

Airfilm Camera Systems  
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Supplement RFMS135-007

**FAA/EASA APPROVED**  
**ROTORCRAFT FLIGHT MANUAL SUPPLEMENT**  
**TO THE EUROCOPTER MODEL**  
**EC135**  
**EASA APPROVED ROTORCRAFT FLIGHT MANUAL**  
**when equipped with**  
**AIRFILM EC135 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. SR02138LA**

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

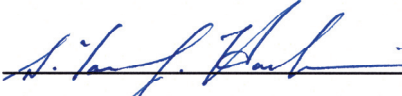


Manager, Flight Test Branch, ANM-160L  
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### RECORD OF REVISIONS

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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-135 helicopters.

The AFM-SM135-1 Step Utility Mount is mounted on landing gear of the Eurocopter EC135 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 – Left Side (Typical)**



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

## **SECTION II LIMITATIONS**

### **Type of Operation**

Category “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 <sup>2</sup> ) (ft <sup>2</sup> )	Longitudinal (mm) (in)	Lateral (mm) (in)
Fwd Payload				
A10 Arm	56.7 125	0.2 2.1	1854.2 73.0	
A11 Arm	56.7 125	0.2 2.1	1854.2 73.0	± 1003 L / R ± 39.5 L / R
C10 Arm	56.7 125	0.2 2.1	1994.0 78.5	
C11 Arm	45.4 100	0.2 2.1	1854.2 73.0	
Aft Payload				
A10 Arm	56.7 125	0.2 2.1	5370 211.4	
A11 Arm	56.7 125	0.2 2.1	5370 211.4	± 1003 L / R ± 39.5 L / R
C10 Arm	56.7 125	0.2 2.1	5232 206.0	
C11 Arm	45.4 100	0.2 2.1	5370 211.4	