

AirFilm Camera System
Rotorcraft Supplement to
6245 Aerodrome Way
Georgetown, CA 95634

Supplement No. AFM-130-207

**FAA APPROVED
ROTORCRAFT FLIGHT MANUAL SUPPLEMENT
TO THE
AIRBUS HELICOPTERS EC130 SERIES
WHEN EQUIPPED WITH THE
AFM-130 UTILITY MOUNT**

Aircraft Serial Number: _____ Aircraft Reg. Number: _____

This supplement must be attached to the FAA Approved Rotorcraft Flight Manual, when the aircraft is modified by the installation of the Airfilm Model AFM-130 Utility Mount in accordance with:

STC No. SR02695LA

The information contained herein 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 Rotorcraft Flight Manual.

FAA Approved _____
Manager, West Flight Test Section, AIR-716
Federal Aviation Administration
Los Angeles, CA

Date: 6 March 2019

Supplement No. AFM-130-207

LOG OF REVISIONS


Rev	Pg	Date	Description	FAA Approval
N/C	1-6	06 March 2019	Complete Supplement - AFM-130 Utility Mount	 _____ Manager, West Flight Test Section, AIR-716 Federal Aviation Administration Los Angeles, CA Date: <u>6 March 2019</u>

TABLE OF CONTENTS

Section	Page
SECTION I GENERAL	1
SECTION 2 LIMITATIONS.....	2
SECTION 3 EMERGENCY PROCEDURES	2
SECTION 4 NORMAL PROCEDURES.....	3
SECTION 5 PERFORMANCE.....	4
SECTION 6 WEIGHT & BALANCE	5

TABLE OF FIGURES

Figure	Page
FIGURE 1 – AFM-130 UTILITY MOUNT, LEFT HAND CONFIGURATION SHOWN.....	1
FIGURE 2 – DT-1-1 DOVETAIL.....	1
FIGURE 3 – QDD-1-1 QUICK DISCONNECT	1

SECTION 2 LIMITATIONS

Operations

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

Weight & Size

- The camera/sensor package is limited to a maximum allowable frontal area of 2.5 sq. ft., and a weight of 135 lbs.

Airspeed

- Reduce the published V_{NE} by 13 KIAS with a payload installed on the mount.
- No airspeed reduction with the AFM-130 Utility Mount only installed (i.e., no payload).

Placards

Reduce published V_{NE} by 13 KIAS with a payload on the AFM-130 Mount if installed

SECTION 3 EMERGENCY PROCEDURES

No change from the basic Rotorcraft Flight Manual.

SECTION 4 NORMAL PROCEDURES

4.2 PREFLIGHT CHECK

4.2.1 EXTERNAL CHECK

Station 1

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

- All AFM-130 Utility Mount hardware and attachment points for cracks, damage and security.
- All AFM-30 Utility Mount payloads and attachment points for damage and security.

4.4 TAKEOFF

4.4.1 BEFORE TAKEOFF CHECK

CAUTION

If an AFM-130 Utility Mount is installed, approximately 50% of the illumination of either the landing or taxi light will be blocked by the mount depending on the side the mount is installed.

4.7 APPROACH AND LANDING

4.7.1 APPROACH CHECK

CAUTION

If an AFM-130 Utility Mount is installed, approximately 50% of the illumination of either the landing or taxi light will be blocked by the mount depending on the side the mount is installed.

SECTION 5 PERFORMANCE

- Hover performance - no change
- Climb performance – Reduce predicted published climb performance by 200 ft/min when payload is installed on the AFM-130 Utility Mount.

SECTION 6 WEIGHT & BALANCE

The AFM-130 Utility Mount Weight and CG Stations

AFM-130 UTILITY MOUNT FORWARD LONG ARM (AFM-130-1) CONFIGURATION WEIGHT & STATIONS						
FOR CAMERA/SENSOR SYSTEMS EC130 B4 & T2 HELICOPTERS	WEIGHT		LONGITUDINAL ARM		LATERAL ARM	
Item Description	(kg)	(lbs)	(m)	(in)	(m)	(in)
Payload (Camera/Sensor System) (Max. 150 lbs)*			0.03	1.34	LEFT -0.81 RIGHT +0.81	LEFT -31.94 RIGHT +31.94
Main Arm Beam Assembly (AFM-130-10)	22.72	50.10	1.70	67.02	LEFT -0.38 RIGHT +0.38	LEFT -14.85 RIGHT +14.85
Long Arm Attachment (AFSP-V2-2-1)	4.64	10.23	0.26	10.23	LEFT -0.75 RIGHT +0.75	LEFT -29.63 RIGHT +29.63
Quick Disconnect Device (Select one of the following)						
<input type="checkbox"/> DT-1-1 Dovetail	1.1	2.4	0.03	1.34	LEFT -0.81 RIGHT +0.81	LEFT -31.94 RIGHT +31.94
<input type="checkbox"/> QDD-1-1 Quick Disconnect	2.3	5.0	0.03	1.34	LEFT -0.81 RIGHT +0.81	LEFT -31.94 RIGHT +31.94
*Use actual weight of installed equipment						

AFM-130 UTILITY MOUNT FORWARD SHORT ARM (AFM-130-3) CONFIGURATION WEIGHT & STATIONS						
FOR CAMERA/SENSOR SYSTEMS EC130 B4 & T2 HELICOPTERS	WEIGHT		LONGITUDINAL ARM		LATERAL ARM	
Item Description	(kg)	(lbs)	(m)	(in)	(m)	(in)
Payload (Camera/Sensor System) (Max. 150 lbs)*			0.13	5.17	LEFT -0.79 RIGHT +0.79	LEFT -30.94 RIGHT +30.94
Main Arm Beam Assembly (AFM-130-10)	22.72	50.10	1.70	67.02	LEFT -0.38 RIGHT +0.38	LEFT -14.85 RIGHT +14.85
Short Arm Attachment (AFSP-V2-3-1)	3.76	8.30	0.30	11.86	LEFT -0.74 RIGHT +0.74	LEFT -29.20 RIGHT +29.20
Quick Disconnect Device (Select one of the following)						
<input type="checkbox"/> DT-1-1 Dovetail	1.1	2.4	0.13	5.17	LEFT -0.79 RIGHT +0.79	LEFT -30.94 RIGHT +30.94
<input type="checkbox"/> QDD-1-1 Quick Disconnect	2.3	5.0	0.13	5.17	LEFT -0.79 RIGHT +0.79	LEFT -30.94 RIGHT +30.94
*Use actual weight of installed equipment						