

WEAPONS CONTROL & TARGETING SYSTEMS

DESIGNATION	DESCRIPTION	APPLICATIONS	REMARKS
BAE SYSTEMS, Avionics, Basildon, Essex, England, UK			
105H	Laser rangefinder	Hawk	—
BAE SYSTEMS, Avionics, Edinburgh, Scotland, UK			
TIALD	Thermal imaging & TV, airborne laser designator	Harrier, Jaguar, Tornado	—
BAE SYSTEMS, BAE Systems Integrated Defense Solutions, Austin, TX, USA			
Anvis Eyepiece-HUD	HUD for helmet-mounted night vision goggles	HH-60G	—
Improved HUD	Night vision goggle HUD	CH-47F, MH-47E, MH-60, UH-60M	Current US Army standard mission equipment.
CMC ELECTRONICS, Kanata, Ontario, Canada			
AIU 6358-140	Armament unit interface	Westland Super Lynx 300	Fixed- and rotary-wing aircraft.
ELBIT SYSTEMS LTD., Haifa, Israel			
SMS-86	Stores management system	F-4, F-5, F-16	For fighters, trainers, helicopters, transports.
ELBIT SYSTEMS LTD., ElOp ElectroOptic Industries Ltd., Rehovot, Israel			
AMPS	Advanced multisensor payload system	King Air B200	For long-range target intelligence-gathering.
Compass	Compact, multipurpose, EO, advanced, stabilized system	Bell 212, Cheetah, Panther	Other helos, UAVs. Night/day scanning, tracking, aiming, targeting.
ELTA SYSTEMS LTD., Ashdod, Israel			
EL/M-2080	"Green Pine" radar	"Arrow" anti-ballistic missile weapon system	Multimission phased array radar.
EL/M-2106NG	Point defense radar	Surface-to-Air missile weapon system	3-Dimensional (3D).
EL/M-2238	Multifunction air defense radar	Shipborne weapon systems	Planar array radar.
EL/M-2248	Multifunction air defense radar	Shipborne weapon systems	Phased array radar.
Nautilus	Air defense radar	Tactical high-energy laser weapon system	For interception of Katyusha rockets.
GENERAL DYNAMICS UK, Hastings, East Sussex, England, UK			
SMS Air Defense	Stores safe carriage and release system	Tornado	—
SMS Fighter/Attack	Stores safe carriage and release system	Eurofighter	With Eurofighter partners.
SMS Helicopter	Stores safe carriage and release system	EH 101	—
SMS Maritime	Stores safe carriage and release system	P-3C, S-3B	—
SMS Missile Control	Stores safe carriage and release system	Mirage 3	—
SMS Trainer/Light Attack	Stores safe carriage and release system	Hawk 50/60, Hawk 100/200	—
GENERAL DYNAMICS, General Dynamics Advanced Information Systems, Bloomington, MN, USA			
Advanced Missile Interface Box	Provides pre- and post-launch control of SLAM-ER, Maverick missiles	P-3, S-3	Applicable to various platforms.
Digital Stores Management System	Provides scalable MIL-STD-1760 weapons management for MSA aircraft. SLAM-ER, Harpoon, J-Weapons capable	P-3	Open system architecture, plug-and-play capable.
HARRIS CORP., Government Communications Systems Div., Palm Bay, FL, USA			
AWDL	Advanced weapon datalink	SLAM-ER	Command/video link.
KOLLSMAN INC., Merrimack, NH, USA			
Night Targeting System	Flir/TV/laser targeting	AH-1W	In production.
NTSU(V)	Flir/laser targeting	AH-1	Advanced night targeting system.
SELRD	Switchable eyesafe laser rangefinder and target designator	AH-64, AH-64D, OH-58D	—
L-3 WESCAM, West Burlington, Ontario, Canada			
MX-15	Imaging turret	Police AS335; US Coast Guard HU-25C; US Customs Cheyenne, Citation, Dash-8; US Navy P-3; UK Nimrod; Vigilante UAV	IR with zoom, color daylight camera with zoom lens, color or mono daylight camera with spotter lens, laser illuminator, laser rangefinder.
MX-15D	Imaging turret	UAVs & rotor-wing targeting systems	IR with zoom, color daylight camera with zoom lens.
MX-20	Imaging turret	US Coast Guard HC-130H; US Marine Corp. AH-1 Cobra; US Navy P-3C AIMS	IR with zoom, color daylight camera with zoom lens, color or mono daylight camera with spotter lens, laser illuminator, laser rangefinder.

