

BAE SYSTEMS

Providing unmatched, combat-proven aircraft survivability to U.S. and allied forces for more than 15 years

AN/AAR-57 CMWS Common missile warning system

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Common missile warning system (CMWS)

BAE Systems' AN/AAR-57 Common Missile Warning System provides advanced missile warning and hostile fire detection for rotary- and fixed-wing aircraft. The system uses electro-optic missile sensors (EOMS) paired with an electronic control unit (ECU) to quickly respond to current and evolving threats in any situation. Designed to automatically detect a wide range of missile and hostile fire threats, CMWS gives the pilot and aircrew the confidence to complete the mission.



Proven and adaptable missile warning for rotary- and fixed-wing aircraft

Total system protection

Today's aircraft require an adaptable and expandable missile warning system that supports both expendables and directable laser-based countermeasures to ensure mission success now and into the future. BAE Systems delivers the answer to these threats, pairing the AN/AAR-57 CMWS with AN/ALE-47 countermeasures dispensing system (CMDS), Smart D², and the OT-255 ATIRCM directed infrared countermeasures system. With these combined systems, aircraft are equipped with the most advanced threat warning and countermeasures package available in the world.

Combat proven

Fielded in over 17 countries, more than 3,000 CMWS units have been delivered and installed on over 40 different platforms and variants. Fielded by the U.S. Army since 2005, CMWS has logged approximately 4 million combat theater flight hours, saving dozens of aircraft and hundreds of lives in an ever-changing threat environment.

Increased capabilities

The most recently developed, third-generation CMWS technology integrates hostile fire indication with missile warning into a single system. This enables high performance in complex missile, small arms, and rocket propelled grenade scenarios. Recent Juliet software updates provide Common Infrared Countermeasures (CIRCM) interfaces and aircraft survivability equipment bus controller functionality. This enables decluttered and combined cockpit interfaces including angle of arrival and weapon steering cues.

Specifications	Electronic control unit (ECU)	Electro-optic missile sensors (EOMS)
Size	9.1 in. width 5.5 in. height 10.7 in. depth	5.3 in. depth (flange) 4.75 in. depth (body) 4.3 in. length
Weight	19 lb.	2.75 lb.
Power (400Hz)	350 W	Powered by ECU
Power (28 Vdc)	111 W (5 EOMS)	N/A



Installed on over 40 different platforms supporting U.S. and allied forces

Fixed-wing		Rotary-wing	
767-200	RC-12Q	AH-64A/D	Lynx MK 7/8/9
B300	SD3-60	AH-64 E	Puma
C-12R/U/V	UC-35A/B/D	CH-47D/F	Sea King MK 4/7
C-23B+	Defender	HH-60L	Wildcat
C-26	DSH-8 300	UH-60A/L	Merlin MK1
F-15SA	Harrier	HH/UH-60M	WAH-47
RC-12N	King Air 200	HH-60W	AW-101
RC-12P	King Air 350	OH-58D	AW-159
RC-12K	Tornado GR4	S-70	

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