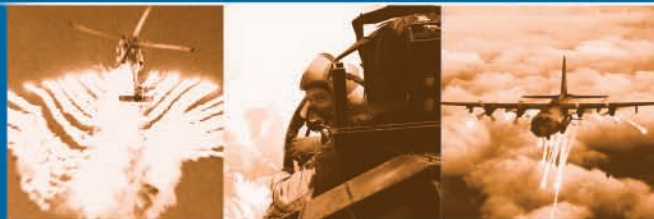


# FLARE & CHAFF

## COUNTERMEASURES



ARMTEC®  
Products  
for Military  
Aircraft



# RESEARCH & DEVELOPMENT



*Esterline Defense Group is a world leader in expendable decoy development and systems analysis. Computer simulations are used to predict flare performance and system effectiveness. Performance prediction tools include chemical combustion, intensity, spectra and trajectory modeling. Missile engagement models include MOSAIC and GTSIMS IR engagement simulators.*



# Infrared Decoy FLARES



## Advanced Flares

- Latest generation flares to combat advanced threats
- 2" x 2.5" MJU-47/B (kinematic) and 1" x 2" MJU-48/B (two part companion) advanced decoy set (in production)
- MJU-59/B spectrally tailored 1" x 2" flare (ARM-011)
- 1" x 1" Compact Kinematic Decoy (ARM-024)



## 36mm Round Flares

- Helicopter and Aircraft Protection
- MJU-32/B and ARM-002 used on helicopters, transports and P-3C aircraft
- MJU-38/B and ARM-001 used on tactical aircraft





### 1" x 1" Flares

- Helicopter and Aircraft Protection
- M206 (USAF and Army cartridge)
- ARM-003 available with SI Ignition System



### 1" x 2" Flares

- Aircraft Protection
- MJU-7A/B (USAF cartridge)
- ARM-004 available with improved ignition reliability and option for bore safe and/or sealed flare
- MJU-53/B sealed flare



# Radar Countermeasure CHAFF



## RR-170A/AL

- 1" x 1" Form Factor
- Helicopter and Aircraft Protection
- USAF Tactical Cartridge
- RR-188/AL training version



## RR-180/AL Dual

- 1" x 1" Form Factor
- Helicopter and Aircraft Protection
- USAF Tactical Cartridge
- Provides two payloads
- BBU-48/B impulse cartridge allows independent payload dispensing
- Each payload provides breaklock equivalent to RR-170A/AL



## RR-129A/AL & RR-129/AL

- 36mm Round Form Factor
- Helicopter and Aircraft Protection
- USN Tactical Cartridge
- Identical performance, different impulse cartridges
- RR-144A/AL and RR-144/AL training versions



## RR-179/AL Bundle Chaff

- Aluminum coated glass filament in a continuous strand
- Used in ALE-43 chaff dispenser
- ALE-43 chaff cutting blades are adjusted to achieve desired frequencies
- Training for air defense radar operators
- Bundle weights are 40 or 60 lbs.

# INFRARED DECOY FLARES

Esterline Defense Group is the world's foremost producer of infrared (IR) decoy flares that protect aircraft from heat-seeking missiles. Our U.S. and U.K. locations house Research and Development, Test and IR Flare Production facilities.

These facilities produce a wide assortment of flares to suit a variety of applications for helicopter, fighter and transport platforms. Our flares can be tailored to address the needs of unique operational environments.



## RADAR COUNTERMEASURE CHAFF

Esterline Defense Group is the sole qualified producer of chaff in the United States. Our North Carolina chaff facility is the largest fully-integrated production operation in the world, including fiberizing and metalizing of raw glass, cutting and loading dipoles to the desired frequency and packing of the finished product.

We produce nearly one million pounds of chaff and integrate over two million chaff cartridges annually. Our chaff products offer high reliability, multiple broadband frequency protection, excellent operational radar cross section and a rapid bloom with minimal birds-nesting. Variations of products are available to suit user requirements.





**ISO CERTIFIED**

Esterline Defense Group  
offers a full complement  
of IR Decoy Flares and  
Radar Countermeasure  
Chaff compatible with  
both Navy and Air Force  
dispensing systems.

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