



***NORTHROP GRUMMAN***

***LOCKHEED MARTIN***   
*We never forget who we're working for®*

**LONGBOW FCR**  
and **LONGBOW HELLFIRE** Fire-and-Forget Missile for the Apache





PD079-072

**The LONGBOW HELLFIRE missile locks on targets before or after launch.**



PD079-203

**The M299 Smart Launcher is capable of firing all HELLFIRE missile variants.**



PD079-073

**In service for a decade with the U.S. Army, the LONGBOW HELLFIRE missile system has been successfully employed in decisive missions around the world.**

## Specifications

### LONGBOW FCR (AN/APG-78)

<b>Range</b>	8 km
<b>Frequency</b>	Ka band
<b>Modes</b>	Surveillance, targeting, RFI cued, terrain profiling, and air overwatch
<b>Weather</b>	Clear to adverse
<b>Environments</b>	All battlefield obscuration

### Missile (AGM-114L)

<b>Range</b>	0.5 – 8 km
<b>Guidance</b>	Millimeter wave
<b>Compatibility</b>	Launch from multiple platforms
<b>Commonality</b>	Bus and warhead with HELLFIRE II
<b>Weight</b>	108 lb (49 kg)
<b>Length</b>	69 in (176 cm)
<b>Diameter</b>	7 in (17.8 cm)

# LONGBOW

The **LONGBOW** system is built by a Joint Venture of Lockheed Martin and Northrop Grumman. U.S. Army testing shows integrated capabilities enhance the Apache lethality fourfold and survivability sevenfold. The mission equipment package is in production for the U.S. and several international customers. The Apache **LONGBOW** system is a proven force multiplier that has been battle-proven in Operation Enduring Freedom and Operation Iraqi Freedom. The **LONGBOW** Weapon System has been in full-rate production since 1996, with First Unit Equipped in 1998. Nearly 400 radars and more than 14,000 missiles have been contracted for the U.S. Army and international customers. For the Apache Block III upgrade, a new Radar Electronics Unit (REU) will replace two line-replaceable units. The REU will provide growth capabilities to the **LONGBOW** FCR and will reduce maintenance cost.

## LONGBOW FCR

The **LONGBOW** FCR has a very low probability of intercept. It rapidly and automatically searches, detects, locates, classifies, and prioritizes multiple moving and stationary targets on land, water and in the air in all weather and battlefield conditions from standoff ranges. Target coordinates are automatically available to other sensors and weapons for target confirmation, rapid engagement, and reduced fratricide. Target data is digitally available through the data modem for real-time transfer to other platforms and command posts. The self-contained Radar Frequency Interferometer provides rapid and accurate identification and azimuth to enemy air defense units. High system reliability and two-level maintenance maximize operational availability and reduce support costs.



PD079-074

**The LONGBOW FCR – UK Apache pilots in Afghanistan say they "won't fly without it."**

## LONGBOW HELLFIRE Missile

The **LONGBOW** system employs fire-and-forget **LONGBOW** HELLFIRE AGM-114L missiles that can be launched from defilade, increasing battlefield survivability. The **LONGBOW** HELLFIRE missile locks on targets before or after launch and has been used in Operation Enduring Freedom and Operation Iraqi Freedom.

The M299 Smart Launcher has a fully digital interface to the Apache helicopter and fires all types of HELLFIRE missile.

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