



Systems & Projects

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# CAFDS

Chaff And Flare Dispensing System

 **NIRON**  
Systems & Projects

# CAFDS

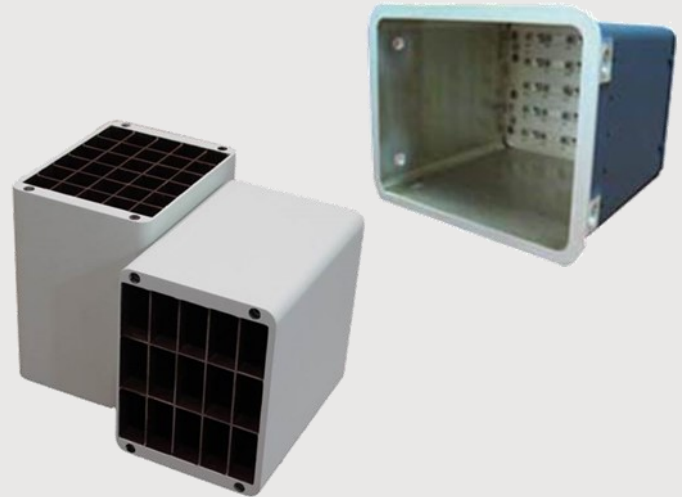
## Chaff And Flare Dispensing System

In today's increasing hostile environment, there is little doubt that utility helicopters and other light aerial platforms need to increase their survivability while meeting mission demands. For added protection in the asymmetrical warfare arena, the self-defense suits should include passive countermeasures capabilities, fend off attacks.

Niron System & Projects offers an advanced Chaff and Flare Dispensing System—the CAFDS.

The system provides the aircraft with protection from air-to-air and surface-to-air radar and heat-seeking missiles.

The CAFDS enhances the aircraft survivability and ensures mission completion, while supporting current and future needs, with low weight and at affordable cost.



### CAFDS System Features

- ◆ Selection of dispensing mode: Automatic, Semi-Automatic, Manual, Escape & Jettison.
- ◆ Misfire detection and correction.
- ◆ User programming tools (no LRU dismounting required).
- ◆ Integration capabilities with various EW sensors and systems.
- ◆ NVG compatibility.

### Safety Features

- ◆ Control and monitors safe firing of payloads.
- ◆ Management of power supply to the magazines.
- ◆ Separate discrete for emergency jettison capabilities for the dispensers.
- ◆ Prevention of unintentional firing on ground.

### Technical Specification

- ◆ Environmental Qualification .....MIL-STD-810F
- ◆ EMI/RFI .....MIL-STD-461F
- ◆ Useful service life.....Over 20 years

### CAFDS Operational Features

- ◆ Standalone Chaff and Flare Dispensing System for helicopters and fixed-wing aircraft, Western and Eastern platforms.
- ◆ Open architecture modular solution, from a cost effective DCU controller SDU Smart Dispensing Units, and up to highly upgradeable MAC Avionics Computer including Multifunction Display and DDU units.
- ◆ Interfaces to various EW sensors and systems (such as MWS, RWR, etc.).
- ◆ Extensive growth potential when using the MAC, eg:
  - ◇ New types of chaff / flares.
  - ◇ Full integration with Armament Control System (RGAS).
  - ◇ Observation system interface and display.
- ◆ Significant reduction of pilot workload.
- ◆ MIL-STD-1553B Mux-Bus or RS-422 serial communication for Intra System Interface.
- ◆ Extensive Built In Test (BIT) capabilities.



# CAFDS

## Chaff And Flare Dispensing System

Characteristic	Performance
Interfaces	RS-422, MIL-STD-1553, LAN and Discretes
Electrical Input	28V per MIL-STD-704A
NVG Support	Per MIL-STD-3009 NVIS class B
<b>Environmental (MIL-STD-810F)</b>	<ul style="list-style-type: none"> <li>◆ Temperature: Operating: - 30°C to + 55°C, Non-operating : - 40°C to + 71°C</li> <li>◆ Altitude: Operating: up to 45000 ft. Non Operating: up to 50000 ft.</li> <li>◆ Humidity: 98% @ +35°C</li> <li>◆ Mechanical shock (operation): 20g for duration of 11±1ms, (Crash safety) at 40G</li> <li>◆ Acceleration</li> <li>◆ Explosive atmosphere</li> <li>◆ Gun fire</li> <li>◆ Random vibrations</li> <li>◆ Sand and Dust, Salt Atmosphere, Fungus</li> <li>◆ Rain: Water jets</li> </ul>
<b>EMI/RFI (MIL-STD-461E)</b>	<ul style="list-style-type: none"> <li>◆ CE102, CS101, CS114, CS115, CS116</li> <li>◆ RE102, RS101, RS103</li> </ul>
<b>Reliability (prediction)</b>	5,000 hours at 35°C
<b>Dimension</b>	Dispenser - 10.5" X 6.25" X 4.5"      MAC - 6.5" X 5.75" X 5"
<b>Weight</b>	Dispenser - 6lb      MAC - 5lb

AN:30-09178187

### About Niron Systems & Projects

Niron Systems & Projects is a recognized provider of sophisticated technological solutions for defense and Homeland Security applications. With many years of accumulated experience backing a strong command of the most advanced modern technologies, company's engineers specialize in the development and production of integrated solutions for a variety of manned and unmanned airborne, ground and surface naval platforms. These include control systems for weapon delivery and chaff & flare Dispensing Systems: mission and communication computers: display and switching units; hardware and software solutions for real-time systems. The company also provides unique turnkey project management and ongoing customer support services for non-standard technological programs requiring close professional accompaniment.

Niron Systems & Projects is certified to: ISO 9001:2015 and ISO90003:2014

### About Astronautics

Astronautics C.A Ltd. is a leading supplier of defense and aerospace electronics, with a strong reputation for innovative and highly quality, reliable products and solutions. Our solutions include Military integrated cockpit avionics systems, Civil-Certified Glass cockpit Avionics, Air data systems, Embedded-cyber protected systems, Engine data units, Automated Artillery Fire Control Systems, Artillery Battle Management Systems, Naval military navigation solutions, Cyber for maritime systems, Anti spoofing GPS solutions.

Astronautics C.A Ltd. Is certified to: AS9100D, ISO 9001:2015.



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