



RGAS

Rockets & Guns Armament System



RGAS

Rockets & Guns Armament System

In today's increasing hostile environment, even utility helicopters and light aircraft platforms need security enhancements to improve survivability and ensure mission completion. In the asymmetric warfare arena that evolved in recent years, any self-defense solution should include offensive capabilities, to deter and repel enemy attacks.

A good offensive Self-defense system must provide guaranteed performance and operational readiness, while keeping operating and maintenance tasks to a minimum. In addition, the system should provide for continuous implementation of innovative process and hardware improvements.

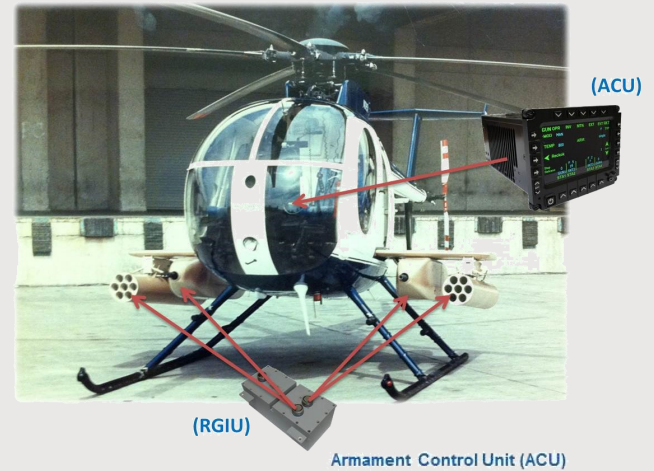
Niron Systems and Projects offers an advanced system—the RGAS—an affordable and low weight solution supporting current and future needs.

RGAS Operational Features

- ◆ Standalone Rockets and Guns control system for all eastern and western helicopters and fix wing aircraft.
- ◆ Open architecture with:
 - ◇ Armament Control Unit (ACU).
 - ◇ Multi-Function-Color-Display (MFCD).
 - ◇ Rockets and Guns Interface Unit (RGIU).
- ◆ Growth potential of software and hardware interfaces with same connector:
 - ◇ New types of weapons.
 - ◇ Chaff & Flare dispensing control.
 - ◇ Display images from observation system.
- ◆ Significantly reduce aircrew work load.
- ◆ MIL-STD-1553B or RS-422 serial communication for intra-system interface.
- ◆ Built-In-Test (BIT)

System Function

- ◆ Station selection.
- ◆ Weapon selection.
- ◆ Weapon type.
- ◆ Burst & Interval for rocket fire.
- ◆ Guns bullet counter and limiter.
- ◆ Real-time inventory update.



Safety Features

- ◆ The RGAS complies with weapon safety requirements.
- ◆ Control and monitors safe firing of rockets and guns.
- ◆ Management of power supply to the stores.
- ◆ Separate discrete for emergency jettison capability.
- ◆ Prevention of unintentional firing on ground.

System Description

ACU

Leading edge digital computer controlling mission application, I/O, Video, Voice and Graphics processing.

RGIU

Rockets and Guns Interface Unit, enabling full functionality control. Interface with the ACU digitally.

RGAS

Rockets & Guns Armament System



RGAS

Rockets & Guns Armament System

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

AN: 30-09178245

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.

Contact us

Niron—Mailing address: P.O. Box 8546, Netania 4250407, Israel Tel: +972 9 7407626, Fax: +972 9 8651510. E-mail: niron.marketing@niron-sys.com , www.niron-sys.com

Astronautics—Mailing address: P.O.B. 3351 Petah-Tikva 4951207 Israel , Tel: +972-3-9251555 Fax: 972-3-9251550 E-mail:marketing@astro.co.il, www.astro.co.il