

L-39 Skyrox





IN SERVICE WITH
THREE OPERATORS
WORLDWIDE

PROVEN FOR PILOTS

OF 4TH-5TH GENERATION

FIGHTER AIRCRAFT

COVERS BASIC,
ADVANCED
AND LIFT TRAINING

DESIGNED FOR SENSORY TRAINING CUSTOMIZATION-READY
AND MULTIROLE
MISSION PLATFORM



SINCE 1968, THE AERO L-39 ALBATROS HAS BECOME A GLOBALLY SUCCESSFUL TRAINING AND MULTIROLE PLATFORM, WITH ALMOST 3,000 AIRCRAFT DELIVERED AND STILL IN USE BY MANY CUSTOMERS ALL OVER THE WORLD

TODAY, THE L-39 SKYFOX CONTINUES THIS LEGACY, FEATURING A SIGNIFICANTLY IMPROVED DESIGN, CUTTING-EDGE MATERIALS AND TECHNOLOGIES, WHILE RETAINING THE EXCEPTIONAL FLIGHT CHARACTERISTICS OF ITS PREDECESSOR



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L-39 Skyfox

MODERN AVIONICS

- ► 2x2 multi-function large screen displays
- ► Synthetic vision PFD with Highway In The Sky (HITS)
- ► Performance based approach (compliant approach using RNP/LPV)
- ► HOTAS flight control concept
- ► Head-up display with repeater in the rear cockpit
- ▶ Segregated flight critical data and mission/tactical training data
- ▶ Optional Electronic Standby Instrument System (ESIS)

TECHNICAL FEATURES

- ▶ 5 hardpoints 4 underwing and 1 under the center fuselage
- ► Eastern or Western type of symbology and cockpit layout
- ► Exceptional visibility from the cockpit
- ▶ Built-in test for ground support for fast turnaround time
- ▶ Display symbology adaptable for similarity with selected fighter
- ► Wet wings with integrated fuel tanks
- ► Martin Baker MK16 CZ16H with 0-0 capability
- ► Highly maneuverable, extended playtime
- ▶ 4 underwing and 1 center pylons
- ➤ Service life up to 15,000 FH
- ► Payload up to 1,540 kg

EFFICIENT PROPULSION

- ➤ Williams FJ44-4M turbofan engine, ITAR free, with millions of flight hours in its lineage
- ▶ Battery-started
- ► Easy line-in maintenance and long major periodic Interval (800 hrs)
- ► Pre-paid maintenance program
- ▶ Low fuel consumption, low noise and heat signature
- ► High acceleration and reaction

TRAINING FEATURES

- Ground Based Training System (GBTS)
- Mission Planning and Debriefing System (MPDS)
- ► Integrated Training System (ITS)
- Embedded Virtual Training System (EVTS)
- ► Live, Virtual, Constructive (LVC) capability

MISSION FEATURES

- Weapons integration
- ► Encrypted communication
- ► EO/IR with laser designator
- ▶ NVG capable
- DACAS training pod
- ► Flexible for tactical pod integration

TRAINING CAPABILITIES:

- ► Covers full spectrum of training from basic training to lead-in fighter training
- ► Airmanship habits for 4th-5th generation fighters Seamless transition through system similarity
- ► Air-to-Air combat scenarios
- ► Air-to-Ground combat scenarios
- ▶ DACAS and ISR training scenarios
- ► Efficient training with VTS scenarios as:
- Constructive air and ground threats
- Dissimilar Air Combat Training (DACT)
- Low level intercept training
- 2v1 defensive/offensive maneuvers up to 2v2
 WVR/BVR intercept

TACTICAL AND MULTIROLE CAPABILITIES

- ► Air-to-Air and Air-to-Ground mission capabilities with:
- Unguided bombs, rockets and gun pods
- Precise guided bombs and missiles
- ► Intelligence-Surveillance-Reconnaissance (ISR) missions with EO/IR sensors as
- Border patrolling
- Maritime surveillance
- Anti-piracy, anti-smuggling
- ▶ Digitally-Aided Close Air Support (DACAS)
- ► Counter-insurgency operations

