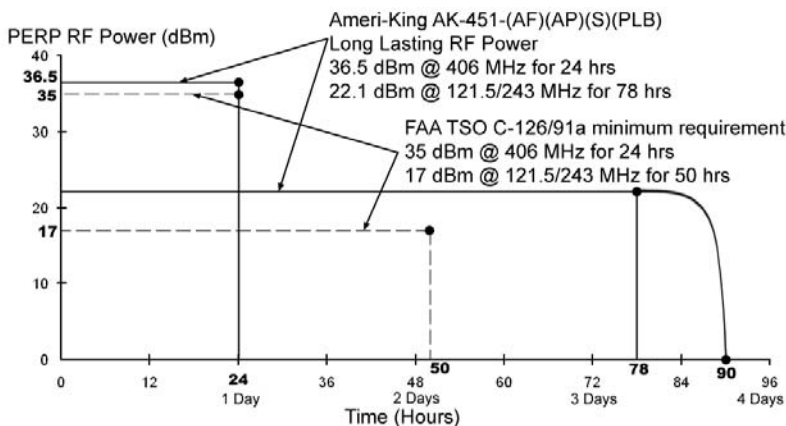
Operating frequencies: 406.028 +/- 0.001 MHz
243.0/ 121.5 MHz +/- 0.0025%

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

INSTALLATION LOCATION:

Tail or Cockpit/ Cabin installation with dual or single Antennas.

PROGRAMMING CODING PROTOCOLS:

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

User Protocol (Short): Aviation; ELT with Serial No.; ELT with A/C Operator Designator & Serial No.; ELT with A/C 24 Bit Address.

National Protocol (Short):

ACCESORIES SUPPLIED:

Lithium Batteries Package, **Ultra Long 78 Hrs**, LiMnO₂; Portable Antenna, Whip Antenna, Coax Cable Assembly, Remote Control Panel, Wiring Interconnect Assembly, Audible Monitor, Mounting Tray, Velcro holder, Hex Key Tool. All of the accessories are provided and can be ordered extra separately.

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-(AP)/Whip/Portable: ELT ,406/243/121.5MHz, Dual Ants

IK-451(-): Installation Adapter Kit for ACK / Pointer / Narco / Artex / Kannad

451017-1B: Antenna, Whip type, Gen Aviation,250knots, 406/121.5MHz

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

*** Each Ameri-King ELT Set comes with dual Antennas, a FREE Soft Case (P/N SC-451) and a FREE Accessory Set including Remote Switch Unit, Pre-Fabricated 25' Wiring Harness Assembly, Audio Buzzer, T-Splitter, and 6' Coaxial Cable Assembly.

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
	<p>AK-451-(AP) (AK-451-10)</p>	<p>ELT Set Auto Portable, with portable soft case</p>	<p>Portable Antenna P/N 451017-4S, 406/121.5/243 MHz</p> <p>Whip Antenna P/N 451017-1B, 406/121.5 MHz</p>