

## AH-64D LONGBOW CREW TRAINER (LCT)

NSN Not Assigned  
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DVC 01-195/1 AH-64 Longbow Crew Trainer (LCT), Block I  
DVC 01-195/2 AH-64 Longbow Crew Trainer (LCT), Block II  
DVC 01-195/3 AH-64 Longbow Crew Trainer (LCT), Block III



**Training Category/Level Utilized:**  
Aviation/Level 1

**Logistic Responsible Command, Service, or Agency:**  
PM-AAH

**Source and Method of Obtaining:**  
Not generally available for issue (limited production).

**Purpose of Trainer:**  
Institutional and field use to support AH-64D Longbow combat skills initial, refresher, and sustainment training of unit aircrews.

**Functional Description:**  
The AH-64D Longbow Crew Trainer (LCT) is designed to provide a training capability for flight, instruments and weapons delivery, normal and emergency procedures, and sensor system operating tasks required in the operational design of the basic helicopter. These systems include the Fire Control Radar (FCR), Pilot Night Vision Sensor (PNVS) and the gunner's Target Acquisition and Designation Sight (TADS) systems.

The simulator consists of a self-contained trailerized system, pilot and copilot/gunner cockpits, instructor module, motion seat subsystem, visual subsystem, and an integrated host computer. The pilot and copilot / gunner cockpits are replicas of the actual aircraft cockpits and each has a dynamic motion seat.

The visual system provides a current state-of-the-art out-the-window scene and sensor imagery to each of the appropriate crew member video displays. Simulated imagery includes forward-looking infrared (FLIR) and day television (DTV). The training functions are controlled

from the instructor operator station located in each trailerized training device.

**Physical Information:**  
Device Trailer (59,000 LB) W x H x L  
Transport Mode 8'6" x 13'6" x 53'  
Deployed Mode 18'3" x 13'6" x 53'  
Service Trailer (38,000 LB) 8'6" x 13'3" x 53'  
Total Deployed Surface Footprint 66' x 95'

**Equipment Required, Not Supplied:**  
Environmental Control Unit provides for required humidification. Needs approximately 4.5 Gallons of water daily, ECS has a 5 Gal water tank.

**Special Installation Requirements:**  
None

**Power Requirements:**  
None if use of self-contained power multifuel generator. If the unit elects not to power the LCT with the integrated generator, provisions for ground-supplied (SHORE) power must be facilitated with the installation.

LCT Component / SHORE power requirements:  
DEVICE TRAILER;  
40 kva / 103 Amps, 120/208vac, 3-phase, 60 Hz WYE  
ECU;  
105 kva / 291 Amps, 120/208vac, 3-phase, 60 Hz WYE  
SERVICE SHELTER;  
3 kva / 8 Amps, 120/208vac, 3-phase, 60 Hz, WYE