BASIC & ADVANCED TRAINING AIRCRAFT



TACTICAL AND MULTIROLE AIRCRAFT



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COCKPIT

L-39 Skyrox



PERFORMANCE DATA Empty weight 3,280 kg Max. take-off weight 5,600 kg Max. payload 1,540 kg ► Internal fuel tank capacity 1,150 kg External fuel tank capacity 570 kg Number of hardpoints ▶ Max. airframe service life 15,000 FH Max. speed/ Mach 490 KIAS/ M.8 +8g/-4g ▶ Max. g-load ► Max. range/clean/ext. tanks 1060/1350 NM ► Max. endurance /clean 3h 45m ► Max. endurance /with external fuel tanks 4h 50m



FULL GLASS COCKPIT

- ► HOTAS throttle grip & control stick
- Head-Up Display (HUD) in the front cockpit with repeater in the rear cockpit
- ➤ 2 multifunction displays (MFD/PFD)
- Universal management unit (UMU)
- ► Electronic Standby Instrument System (ESIS) backup instrument system

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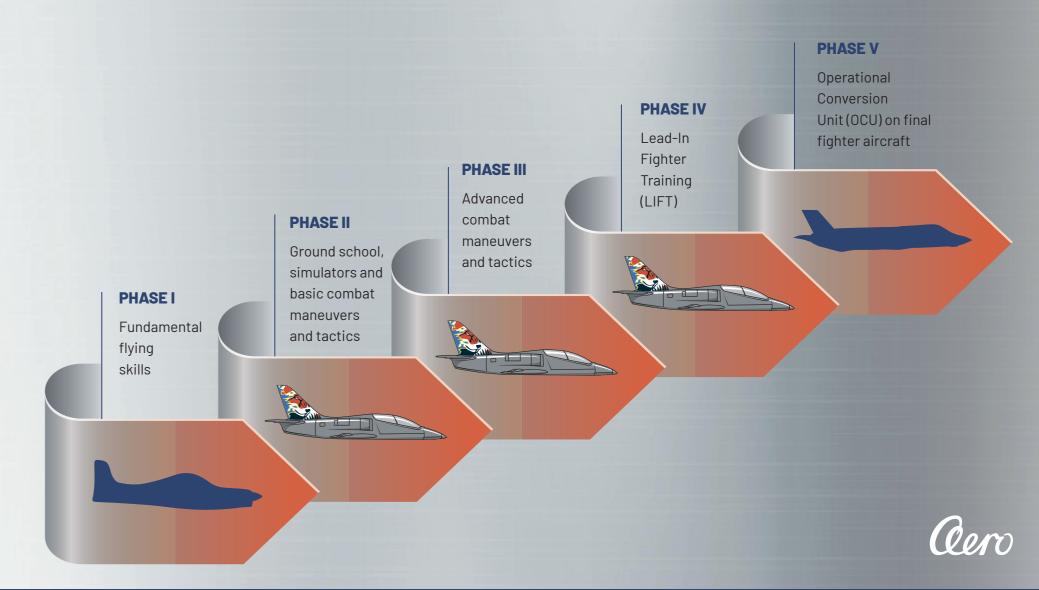




COCKPIT PROCEDURE TRAINER (CPT)

FULL MISSION SIMULATOR (FMS)

THE L-39 SKYFOX ENABLES AIR FORCES TO TRAIN CADET PILOTS EFFECTIVELY AND EXTREMELY COST-EFFICIENTLY, USING ONLY TWO TRAINING PLATFORMS BEFORE TRANSITIONING TO COMBAT TRAINING AT THE OPERATIONAL CONVERSION UNIT









INTEGRATED TRAINING SYSTEM

A comprehensive training solution designed to prepare pilots and aircrew for operating advanced aircraft which combines real aircraft training with ground based simulation to create a cost-effective and efficient training environment

- Configured for Live, Virtual, and Constructive (LVC) combat drill
- ► Embedded Training System:
- Virtual Training System (VTS)
- Synthetic radar
- Tactical map
- ► Simulated Training System:
- Air-to-Air gun
- Air-to-Ground gun, bombs, rockets
- ► Ground Based Training System (GBTS):
- Computer Based Training (CBT)
- Desk-Top Trainer (DTT)
- Cockpit Procedure Trainer (CPT)
- Full Mission Simulator (FMS)
- Mission Planning and Debriefing System (MPDS)
- Learning Management System (LMS)



