

# BEAM™ 3.0

## Mono Backpackable Electronic Attack Module (M-BEAM)



CACI's BEAM™ 3.0 is a modular, low size, weight, and power (SWaP), electronic attack system capable of detecting, identifying, locating, and direction finding (DF) the most sophisticated modern small unmanned aerial systems (sUAS) and associated communication devices. BEAM 3.0 surveys the environment to enable the operator to detect and defeat adversary sUAS, range extenders, cellular communications, push-to-talk radios, WiFi, Mode-S/ADS-B, Bluetooth, and digital or analog video signals. BEAM 3.0 can be operated independently or multiple BEAM systems operating in proximity create a self-forming network, remotely controlled from a single operator, increasing detection and mitigation range and capabilities.

### Capabilities

- BEAM 3.0 is configurable as a dismounted (man-portable), mobile (on-the-move), maritime, static or airborne solution
- Self-healing, mobile ad hoc network (MANet) automatically adapts to disconnected, degraded, intermittent, and/or limited bandwidth environments
- Open modular architecture enables rapid development of new capabilities, interoperability with other sensors, and layered C-UAS defense
- DF capabilities provide improved granularity of signal detection and location across the environment
- Extensive drone library, capable of internals exploitation, enables exquisite defeat techniques for drone mitigation

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## M-BEAM: Versatile C-sUAS/EA System

### Performance

- A single BEAM 3.0 can defeat a wide bandwidth signal with its instantaneous 200 MHz transmit bandwidth
- Allows local control by mission operators or via remote C2 networks
- Beam can connect via a mesh network to operate autonomously, deliver distributed attacks, and provide rapid, responsive force protection capability in hostile environments
- Designed for use in rugged, tactical environments for dismounted and on-the-move missions
- User-friendly design for speed of deployment and ease of use
- User interface (ATAK) allows enhanced situational awareness of drone and operator location
- Extensive drone library, capable of internal exploitation, enables exquisite defeat techniques for drone mitigation

### Specifications

- **Detection range:** 30 MHz - 6 GHz, up to 10 km (protocol dependent)
- **Defeat range:** 30 MHz - 6 GHz, up to 3 km (protocol dependent)
- **DF array frequency range:** 20 MHz to 6 GHz
- **Transmit Power:** 5-15 watts (frequency dependent)
- **Dimensions:** 10.5" (H) x 8.5" (W) x 4" (D)
- **Weight:** 11 lbs (13 lbs with antennas)
- **User interface:** Android Tactical Assault Kit (ATAK)
- **Software upgrades/updates:** Remote upgrades for threat library updates software, and algorithm improvements
- **Receivers:** 4-channel phase coherent (2 independent) software-defined radio
- **Transmit channels:** 1x combined RF output channel, capable of 2 simultaneous TX
- **Power source:** BB-2590 batteries or AC/DC power supply
- **Endurance:** 5.5+ hours on 2x BB-2590 batteries, based on mission and other conditions, batteries can be independently swapped to sustain operations
- **Environmental:** IP67 standard
- **Operating temperatures:** -4°F to 131°F (-20°C to 55°C)
- **On-board:** FPGA, GPS Receiver, and Wi-Fi

*Specifications subject to change*

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