

Airfilm Camera Systems
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Supplement AF 145-207

FAA/EASA APPROVED
ROTORCRAFT FLIGHT MANUAL SUPPLEMENT
TO THE EUROCOPTER MODEL
EC145
EASA APPROVED ROTORCRAFT FLIGHT MANUAL
when equipped with
AIRFILM EC145 STEP UTILITY MOUNT


REGISTRATION # _____ SERIAL # _____

This supplement must be attached to the EASA Approved Rotorcraft Flight Manual when the rotorcraft is modified by the installation of the Airfilm Step Utility Mount in accordance with

STC No. SR02137LA

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

FAA Approved _____

acting 

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

FAA Approved Date 9 MAY 2008

RECORD OF REVISIONS


Rev.	Page	Date	Description	FAA Approval
N/C	Cvr i 1-6	9 May 2008	Step Utility Mount	 <hr/> <i>acting</i> Mgr., Flight Test Br., ANM-160L FAA, Los Angeles ACO, Transport Airplane Directorate Date: <u>9 MAY 2008</u>

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SECTION I GENERAL

Airfilm Camera System's Step Utility Mount is designed to mount on the left or right side of the Eurocopter EC-145 helicopters.

The AFM-SM117-1 Step Utility Mount is mounted on landing gear of the Eurocopter EC145 Helicopter. It is similar to the current Eurocopter design and attaches to the landing gear struts using the same mounting locations as the Eurocopter step installation.

The step can accommodate various cameras / FLIR sensors / searchlights or microwave downlink type payloads.

The payloads attach to the ends of the step mount using different attach arms.



Figure 1 Camera and Light – Right Side (Typical)



Figure 2 Sensor and Light – Left & Right Front (Typical)

SECTION II LIMITATIONS

Type of Operation

Catagory "A" operations are prohibited with any payload attached to the step utility mount arms.

Operations with arms only, no payloads attached to the steps are authorized.

Airspeed Limitations

Step Utility Mount with Arms and loads on any 2 attach points:

- No change from basic flight manual

Step Utility Mount with Arms and loads on more than 2 attach points:

- Reduce published V_{NE} by 10 KIAS.

Weight and Size

The sensor/cameras/lights are limited by the values shown in section VI.

The flight crews are authorized to remove and install sensor/camera/light if the installation uses the DT series dovetail or QDD series quick disconnect.

SX-16 Searchlight (if installed)

The SX-16 light is to be switched off when the aircraft is operating below 50 feet AGL to preclude possible ignitions of flammable materials.

SECTION III EMERGENCY & MALFUNCTION PROCEDURES

SX-16 Searchlight (if installed) with Floats

CAUTION

SX-16 LIGHT SHOULD BE SWITCHED OFF BEFORE
INFLATING THE FLOATS FOR AN EMERGENCY
LANDING ON WATER

SECTION IV NORMAL PROCEDURES

Preflight Checks

Exterior Checks

- Check the steps and payloads for general condition and proper security.
- Check the “Safety Pins” at the attach points for security

SX-16 Searchlight (if installed)

WARNING

- AVOID HANDLING THE SEARCH LIGHT IMMEDIATELY AFTER USE.
- SWITCHING THE SX-16 “ON” WHILE ON THE GROUND MAY IGNITE FLAMMABLE MATERIALS. AVOID STATIONARY FOCUS AT OBJECTS WHILE ON THE GROUND.
- BRIEF EXPOSURE TO THE LIGHT BEAM AT CLOSE RANGES COULD CAUSE SERIOUS EYE DAMAGE.
- THE SX-16 IR BEAM (FILTER) IS INVISIBLE AND POTENTIALLY DANGEROUS TO THE EYES AND SKIN AT DISTANCES LESS THAN 500 FEET (139M). DO NOT OPERATE THE SX-16 LIGHT WITH IFCO IR LENS ON THE GROUND WITHOUT A CLEAR AREA.

SECTION V PERFORMANCE DATA

Rate of Climb

All rates of climb results obtained from the respective basic Flight Manual, section 5, are to be corrected as follows:

- Subtract 120 fpm for any 2 sensor/camera/payloads
- Subtract 190 fpm for more than 2 sensor/camera/payloads.

SECTION VI WEIGHT & BALANCE DATA

The longitudinal and lateral attach point locations are given for weight & balance calculation.

LOCATION	Max Mass (kg) (lbs)	Max Area (m ²) (ft ²)	Longitudinal (mm) (in)	Lateral (mm) (in)
Fwd Payload				
A10 Arm	56.7 125	0.2 2.1	2329 91.7	
A11 Arm	56.7 125	0.2 2.1	2329 91.7	± 1016 L / R ± 40.0 L / R
C10 Arm	56.7 125	0.2 2.1	2451 96.5	
C11 Arm	45.4 100	0.2 2.1	2329 91.7	
Aft Payload				
A10 Arm	56.7 125	0.2 2.1	5812 228.8	
A11 Arm	56.7 125	0.2 2.1	5812 228.8	± 1016 L / R ± 40.0 L / R
C10 Arm	56.7 125	0.2 2.1	5687 223.9	
C11 Arm	45.4 100	0.2 2.1	5812 228.8	