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LOCKHEED MARTIN, Missiles and Fire Control-Orlando, Orlando, FL, USA			
—	TADS electronic display and control (Tedac)	AH-64	—
ABL IRSS	Airborne laser infrared sensor system	747-400F (YAL-1A Airborne Laser)	In development.
AIRST System	Advanced IR search and track	F/A-22	In development.
AN/AAQ-13 & AN/AAQ-14	Lantirn navigation and targeting pods	F-14, F-15E, F-16C/D	Targeting pod upgrade underway.
AN/AAQ-30	Hawkeye target sight system with Flir	AH-1Z	In development.
AN/AAQ-145	Low light level TV	AC-130H	Fielded.
AN/AAS-35(V)	Pave Penny laser tracker	A-10	—
AN/AAS-38	Nite Hawk targeting Flir	F/A-18A/B, C/D	US and international customers.
AN/AAS-42	IR search and track (IRSTS)	F-14D	Passive air-to-air search and track.
AN/ASQ-11 & AN/ASQ-170	Target acquisition designation sight and pilot night vision sensor (TADS/PNVS)	AH-64	US and international customers. Arrowhead upgrades in production to modernize TADS/PNVS.
AN/ASQ-173	Laser detector tracker/strike camera	F/A-18	—
Pantera	EO targeting	Eurofighter, F-15, F-16, F/A-18, JAS 39 Gripen	In production. For international sales.
Sniper XR	EO targeting	A-10, B-1, B-52, F-15E, F-16, F/A-18	In production. For USAF.
Tiger Eyes	EO/IR targeting, navigation	F-15K	In production.
NORTHROP GRUMMAN CORP., Electro-Optical Systems, Garland, TX, USA			
AN/AVS-6(V) 3	Aviator's night vision imaging system	US Army aircraft	Interfaces with HGU-56 and SPH-4/5 series flight helmets.
AN/AVS-9	Aviator's night vision imaging system	US Air Force & Navy aircraft	Interfaces with HGU-55/68/84 series flight helmets.
NORTHROP GRUMMAN CORP., Laser Systems, Apopka, FL, USA			
AN/AAS-38 LTD/R	Laser target designator/ranger	F/A-18	—
DarkStar LD	Laser designator	F-117	—
Lantirn LDR	Laser designator/ranger for Lantirn pod	F-14, F-15E, F-16C/D	In production.
OH-58D Mast-Mounted Sight	Laser designator/rangefinder	OH-58D	—
SH-60 Lamps Mk. 3	Laser designator	SH-60	In production.
TADS LRF/D	Laser rangefinder/designator for target acquisition designation system (TADS)	AH-64	In production.
RAFAEL ARMAMENTS, Haifa, Israel			
Litening	Flir/CCD/laser targeting and navigation pod	A-10, AMX, AV-8B, B-52, EF2000, F-4, F-5, F-16, F-15, F/A-18, Jaguar, JAS 39 Gripen, MIG-21, Mirage 2000, Su-27, Tornado	Upgraded Litening II/ER/AT co-developed with Northrop Grumman.
ReceLite	EO tactical reconnaissance system	Compatible w/all Litening platforms	—
TopLite	Stabilized observation and targeting, multisensor EO system	Bell-412, C-130, PA-31, UH-70 Black Hawk, SA-330	Also maritime platforms.
RAYTHEON CO., Space and Airborne Systems, El Segundo, CA, USA			
AN/AAS-36/37	Flir	OV-10D, P-3, special ops	AN/AAS-37 includes laser designator.
AN/AAS-44(V)	IR sensor, laser designator/rangefinder	HH-60H, SH-60B	Also on RQ-1 (Predator UAV).
AN/AAS-52	IR sensor, laser designator/rangefinder	RQ-1	—
AN/ASQ-213	HARM targeting system	F-16	Block 50 Wild Weasel F-16s.
AN/ASQ-228	Advanced targeting Flir (ATFLIR) 3rd generation pod	F/A-18	In production for US Navy, US Marines.
AN/AXQ-14	Control datalink	B-52, F-15, F-16	For GBU-15/AGM-130 guided weapons.
C-Nite	IR TOW targeting system	AH-1	US ANG AH-1s.
SAGEM, Defence & Security, Paris, France			
Nightowl	Day/night sight	Rootivalk	For helicopters.
Osiris	Day/night sight	Tiger HAC (Fr.) and UHT (Ger.)	For helicopters.
Strix	Day/night sight	Tiger HAP (Fr.) and ARH (Aus.)	For helicopters.
SMITHS GROUP PLC, Smiths Aerospace, Electronic Systems, Grand Rapids, MI, USA			
—	Weapon management system	MH-60, F-14	—
—	Gun control unit	F/A-22	Also various chain gun platforms.
ATRU	Automatic target recognition unit	SLAM-ER	—
Avenger	Air defense system (ADS) radar	NavPAC	US and international.
Short Range ADS	Taiwan short-range ADS	NFM	USMC development program.
SMS	Stores management system	A-129, AH-1, AH-6, AH-64, AV-8B, F/A-18C/D/E/F, Hawk, Japanese PX, JSF, NH90, Nimrod MR.4, P-3, Tornado, US MMA	

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THALES AVIONICS, Bordeaux, France			
T-100	Sighting system	Bell 212, MD 530	—
T-200	Sighting system	Gazelle	—
Top Owl	Helmet-mounted sight and display	NH90, Rooivalk, Tiger	Also on AH-1Z and UH-1Y.
Topsight-E	Helmet-mounted sight and display	Mirage 2000, Rafale	—
THALES OPTRONIQUE, Guyancourt, France			
Atlis 2	Automatic tracking laser illumination system; 1st generation	F-16, Jaguar, Mirage 2000	Thai and Pakistani F-16s. Also for upgraded Super Etendards.
CLDP	Convertible laser designator pod; 2nd generation	AMX, Mirage 2000, Tornado	On UAE Mirage 2000Es, Italian and Saudi Tornados and French Mirage 2000Ds. CLDP-TV has TV sensor; -TC has thermal camera.
Damocles	Day/night multifunction targeting pod; 3rd generation	Mirage 2000, Rafale, Super Etendard	Ordered by UAE for Mirage 2000-9s; French navy for Super Etendard.
TMV 632	Laser spot tracker and rangefinder	MiG-27, Mirage F1, Mirage 2000 Jaguar	Ordered by French and Indian air forces.
TOSHIBA CORP., Tokyo, Japan			
CN-1377/AWG	Lead computing gyro	F-15J	License-built for Japanese F-15s.
<i>Abbreviations: EO—Electro-optical; Flir—Forward-looking infrared.</i>			
END OF TABLE			



The AH-64D Apache Longbow is among rotorcraft equipped with the Kollsman switchable eyesafe laser range finder and target designator.

U.S. ARMY