



OCU

Operator Control Unit



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In today's hostile environment, there is little doubt that ground vehicles platforms need improvements to increase survivability and meet mission demands. In the asymmetrical arena which has evolved in recent years, the Remote Controlled Weapon Stations is providing effective observation, target tracking capability, and employment of highly accurate firepower from within the platform, ensuring crew survivability and deterring and eliminating hostile attacks.

Niron Systems and Projects offers a "state of the art" Operator Control Unit system – the OCU, an affordable and low weight solution supporting current and future needs.

OCU Operational Features

- ◆ The OCU is a Multi-Function-Display with a Grip, which allows the soldier in the vehicle to operate armament systems remotely within the vehicle and not to be exposed
- ◆ The user interface is software based, thus allowing maximum flexibility
- ◆ The OCU ICD contains:
 - RS-422 and CAN-BUS serial communications
 - Ethernet switch

OCU Safety Features

- ◆ The OCU complies with weapon safety requirements
- ◆ Control and monitors safe firing of armament
- ◆ Special push button for system emergency cutoff
- ◆ Prevention of unintentional firing



OCU Environment and EMI/RFI Features

- ◆ Environment — According to MIL-STD-810F
- ◆ EMI/RFI— According to MIL-STD-461E
- ◆ Power Characteristics— MIL-STD-1275B

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 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 9001:2008 and ISO90003:2004

Contact us

Address: 2nd Hamelacha st. , Netania 4250537, Israel

Tel: +972 9 7407626,

Fax: +972 9 8651510.

E-mail: niron.marketing@niron-sys.com

www.niron-sys.com

Characteristic	Performance
Display area (mm)	6.5" Diagonal - 132 (H) x 99 (V) / 8.4" Diagonal - 170 (H) x 127 (V) 10.4" Diagonal - 210 (H) x 157 (V) / 12.1" Diagonal - 245 (H) x 184 (V) 15" Diagonal - 304 (H) x 228 (V)
Number of Dots (Resolution)	XGA 1024 x 768
Brightness	6.5" - 1300 (cd/m2) / 8.4" - 1000 (cd/m2) 10.4" - 1000 (cd/m2) / 12.1" - 1300 (cd/m2) 15" - 1500 (cd/m2)
Number of Color	16.7M
Viewing Envelope	6.5" -80° to 80° (H), -60° to 80° (V) / 8.4" -80° to 80° (H), -60° to 80° (V) 10.4" -80° to 80° (H), -65° to 65° (V) / 12.1" -80° to 80° (H), -80° to 80° (V) 15" -80° to 80° (H), -80° to 60° (V)
Contrast Ratio	700:1
Backlight	LED
Display Panel	Multi layer Anti reflective
Touch Screen	5 wire Glass Film Glass (GFG) (Option)
Interfaces	2 x RS-422, 2 x LAN (1 X MAC) and 8 x I/O Discretets
Surround Push Button	For system operation and special switches for safety and emergency cutoff
Electrical Input	24V per MIL-STD-704A / 1275B
Growth Capabilities	Internal GPS, CAN-BUS, Different Video Formats: DVI, RS-170A PAL/NTSC and more, Video Out, Picture In Picture (PIP), Interface to external GRIP, Video recording and playback.
Environmental (MIL-STD-810F)	<ul style="list-style-type: none"> ◆ Operating Temperature: - 30°C to + 65°C (- 40°C to + 65°C with heater) ◆ Storage Temperature: - 40°C to + 85°C ◆ Altitude: Operating - Up to 45000 feet. Non Operating - up to 50000 feet ◆ Humidity: 98% @ +35°C ◆ Mechanical shock (operation): 20g for duration of 11±1ms ◆ Mechanical shock (Crash safety) at 40G ◆ Acceleration, Gun fire, Random vibrations ◆ Explosive atmosphere ◆ Sand and Dust, Salt Atmosphere, Fungus ◆ Rain: Water jets
EMI/RFI (MIL-STD-461E)	CE102, CS101, CS114, CS115, CS116, RE102, RS101, RS103
Reliability (prediction)	10,000 hours at 35°C
Dimension (L x W X H inch.)	6.5" - 10" X 9" X 5" / 8.4" - 12" X 10" X 5" / 10.4" - 13.5" X 11" X 5" 12.1" - 13.5" X 11" X 5" / 15" - 17.5" X 14" X 5"
Weight	6.5" - 10lb.10.4" / 8.4" - 12lb. / 10.4" - 14lb. / 12.1" - 14lb. / 15" - 18lb.