

Common Remotely Operated Weapon Station

The Common Remotely Operated Weapon Station (CROWS) provides Soldiers with the ability to acquire and engage targets while inside a vehicle, protected by its armor. It is designed to mount on a variety of vehicle platforms and supports the MK19 Grenade Machine Gun, .50 Caliber M2 Machine Gun, M240B Machine Gun, and M249 Squad Automatic Weapon.

CROWS is a two-axis stabilized mount that contains a sensor suite and fire control software, allowing on-the-move target acquisition and first-burst target engagement. The CROWS sensor suite includes a daytime video camera, second-generation forward looking infrared (FLIR), and laser rangefinder, enabling target engagement under day and night conditions.

CROWS allows the Soldier to view a target independent of gun elevation. Its manual/emergency backup operation capability offers improved firing stability over the current pintle mount.

More than 200 systems have been fielded to support Operation Iraqi Freedom (OIF). Potential enhancements include integration of other weapons and counter-sniper sensors.



Performance Characteristics

- Integrates with multiple platforms; tested on M1114 UA HMMWV, M93 Fox NBC Reconnaissance Vehicle, M1A2, RG31

- **Ammunition ready round capacity:** MK19-96, M2-500, M240-1000/M249-1200

- Can be integrated with any armored vehicle

- **Traverse:** Continuous 360 degrees

- **Elevation:** -20 degrees to 60 degrees

- **Traverse/Elevation rate:** 90 degrees/60 degrees per second

- Laser rangefinder and fire control software allow on-the-move target acquisition

- Lead/lag compensation for improved first-burst target engagement while moving

- Programmable target reference points for multiple location

- Programmable sector surveillance scanning

- Programmable no-fire zones

System Description

- **Weight:** 430 lbs (without weapon, ammo, and ballistic protection)

- **Height:** Less than 28 inches operational, less than 18 inches folded

- **Environmental Readiness:** E3, rain, salt spray, sand, and dust hardened

- **Day Optics:** 1-25 degree continuous field of view

- **FLIR:** Cooled FPA 3.6 degrees and 11 degrees field of view



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