KEY ADVANTAGES:

- ► Extremely cost-effective training solution
- ▶ Simulated weapons delivery
- Enhanced safety
- ► Reduces training restrictions
- Adaptive training system
- ▶ Distributed simulation training
- Expanded training area

VTS CORE COMPONENTS:

- ► Tactical Situation Display (TSD)
- Virtual Radar Display (VRD)
- Data link

VTS OPTIONAL UPGRADES:

- ► Real time ground stations
- ► Virtual Stores Management System (SMS)
- ► Virtual Radar Warning Receiver (RWR)

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L-39 Sky Fox

EXAMPLES OF WESTERN PAYLOADS



EXAMPLES OF EASTERN PAYLOADS

EFT 350 I	GP bombs OFAB-100-250-270	Practice bombs P-50-75	Rocket launchers UB-16-57UMP (Rockets S-5)	Gun pod (12.7 mm)



PYLON NO.	5	4	3	2	1
Maximum weight of carried load [kg]	295	400	150	400	295
PERMISSIBLE EXTERNAL STORES FOR "WESTER	N" LIGHT A	ATTACK CONF	IGURATIONS:		
Rocket launchers (7 and 19 tubes) with 70 mm rockets	•	•	-	•	•
GP bombs MK 81	•	•	-	•	•
GP bombs MK 82	-	•	-	•	-
BDU-33 with bomb dispenser	•	•	-	•	•
Gun pod (12.7 mm) (max 3 pcs on aircraft)	•	•	•	•	•
External fuel tanks (EFT)	-	•	-	•	-

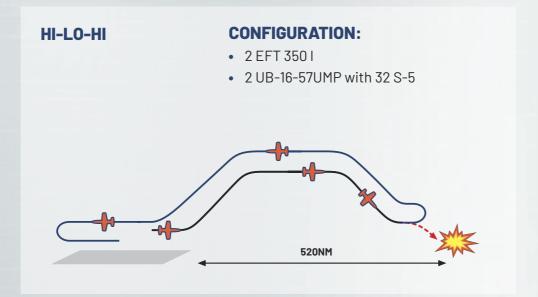
Note: • Possible stores combinations.

• Future capability growth options include Infrared-guided Air-to-Air missiles, EO/IR sensors, IFF systems and encrypted radio communication — all available upon customer request and developed in close cooperation.

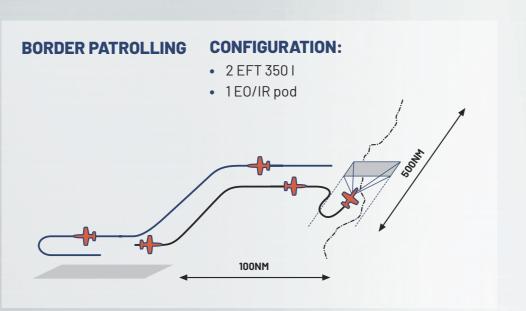








CLOSE AIR SUPPORT (CAS) • 2 Rocket launcher 14x70 mm • 2 MK82 • 1 gun pod 12.7 mm with 250 rounds





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NEW SUPPORT MODEL DRIVING HIGHER AIRCRAFT AVAILABILITY AND LOWER OPERATING COST

Skycare is a next-generation customer support program designed to maximize fleet availability and and to ensure that military operators can focus on what matters the most — mission performance. Through comprehensive integrated logistics support and maintenance services provided on a pay-by-the-hour basis. Skycare redefines sustainment and delivers complete predictability of operational costs for the L-39 Skyfox fleet. With Skycare, Aero can guarantee over 85% fleet availability for the next 40+ years.

SKYCARE PROGRAM PILLARS:

- ▶ Integrated logistics support covering scheduled and unscheduled maintenance of the L-39 Skyfox aircraft and all its subsystems
- ► Comprehensive engineering and field service support provided by Aero specialists
- ▶ Dedicated, digitally enabled customer care concept







L-39 MODERNIZATION & SUPPORT





and many more all over the world



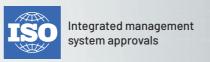




















AERO CERTIFICATIONS

- ► Flight training organization
- Approved training organization

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