



תעודת סוג - תוספת  
SUPPLEMENTAL TYPE CERTIFICATE No. SA234

This certificate issued to

תעודה זו ניתנה ל-

Elbit System EW and SIGINT – Elisra Ltd.  
48 Mivtza Kadash St. Bene Beraq,  
Israel, 51203

certifies that the change in the type design  
for the following product with the limitations  
and conditions as thereof specified herein meets the  
requirements of ANR - Air Navigation Regulations-  
(Certification Procedure for Aircraft & Parts).

מאשרת שהשינוי בתכנון הסוג של המוצר  
דלהלן במגבלות ובתנאים המבצעיים  
כמפורט להלן ממלא אחר דרישות של  
תקנות הטיס (נהלי תיעוד כלי טיס וחלקיהם).

FAR 25

Original product – FAA TC No. A16WE / CAAI TC No.IL029 מוצר המקורי - תעודת סוג מס'

Make The Boeing Company תוצרת

Model B737-700IGW דגם

Description of Type Design Change : Installation of PAWS System "Keeper" תאור השינוי בתכנון הסוג :

- "Keeper" is a protection suite against Infra Red (IR) guided surface to air missiles,
- This STC covers the use of Inert Cartridges LACROIX LIR 120GP CIV only. The use of different kind of flares should be certified under separate STC.

Limitations and Conditions (See Reverse Side) מגבלות ותנאים:

This certificate and the supporting data which is the  
basis for approval shall remain in effect until  
surrendered, suspended, revoked, or a termination  
date is otherwise established by the  
Director General, Civil Aviation Authority.

תעודה זו ונתוני הביסוס המהווים בסיס לאישור יהיו  
בתוקף עד ביטולם, התליתם, השעיתם או עד  
פקיעת תוקפם כפי שנקבע על יד  
ראש רשות התעופה האזרחית.

Former Date of application : 07/04/2010 תאריך הגשת הבקשה :

Former Date of issuance: 01/12/2011 תאריך הוצאת התעודה :

New Issue Date: (Note 1) 01/05/2013 תאריך שינוי התעודה :

By the direction of the Director General  
Civil Aviation Authority.

בהתאם להוראת  
ראש רשות התעופה האזרחית.  
חתימה :

Signed :

Tamir Bar-Am



Manager, Engineering Branch

תואר :

Title:





תעודת סוג - תוספת  
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(Continuation Sheet)

**Certification Basis:**

Based on ANR - (Certification Procedure for Aircraft & Parts) Para.39 through 41 (similar to 14 CFR, Part 21, Subpart E) and set forth in Israeli CAAI Airworthiness Dept.- Aircraft Certification Evaluation Procedure No. 4.1.29 (similar to FAA Order 8100.4 & FAA Order 8110.48 "CPR"), the certification basis for Boeing Model 737-700BBJ aircraft granted with CAAI STC "PAWS System KEEPER." is as follows:

- For structure and parts not changed or not affected by the change the certification basis is based on Type Certification basis for Boeing Model 737-700IGW BBJ series airplanes is shown on TCDS A16WE.
- For structure and parts affected by this change the certification basis is Part 25 as amended by Amendment No. 25-129 as detailed in SGD Document No.: 1005-900-010 " Compliance Check List"

**Approved Master Document List:**

This list presents the CAAI approved Design Data for this STC.

Doc. No.	Rev.	Title
1005-900-001	A	Aerodynamic Analysis
1005-900-002	H	Stress & Loads Analysis
1005-900-003	B	W & B Analysis
1005-900-004	New	Master Drawing List
1005-900-005	New	Ice Accretion Analysis
1005-900-007	New	Electrical Load Analysis
1005-900-008	B	Trajectory Analysis
1005-900-010	A	Compliance Check List
1005-900-012	New	LRU Qualification Report
1005-900-013	B	Ground Clearance Assessment
1005-900-015	C	Flight Test Results
1005-900-017	A	Functional Hazard Assessment
1005-900-019	New	Keeper System PAWS Program PSSA
1005-900-020	A	Flight Test Plan
1005-900-024	New	Ditching Analysis
1005-910-501	New	AMM Supplement
1005-910-502	A	Boeing 737-Keeper Self Protection System IPC
1005-910-503	New	AFM Supplement
1005-910-504	New	Wiring Diagram Manual
1005-910-505	New	Weight & Balance Manual Supplement
1391H000D024	New	Operational Manual Supplement



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תקנות הטיס (נהלי תיעוד כלי טיס וחלקיהם).

**FAR 25**

Original product –

**FAA TC No. A16WE / CAAI TC No.IL029**

מוצר המקורי - תעודת סוג מס'

Make

**The Boeing Company**

תוצרת

Model

**B737-700IGW**

דגם

Description of Type Design Change :

**Installation of PAWS System  
"Keeper"**

תאור השינוי בתכן הסוג :

- "Keeper" is a protection suite against Infra Red (IR) guided surface to air missiles,
- This STC covers the use of Inert Cartridges LACROIX LIR 120GP CIV only. The use of different kind of flares should be certified under separate STC.

Limitations and Conditions

(See Reverse Side)

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בתוקף עד ביטולם, התליתם, השעתם או עד  
פקיעת תוקפם כפי שנקבע על יד  
ראש רשות התעופה האזרחית.

Former Date of application :

**07/04/2010**

תאריך הגשת הבקשה :

Former Date of issuance:

**01/12/2011**

תאריך הוצאת התעודה :

New Issue Date: (Note 1)

**01/05/2013**

תאריך שינוי התעודה :

By the direction of the Director General  
Civil Aviation Authority.

בהתאם להוראת  
ראש רשות התעופה האזרחית.

Signed :

**Tamir Bar-Am**

חותם :



Title:

**Manager, Engineering Branch**

תואר:



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(Continuation Sheet)

**Limitations and conditions:**

**STC Compatibility**

- The design approved under this STC is compatible with the 737-700 IGW type design and FAA approved modifications as follows:
  - DASIG Project DAS-GED-P010: *Interior Completion*,
  - STC ST00405LA-D: *Smoke detection and fire suppression system*,
  - STC ST00830SE: *Winglets*,
  - STC ST00936NY: *6 tank auxiliary fuel system (2fwd/4 aft)*
- Compatibility of "KEEPER" modification with other designs or modifications must be determined by the user and installer of the approved data.

**Operation Limitations:**

- See CAAI Approved Airplane Flight Manual Supplement, SGD Doc No. 1005-910-503.

**Weight & Balance Limitations:**

- See CAAI Approved Weight & Balance Manual Supplement, SGD Doc. No. 1005-910-505. "KEEPER" modified weight and CG position are based on the previous FAA approved modifications as follows:
  - DASIG Project DAS-GED-P010: *Interior Completion*,
  - STC ST00405LA-D: *Smoke detection and fire suppression system*,
  - STC ST00830SE: *Winglets*,
  - STC ST00936NY: *6 tank auxiliary fuel system (2fwd/4 aft)*

**Special Conditions:**

- None

**Equivalent Safety Finding:**

- None

**Exemption:**

- None

**Notes:**

1. A request has been received by CAAI for transfer of this STC. In accordance with the applicable CAAI regulations and SGD-ELISRA agreement dated 02/04/2013 the STC was transferred to ELISRA on 01/05/2013. Upon acceptance of the transfer ELISRA has recognized all the responsibilities of the STC holder.

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