

SUMMARY OF

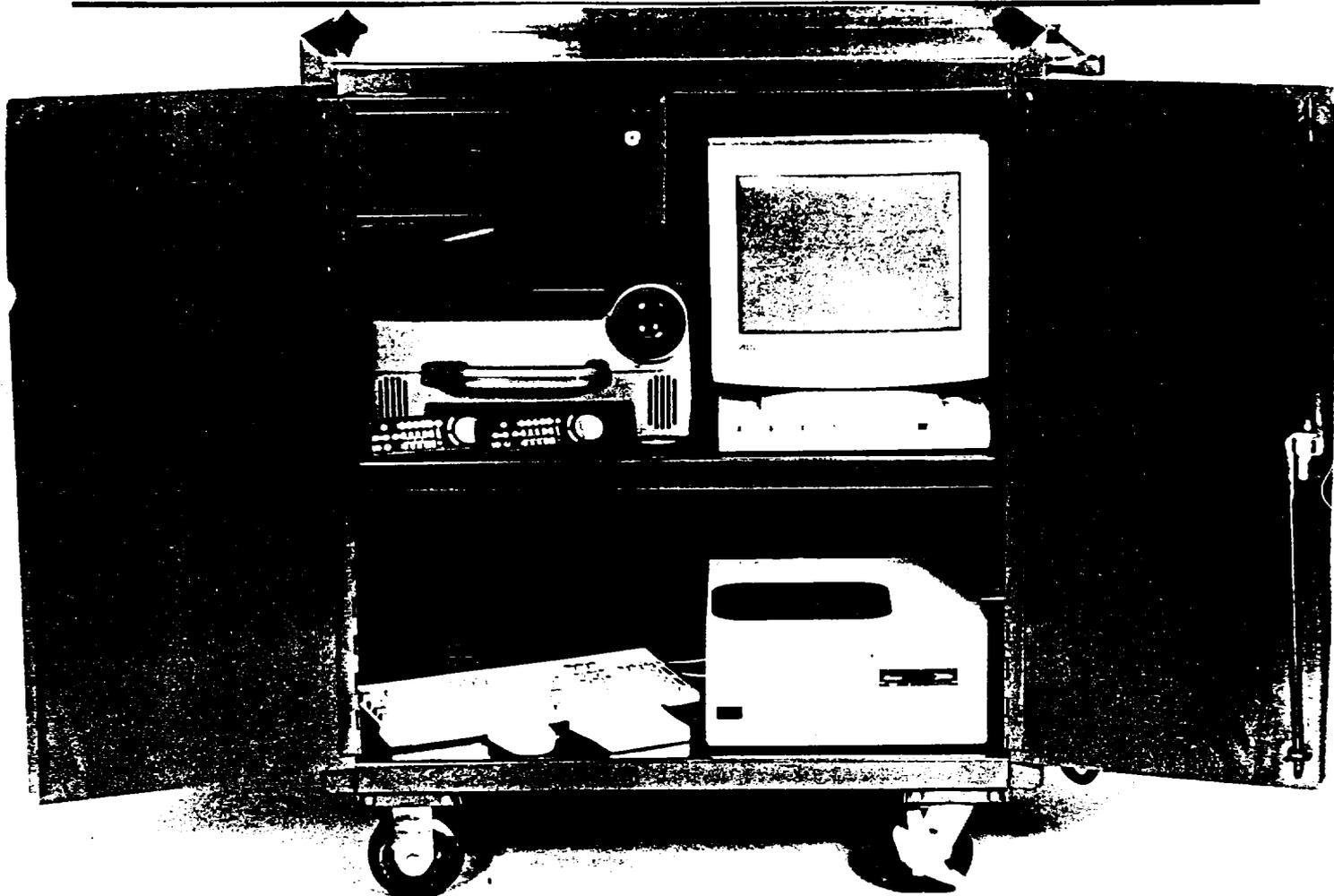
ACFT INERTIAL NAVIGATION SYS TRNR INSTR WK STA

AUGUST 1998

DEVICE 6E37

NAVAL AIR WARFARE CENTER TRAINING SYSTEMS DIVISION

ORLANDO, FL



TRAINING CATEGORY:

Basic Aircraft Electronics

ORIGINATING AGENCY:

CNO / AIR

SECURITY CLASSIFICATION OF DEVICE:

Device 6E37 is unclassified.

