

**PHALANX MK-15 CLOSE IN WEAPON SYSTEM MAINTENANCE TRAINER, DEVICE 11G2****TRAINING CATEGORY:**

MAINTENANCE TRAINING (Fire Cont Sys)

ORIGINATING AGENCY:

CNET

SECURITY CLASSIFICATION:

Device 11G2 hardware is unclassified.
Device 11G2 software is unclassified.
CIWS-MT classified data files diskette is
classified CONFIDENTIAL.

PURPOSE OF DEVICE:

To provide a realistic, safe, and instructional-ly sound training environment for the maintenance of the Phalanx MK-15 Close-In Weapon System (CIWS).

INTENDED USE:

In Fire Control schools for training of enlisted Fire Control Technicians (FT) with the knowledge and skills necessary for the tactical operation and organizational maintenance of the MK-15 CIWS.

FUNCTIONAL DESCRIPTION:

The Device 11G2 CIWS Maintenance Trainer is a stand-alone computer-controlled system with realistic simulation of the CIWS operator controls, indicators, test points, and conditions. The system consists of four (4) major subassemblies: control console, panel storage cabinet, printer, and CIWS removable display panels.

The device provides accurate real-time interactive responses to student actions, reinforcing proper use of test equipment, technical manuals, and maintenance procedures. The CIWS trainer software provides realistic real-time simulation models of operational and test equipment responses

DIRECTORY OF NAVAL TRAINING DEVICES

for normal and abnormal conditions of the major subsystems of the CIWS. Fault isolation procedures are achieved by the "free play" capability of the CIWS-MT, providing accurate responses to the student. Instructors can select any one of approximately 480 selectable malfunctions provided.

Safety violations, such as improper handling of high voltage circuits that could be life threatening or hazardous to actual equipment, are immediately identified, and feedback is provided to the student and instructor through an alarm. The actual hazardous procedures are logged in the student's file by the system. A printer supplies the instructor with a hardcopy of the student's actions.

The CIWS-Maintenance Trainer consists of the following: microcomputer system which controls the trainer operation; color monitor that displays visual images from the videodisk; CRT terminal with keyboard used to control lesson setup and for student interaction with the system; two (2) fixed test panels; and ten (10) removable training panels which simulate CIWS subsystems. The student interaction is completed through the keyboard, test equipment, switches, and controls located on the trainer and panels.

PHYSICAL INFORMATION:

Number of Pieces:

Three (3) major, Ten (10) minor

Sizes:

Control Console	70.36" x 43.5" x 152.5"
Panel Storage Cabinet	70.36" x 52" x 27"
Printer & Stand	36" x 30" x 24"
Removable Display Panels (10)	29.5" x 4.2" x 50"

Weights:

Total CIWS-MT weight is 2,500 lbs.
Removable Panels average 30 lbs.

POWER REQUIREMENTS:

110/115 VAC, 60-Hz, 20-amp cap. outlet

AIR CONDITIONING REQUIREMENTS:

Additional 3/4-ton air conditioner to compensate for CIWS-MT and student air conditioning load.

PUBLICATIONS FURNISHED:

1. Technical Manuals, Operation and Maintenance Instructions, including Parts List for Close-In Weapon System Maintenance Trainer (CIWS-MT) Device 11G2, NAVTRADEV P-4978 (5 vols) (U)
2. Maintenance Requirement Cards, NAVTRADEV P-4980 (U)

PERSONNEL:

Instructor: One (1), Fire Control Technician Second Class or above.

Operator: Instructor Operated

Trainees: Two (2) Students per Trainer

Maintenance: One (1) DS or FT (30 minutes daily preventive maintenance)

CONTRACT IDENTIFICATION:

Initially manufactured by Cubic Corporation, San Diego, CA under NAVTRASYS-SCEN Contract No. 61339-80-C-0145. Subsequent block upgrades were provided by Cubic Corporation, under Contract No. N61339-86-G-0001-0001.

LOCAL STOCK NUMBER:

6940-LL-C00-5346