

# Longbow Hellfire

Engages and defeats individual moving or stationary advanced-armor, mechanized, or vehicular targets while increasing aircraft survivability.



## DESCRIPTION AND SPECIFICATIONS

The Longbow Hellfire missile (L-Model) is an air-to-ground launched, fire-and-forget version of the Hellfire missile that initially uses radar-aided inertial guidance, then transitions to millimeter-wave radar terminal guidance. It is part of the AH-64D Longbow Apache attack helicopter system that includes a mast-mounted fire control radar (FCR) and launcher. The Longbow FCR will locate, classify, and prioritize targets for the Longbow Hellfire missile. The Longbow Hellfire modular missile incorporates a Ka-band-millimeter-wave radar seeker on a Hellfire II missile aft-section bus.

The primary advantages of the Longbow missile include:

- Adverse weather capability and other battlefield obscurants
- Millimeter-wave countermeasures survivability
- Fire-and-forget guidance that allows the Apache to launch and then immediately remask, thus minimizing exposure to enemy fire
- Advanced warhead capable of defeating all projected armor threats into the 21st century
- Reprogrammability to adapt to changing threats and mission requirements

The combination of Longbow Hellfire's fire-and-forget capability, and Hellfire II's semi-active laser precision guidance will provide the battlefield commander with flexibility across a wide range of mission scenarios. This permits fast battlefield response and high mobility not afforded by other anti-armor weapons. Specifications include:

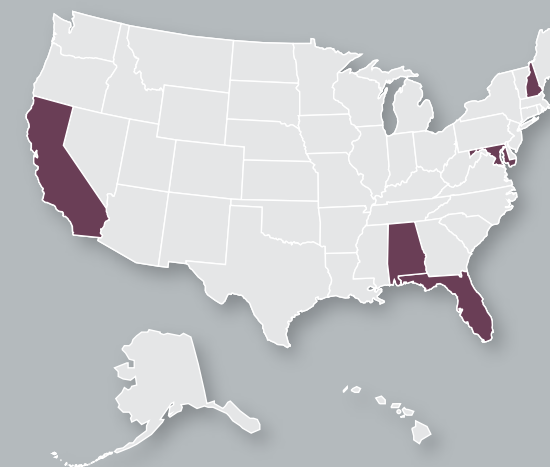
- Diameter:** 7 inches
- Weight:** 108 pounds
- Length:** 69.2 inches
- Range:** 0.50 – 8.0 kilometers

## PROGRAM STATUS

- **4QFY04** Completed four multi-year deliveries of 2200 missiles.
- **3QFY04-4QFY05** Continue five multi-year final increment deliveries of 1797 missiles.

## PROJECTED ACTIVITIES

- **FY05** Continue fielding and sustainment activities
- **4QFY05** Complete full-rate production



## CONTRACTORS

Longbow LLC (Orlando, FL)

### Guidance Section:

Northrop Grumman (Huntsville, AL)

**Sensor Group:** Lockheed Martin (Orlando, FL)

### Electronics and Chips:

Northrop Grumman (Baltimore, MD)

**Transceiver:** BAE Systems (Nashua, NH)

**Transmitter:** M/A Com (San Jose, CA)

## INVESTMENT COMPONENT

Modernization

## ACQUISITION PHASE

- Production and Deployment

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