PURPOSE OF DEVICE:

The Device 6E37 (Instructor Station) Aircraft Inertial Navigation Systems Trainer has been developed to train organizational level, electrical troubleshooting skills associated with basic aircraft

navigation and instrumentation systems. The Device 6E37 is an Instructor led training device.

INTENDED USE:

The Device 6E37 (Instructor Station) Aircraft Inertial Navigation Trainer will be used in the training of Aviation Electricians (AE) in theoretical operation and troubleshooting of Inertial Navigation Systems (INS) and Attitude Heading Reference Systems (AHRS) at the following site:

Aviation Electricians (AE) School of the Naval Air Technical Training Center, Pensacola, FL

FUNCTIONAL DESCRIPTION:

The Device 6E37 is designed to facilitate instruction on the cognitive and psychomotor skills necessary to perform the Aviation Electricians Mate job function relevant to the Inertial Navigation Systems and Attitude Heading Reference Systems. It accomplishes this through Interactive Courseware technology designed to maximize user flexibility in the selection of activities and exercises.

The Device 6E37 consists entirely of COTS equipment housed in a mobile lockable Media Cart and arranged to afford ease of use in the placement of primary controls. A Command Center allows for one step power up and shut down of the device.

The computer system for Device 6E37 is based on modern, high-integration motherboards that employ the Peripheral Component Interface (PCI) data bus architecture for local and slot-based devices and includes an ISA bus interface for legacy slot-based devices. The Computer System contains a 133 MHz Pentium motherboard with the Intel Triton chipset, 32 MB of RAM, 1.2 GB Hard Drive, 1.5 GB Removable Media Drive, 1.44 Floppy Drive, 24X CD ROM, 15" Color Monitor, Standard Mouse, Keyboard and Trackball.

A Data Projector and wall mounted Viewing Screen are provided which allows for entire classroom visual training. The projector uses a 10" active matrix (TFT) LCD display panel and a 5600°K metal halide light source. This projector features normal keystone correction without adjustment and incorporates a single-lens optical system for ease of use and requires minimal adjustments. The projector also includes stereo-speakers and a Remote Control Mouse.

PHYSICAL INFORMATION:

Each Device 6E37 is 53 inches in width, 48 inches in depth and 70 inches in height. Each unit weighs approximately 250 pounds.

EQUIPMENT REQUIRED (Not Supplied):

None

POWER REQUIREMENTS:

The Device 6E37 requires 120 volt, 60 Hz single phase power. Grounding is in accordance with MIL-T-23991.

INSTALLATION REQUIREMENTS:

The Device is mounted on casters allowing it to be installed in any location where facility power is accessible. The Device 6E37 has been designed to operate at ambient temperatures between +16°C and +38°C and relative humidity between 30% and 90% non-condensing without performance degradation.

PUBLICATIONS FURNISHED:

The following publications support the Device 6E37:

- A. Operation and Maintenance Manual , Aircraft Inertial Navigation Systems Trainer (Instructor Station), NAWCTSD P-7365, (U).
- B. COTS Manuals, Aircraft Inertial Navigation Systems Trainer (Instructor Station), NAWCTSD P-7366, (U).
- C. Training System Utilization Handbook, Aircraft Inertial Navigation Systems Trainer (Instructor Station), NAWCTSD P-7367, (U).

PERSONNEL REQUIREMENTS:

Students should be, at a minimum, apprentice technicians with sound basic knowledge of electronic theory and troubleshooting techniques with some experience in maintaining electronic systems.

CONTRACT IDENTIFICATION:

Manufactured by American Systems Corporation , Winter Park, Florida under NAVAIRWARCENTRASYS DIV Contract Number N61339-97-C-0050.

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