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1/48 AH-1W  
 1/48 AH-1W

# SHARK MOUTH VIPER



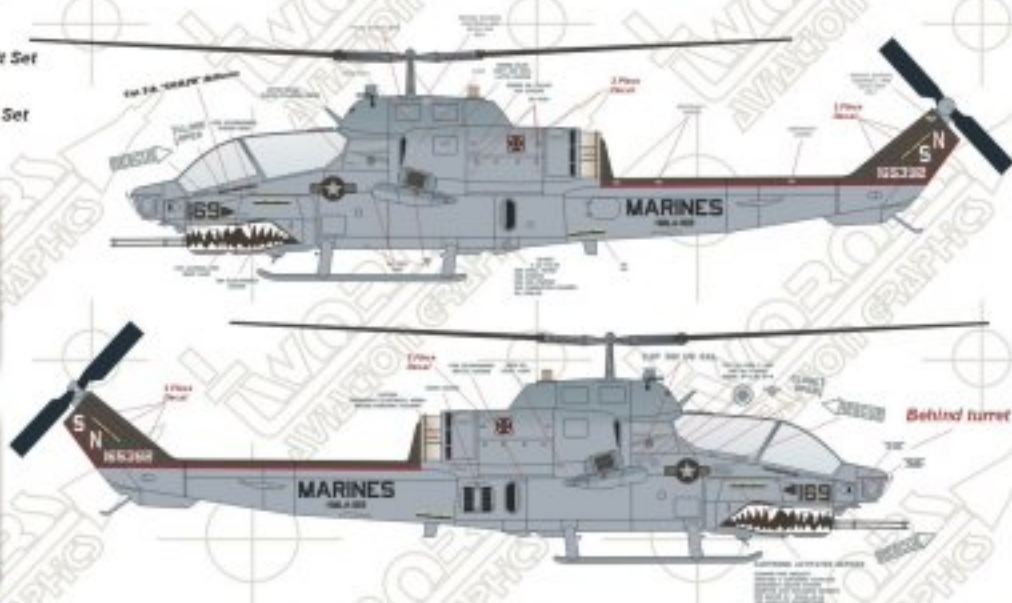
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**WHAT'S OUT THERE?**


- 1/48th Italeri AH-1W
- 1/48th Cobra Company Cockpit Set
- Cutting Edge Canopy Mask
- 1/25th MRC/Academy AH-1W
- Cobra Company NTS Upgrade Set
- Eduard Accessories





Special thanks to Mike Pister for all the references on this info.

Thanks Mike!

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### AH-1W NTS Upgrade

Night Targeting System (NTS) (TECHEVAL) was conducted from May through September 1993 by VX-5 at Naval Air Warfare Center, Weapons Division (NAWC-WD), China Lake, Yuma Proving Ground, Arizona, White Sands Missile Range, New Mexico, Bridgeport, California, and on amphibious ships at sea. Follow-on Operational Test and Evaluation (FOT&E) (OT-16A) commenced in February 1994 and concluded in May 1994. NTS OPEVAL was conducted from May through September 1993 by VX-5 at Naval Air Warfare Center, Weapons Division (NAWC-WD), China Lake, Yuma Proving Grounds, Arizona, White Sands Missile Range, New Mexico, Cold Lake, Canada, and on amphibious ships at sea. Follow-on Operational Test and Evaluation (FOT&E) commenced during July 1994 and ended in April 1995.

The NTS upgrade provides increased missile, safety and performance characteristics and incorporates a Canopy/Cockpit Modification to the front cockpit. The approved OSIP's which include the ARC-210 (v) EP Radio, the ARN-153W4 (TACAN) and the Global Positioning System/Embedded Inertial Navigation System (EGH/AN/A-SN-163 (V)) will also enhance the AH-1W Weapon Systems upon their incorporation.

The NTS is a modification of the existing M-65 TOW Missile System that offers a fire control system providing the flight crew with the ability to detect, acquire, track, lock-on, range, and designate targets under day, night, and adverse weather conditions. ECP 1M684, Canopy/Cockpit Modification is the ECP that modifies the aircraft to accommodate the NTS. The front cockpit of the AH-1W has been modified to facilitate the addition of the NTS. This modification has also resulted in increased efficiency in the front cockpit and helps divide cockpit workload between the front and rear cockpits. Specifically, the additions and deletions are: Expansion of the ASD-205 Cockpit Control System (CCS) to include the front cockpit, re-design of the instrument panel to include a more IFR compatible flight instrument cluster; addition of a 5" x 5" Multi-Function Display (MFD) in the front cockpit; and addition of the ANVIS HUD system with control heads in both cockpits. The Night Targeting System (NTS) includes the following hardware changes to the AH-1W: modification of the M-65 telescopic sighting unit (TSU) to accommodate the FLIR; an extended Optical Relay Tube (ORT) to accommodate a CCD TV camera; and a deletion of a Laser Designator/Range-finding System (LDRS).

ECP-1674 Electronic Warfare (EW) Suite reduces aircraft vulnerability with electronic countermeasures. The suite is designed to alert and protect the aircraft from surface-to-air and air-to-air missiles. The AN/AAR-47 Missile Warning System (MWS) provides a visual and aural warning to flight crews of missile detection, while at the same time the MWS will initiate countermeasures by sending an quiet signal to the AN/ALE-39 Countermeasures Dispenser Set (CODS). The AN/AWR-2 Laser Warning Receiver detects pulsed laser light (such as a rangefinder) directed at the helicopter and warns the crew of this activity. It provides an audio alert and identifies the threat by its type and location relative to the helicopter. The AN/APR-39A(V)2 Radar Detection System is a passive omni-directional detection system which receives and displays information to the pilot concerning the radar environment surrounding the helicopter.

Reference: <http://www.globalsecurity.org>



Cobra Company currently markets an NTS Upgrade for your 1/35th MRC/Academy AH-1W Cobra. This set is required to build an accurate representation of the helicopter on this sheet.

Catalog number 35009 as well as other aftermarket resin, helicopter accessories are available from Chris Miller at <http://www.cobracompany.com>.

Twoobots' goal is to provide you with the most thoroughly researched decals that money can buy. We go beyond using traditional reference resources and many times speak with the actual aircrews and maintainers of our subject matter. Being modelers ourselves, we understand that there is no substitute for this painstaking research and we are proud to offer, what we feel, are the best decals on the market. If you have any subject matter that you feel should be the next Twoobots creation, let us know. We'll be happy to listen to any and all customer input.