Airfilm Camera Systems
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Supplement No. AFM-NM429-005

# FAA APPROVED
# ROTORCRAFT FLIGHT MANUAL
# SUPPLEMENT
## FOR THE
# BELL HELICOPTER MODEL
# B-429
## WHEN EQUIPPED WITH THE
# AFM-NM429-1 NOSE UTILITY MOUNT

REGISTRATION #: _____ SERIAL #: _____

The information in this supplement is FAA approved material and must be attached to the FAA Approved Bell 429 Rotorcraft Flight Manual when the rotorcraft has been modified by the installation of Airfilm AFM-NM429 Nose Utility Mount System in accordance with:

STC # SR02377LA

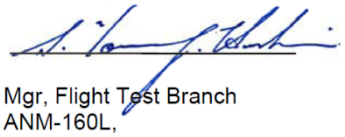
The information contained herein supplements or supersedes the information in the basic Rotorcraft Flight Manual only in those areas listed herein. For Limitations, Procedures and Performance information not contained in this Supplement, consult the basic Rotorcraft Flight Manual.

FAA APPROVED: Nevada Jo Ryan Digitally signed by Nevada Jo Ryan Date: 2020.05.08 12:23:23 -07'00'

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

FAA APPROVED DATE: 05/08/2020

# LOG OF PAGES

| Rev No. | Pg No. | Date | Description of Change | FAA Approved |
|---|---|---|---|---|
| N/C | 1-4 | 17 Oct 2011 | Initial Release |  <br>Mgr, Flight Test Branch<br>ANM-160L,<br>FAA, Los Angeles ACO,<br>Transport Airplane Directorate<br><br>DATE: Oct. 17, 2011 |
| A | 1-5 | 05/08/2020 | Added Light Kit Reference to General Information, Updated Payload Weight and Frontal Area | Nevada Jo Ryan<br>Digitally signed by Nevada Jo Ryan<br>Date: 2020.05.08 12:22:50 -07'00'<br><br>Manager, West Flight Test Section, AIR-716<br>Federal Aviation Administration<br>Los Angeles, CA<br><br>DATE: 05/08/2020 |

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## GENERAL INFORMATION

The mount is designed to facilitate the attachment of equipment such as searchlights, FLIR cameras, video cameras, microwave downlinks, etc. The Nose Utility attaches to the forward fuselage, overlapping existing front landing light located at FS 80.80-106.25. There are two individual and separate mounting locations, one fore and one aft on the mount.

The nose mount has cut out for the landing light to allow standard landing light operations. When payloads are installed on the forward mounting location, the light is not to be used for standard flight operations. Flight operations for which a landing light is required and a payload is installed on the forward mounting location, a light kit (AFM-NM429LK-1) needs to be installed. Reference STC No. SR02452LA for information regarding the optional Light Kit.

Searchlight/camera/sensor payloads are attached to various available payload arms either direct or with the use of DT-1 (dovetail), QDD-1 (quick disconnect) or other factory approved adaptor hardware configurations.

The mount is approved for VFR, IFR and Category “A” operations

**Figure 1. Typical Payload - Forward Mount**

# SECTION 1 – LIMITATIONS

## OPERATION

- The camera, sensor, light package at the forward, aft or combine locations is limited to a maximum allowable frontal area of 2.64 sq. ft. and a weight of 135 lbs.

- Minimum ground clearance of installed payload = 6 inches

### LANDING LIGHT

- If the mounted camera, sensor, light obscure the landing light beam or produces reflection in the cockpit and alternate landing light sources are not installed the landing light will be considered inoperative**.**

**NOTE**

**Check operational rules for landing light requirements.**

## SECTION 2 – NORMAL PROCEDURES

### PREFLIGHT

- External Inspection. Prior to the first flight each day the pilot shall visually inspect the following:
  - All attachment points and hardware for security.
  - Support structure for signs of stress, distortion, fatigue cracks or damage.

## SECTION 3 – EMERGENCY PROCEDURES

No change from the basic Rotorcraft Flight Manual.

## SECTION 4 - PERFORMANCE

No change from the basic Rotorcraft Flight Manual.

## SECTION 5 – WEIGHT & BALANCE

| DESCRIPTION | STATION (in) | BL (in) |
|---|---|---|
| FORWARD Payload Attach Point | 86.6 | 0.0 |
| AFT Payload Attach Point | 102.25 | 0.0 |

**CAUTION**

The longitudinal CG can be easily exceeded with a payload attached.
Check weight & balance with a payload attached