

HELLFIRE Family of Missiles

INVESTMENT COMPONENT

Modernization

Recapitalization

Maintenance

MISSION

To engage and defeat individual moving or stationary advanced-armor, mechanized or vehicular targets, patrol craft, buildings or bunkers while increasing aircraft survivability.

DESCRIPTION

The HELLFIRE family of munitions, consisting of the AGM-114 A, C, F, K, L, M, N, and P model missiles, provides air-to-ground precision strikes and is designed to defeat individual hard-point targets. The Laser HELLFIRE (HELLFIRE II) comes with either a shaped-charge warhead for defeating armor targets or a penetrating-blast-fragmentation warhead for defeating buildings and bunkers. It uses semi-active laser terminal guidance and is the primary anti-tank armament for the AH-64 Apache, OH-58 Kiowa Warrior, Special Operations aircraft, the Marine Corps' AH-1W Super Cobra Helicopters, and the Army's Sky Warrior Unmanned Aircraft System (UAS).

The Longbow HELLFIRE (L model—no longer in production) uses millimeter wave technology for terminal guidance. The Longbow HELLFIRE ability to engage single or multiple targets directly or indirectly and to fire single, rapid, or ripple (salvo) rounds gives combined arms forces a decisive battlefield advantage.

Laser HELLFIRE (AGM-114K, M, and N models) and Longbow HELLFIRE incorporate many improvements over the basic HELLFIRE missile, including:

- Electro-optical countermeasure hardening
- Software-controlled digital seeker and autopilot electronics to adapt to changing threats and mission requirements
- Increased warhead lethality capable of defeating all projected armor threats into the 21st century

Laser HELLFIRE semi-active laser precision guidance and Longbow HELLFIRE fire-and-forget capability will provide the battlefield commander

with fast battlefield response and flexibility across a wide range of mission scenarios.

Laser HELLFIRE

Diameter: 7 inches

Weight: 100 pounds

Length: 64 inches

Range: 0.50–8.0 kilometers

Longbow HELLFIRE:

Diameter: 7 inches

Weight: 108 pounds

Length: 69.2 inches

Range: 0.50–8.0 kilometers

SYSTEM INTERDEPENDENCIES

None

PROGRAM STATUS

Laser HELLFIRE

- **3QFY08–1QFY09:** 114 N (thermobaric) missiles were delivered to replace missiles expended in the Global War on Terrorism (GWOT).

PROJECTED ACTIVITIES

Laser HELLFIRE

- Continue production

Longbow HELLFIRE

- Continue sustainment activities

ACQUISITION PHASE

Technology Development

Engineering & Manufacturing Development







Production & Deployment

Operations & Support

Family of HELLFIRE Munitions

All Variants

HELLFIRE Family of Missiles

System Description	Production	Characteristics	Performance
AGM-114A, B, C, F, FA – HELLFIRE Weight = 45 kg Length = 163 cm 	1982 – 1992	A, B, C have a Single Shaped-Charge Warhead; Analog Autopilot	<ul style="list-style-type: none"> Not Capable Against Reactive Armor Non-Programmable
		F has Tandem Warheads; Analog Autopilot	<ul style="list-style-type: none"> Reactive Armor Capable Non-Programmable FA adds Blast Frag Sleeve
AGM-114K/K2/K2A – HELLFIRE II Weight = 45 kg Length = 163 cm 	1993 – UTC	<ul style="list-style-type: none"> Tandem Warheads Electronic Safe & Arm Device Digital Autopilot & Electronics Improved Performance Software 	<ul style="list-style-type: none"> Capable Against 21st Century Armor Hardened Against Countermeasures K-2 adds Insensitive Munitions (IM) K-2A adds Blast-Frag Sleeve
AGM-114L – HELLFIRE LONGBOW Weight = 49 kg Length = 180 cm 	1995 – 2005	<ul style="list-style-type: none"> Tandem Warheads Digital Autopilot & Electronics Millimeter-Wave (MMW) Seeker IM Warheads 	<ul style="list-style-type: none"> Initiate on Contact Hardened Against Countermeasures Programmable Software All-Weather
AGM-114M – HELLFIRE II (Blast Frag) Weight = 49 kg Length = 180 cm 	1998 – UTC	<ul style="list-style-type: none"> Blast-Frag Warhead 4 Operating Modes Digital Autopilot & Electronics Delayed-Fuse Capability 	<ul style="list-style-type: none"> For Buildings, Soft-Skin Vehicles Optimized for Low Cloud Ceilings Hardened Against Countermeasures WH Penetrates Target Before Detonation
AGM-114N – HELLFIRE II (MAC) Weight = 49 kg Length = 180 cm 	2003 – UTC	<ul style="list-style-type: none"> Metal-Augmented Charge – Sustained Pressure Wave 4 Operating Modes Delayed-Fuse Capability 	<ul style="list-style-type: none"> For Buildings, Soft-Skin Vehicles Optimized for Low Cloud Ceilings Hardened Against Countermeasures WH Penetrates Target Before Detonation
AGM-114R – HELLFIRE II (for UAS) Weight = 49kg Length = 180cm 	2012 – UTC	<ul style="list-style-type: none"> Multi-Purpose Warhead Designed for UAV and and Rotary Wing 21st Century Armor Capability 	<ul style="list-style-type: none"> Variable Delay Fuze IMU & Improved Software Fully HFII Backward Compatible

FOREIGN MILITARY SALES

Laser HELLFIRE:

Singapore, Israel, Kuwait, Netherlands, Greece, Egypt, Saudi Arabia, Taiwan, Australia, Spain

Direct commercial sale:

United Kingdom

Longbow HELLFIRE:

Singapore, Israel, Kuwait, Japan

Direct commercial sale:

United Kingdom

CONTRACTORS

Lockheed Martin (Troy, AL)

L-3 Communications (Chicago, IL)

Alliant Techsystems (Rocket City, WV)

Moog (Salt Lake City, UT)

Laser HELLFIRE Missile System, guidance section, sensor group:

HELLFIRE LLC (Orlando, FL)

Longbow HELLFIRE:

Longbow LLC (Orlando, FL)

