

AirFilm Camera System
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Supplement No. AFDP-005

**FAA/EASA APPROVED
ROTORCRAFT FLIGHT MANUAL
SUPPLEMENT
TO THE
EUROCOPTER AS 350 & AS 355 SERIES
ROTORCRAFT FLIGHT MANUAL
WHEN EQUIPPED WITH THE
AFDP-1 DOWN POST UTILITY
BRACKET**

REGISTRATION #: _____ SERIAL #: _____

The information in this supplement is FAA/EASA approved and must be attached to the appropriate FAA Approved Eurocopter Model AS 350 & AS 355 Series Rotorcraft Flight Manual when the Airfilm Model AFDP-1 Down Post Utility Bracket is installed in accordance with:

**STC No. SR 01784 LA
EASA.IM.R.S. 01158**

The information contained in this document supplements or supersedes the basic manual only in those areas listed herein. For limitations, emergency procedures, normal procedures, and performance information not contained in this supplement, consult the basic FAA Approved Rotorcraft Flight Manual.


FAA APPROVED Patrick Power

Manager, Flight Test Branch, ANM-160L
Federal Aviation Administration
Los Angeles Aircraft Certification Office
Transport Airplane Directorate


FAA DATE: July 13, 2006


Original Approval Date: 9 May 2005

LOG OF REVISIONS

Rev	Pg	Date	Description	FAA Approval
N/C	1-6	9 May 2005	Original Issue	 <hr/> <p>Manager, Flight Test Branch ANM160L FAA, LA ACO Transport Airplane Directorate</p> <p>Date: <u>May 9, 2005</u></p>

LOG OF REVISIONS

Rev	Pg	Date	Description	FAA Approval
A	1-6	13 July 2006	Added EASA Number to cvr & all pages.	 <hr/> Manager, Flight Test Branch ANM160L FAA, LA ACO Transport Airplane Directorate Date: <u>July 13, 2006</u>
	2,3		Added "typical" to pictures	
	4		Added pilot limitation	

Rev	Pg	Date	Description	FAA Approval
B	4	6 April 2009	Added max diameter to align with the STC	 <hr/> Manager, Flight Test Branch ANM160L FAA, LA ACO Transport Airplane Directorate Date: <u>April 6, 2009</u>

LOG OF REVISIONS

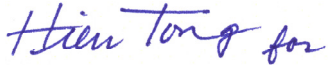
Rev	Pg	Date	Description	FAA Approval
C	1-6	8 Jul 2011	Added dual down post Added picture Revised Weights & CG Repaginated	 <hr/> <p>Manager, Flight Test Branch ANM160L FAA, LA ACO Transport Airplane Directorate</p> <p>Date: <u>7/8/2011</u></p>

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SECTION I GENERAL

The Airfilm AFDP-1 Down Post Utility Bracket consists of a solid aluminum post that attaches to the left, right or both lateral beam at the hammer weight attachment point of the aircraft.

This post structure will accommodate camera, light or sensor type payloads not to exceed a total combine weight of 122 pounds.



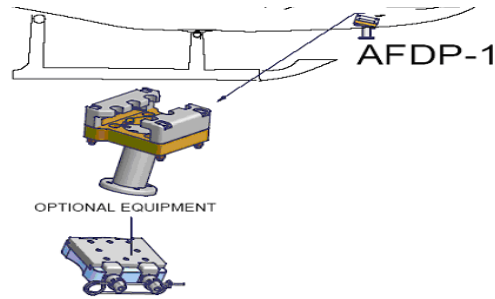
Figure 1. Post Bracket with FLIR Star Safire III (Typical) – Front View



Figure 2. Single Post Bracket with FLIR Ultra 8000 (Typical) - Left Side View



Figure 3. Dual Post Bracket with simulated load & NightSun



Installation

Figure 4. Post Bracket and Optional "DoveTail"

The payload may be installed and removed by the pilot when the payload uses the “dovetail” mount. This optional mount requires no tools for the installation of the payload.

SECTION 2 LIMITATIONS

Operations

- The pilot is prohibited from operating the camera. light or sensor system.

Weight & Size

- The camera package is limited to:
 - Single down post mount, either left or right side:
Weight = 122 lbs
Maximum Frontal Area = 2.0 square feet
 - Dual down post mount –Combined:
Weight= 122 lbs
Maximum Frontal area= 2.5 square feet

Airspeed

- Reduce the published V_{NE} by 15 KIAS with a payload installed on the mount.
- No airspeed reduction when the Post Mount/s only are installed.

Placard

REDUCE PUBLISHED V_{NE} BY 15 KIAS WITH
A DOWN POST PAYLOAD INSTALLED

SECTION 3 EMERGENCY PROCEDURES

No change

SECTION 4 NORMAL PROCEDURES

External Inspection

Prior to the first flight each day the pilot shall visually inspect the following:

- All attachment points for cracks or damage and hardware for security.

SECTION 5 PERFORMANCE

- Hover performance - no change
- Climb performance
 - Reduce the Rate of Climb – 100 ft/min with load attached

SECTION 6 WEIGHT & BALANCE

The Maximum Down Post Payload center of gravity is:

- Longitudinal CG = 40.4 in
- Lateral CG = -21 left, +21 right

See Section 2 for Weight & Size Limits