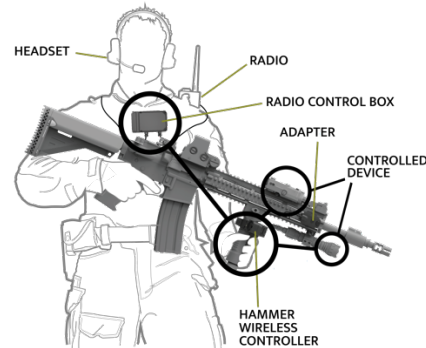




## RACU HAMMER RIFLE ACCESSORY CONTROL UNIT (RACU) SYSTEM



The RACU Hammer System consists of a finger/thumb operated Controller (the Hammer) attached to a GPS Grip-POD foregrip on the weapon, and a Radio Control Box (RCB) and cable assembly worn on the body. The Hammer sends commands either by cable or wirelessly to weapon-mounted and body-worn electronic devices.

Wireless control on the weapon is enabled by the use of a Bluetooth Low Energy (BLE) Adapter. It provides operators with a fast (instinctive) and simple way of operating the key functions of their devices without the need to take either eyes off the target or hands off the weapon, thus maintaining situational awareness.

### ➤ TECHNICAL SPECIFICATIONS

#### SIZE

Controller: (Hammer)	4.33" x 3.36" x 2.95" (length x width x height)
Radio Control Box: (RCB)	3.94" x 2.36" x 1.38"
BLE adapter:	1.97" x 1.38" x 0.79"

#### WEIGHT

Controller:	4.48oz – including battery (on the weapon)
RCB:	9.35oz – including battery and body worn cable assembly
BLE adapter:	1.23oz – including battery, cable and connector
Total: ca. 15oz (427g)	
<b>Net: ca. 3.1oz (88.4g)</b>	

#### POWER

Controller:	1 x CR123A (lithium) (field replaceable)
RCB:	1 x CR123A (lithium) (field replaceable)
BLE adapter:	1 x CR2032

#### BATTERY LIFE

(all figures assume above 32°F operating conditions and for a 'typical cycle'\*)

Controller:	>1 year (typical cycle)
RCB:	>2 weeks (typical cycle)
BLE adapter:	>6 months+ (typical cycle)

**MATERIAL / FINISH**

External casing: glass filled nylon 66  
 Switches: silicon over-moulded  
 Color: matt black, non-reflective

**ERGONOMICS**

- Designed to fit foregrip: two thumb and three finger switches
- Operated with standard issue gloves
- Left or right handed operation
- Over-moulded switches with tactile feedback

**OPERATION**

- Wired or wireless
- Single or multiple presses (chords)
- Programmable/configurable via PC User Interface
- Eyes-free operation
- Normal device controls can still be used
- Training conducted using Smartphone or PC-based software

**EXTERNAL INTERFACES**

Weapon-mounted: 2 x switched loads; RS232  
 Body-worn: SPI  
 Two wire Bus (I<sup>2</sup>C compatible)  
 USB

**ENVIRONMENTAL**

Internal Protection: IP68

**TEMPERATURE**

Operating: -22°F to +125.6°F  
 Storage: -32°F to +158°F  
 Humidity: 95% non-condensing  
 Thermal: MIL-STD-810G Method 505.5  
 Shock: 5ft onto hard packed earth  
 Vibration: MIL-STD-810G Method 514.6  
 Altitude: -437yd to +4998yd  
 Immersion: Operable – 3.2ft (1m) for 2hrs

Chemical and fluid resistant

**CIRCUITRY**

Low power re-programmable micro-controller  
 Built-in self-test and diagnostics  
 Boot time: 3s

**TRANSMISSION CHARACTERISTICS**

Radiated power: 200μW  
 Connection rate: 10Hz  
 Tx time: 1-3ms  
 Data transfer latency: 1-100ms  
 Data throughput: 2kb/s  
 Range (freespace): 66ft

Australia/NZ: AS/NZS CISPR22:2009 (B)  
 AS/NZS 61000.6.3:2007 (B)  
 North America: FCC Part 15  
 Europe: CISPR22:2009

**OPERATING VOLTAGE**

Vcc 1.8 – 3.3V

**ELECTROSTATIC DISCHARGE**

Operable: 50V/m from 2 MHz to 18 GHz

**CONNECTION TO DEVICES**

Weapon mounted: BLE to adapter (cabled from adapter) or fully cabled (no adapter)  
 Body worn: BLE to RCB or cabled via an Intelligent Sling

**ATTACHMENT**

Design: Screw clamp for controller /adapters Velcro/ MOLLE Strap for RCB  
 Compatibility: MIL-STD-1913 picatinny rail or STANAG 4694 NATO rail

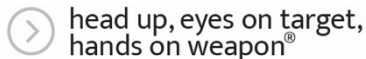
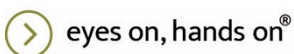
**CONNECTORS**

Fischer Mini-max series

**ACCESSORIES**

Data Logging Module  
 User Configuration Package  
 Computer Training and Competency Testing Software

\*A 'typical cycle' is defined as 1x command/minute/slave for 12hrs/day with a system comprising an Adapter and RCB (two slaves).



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