

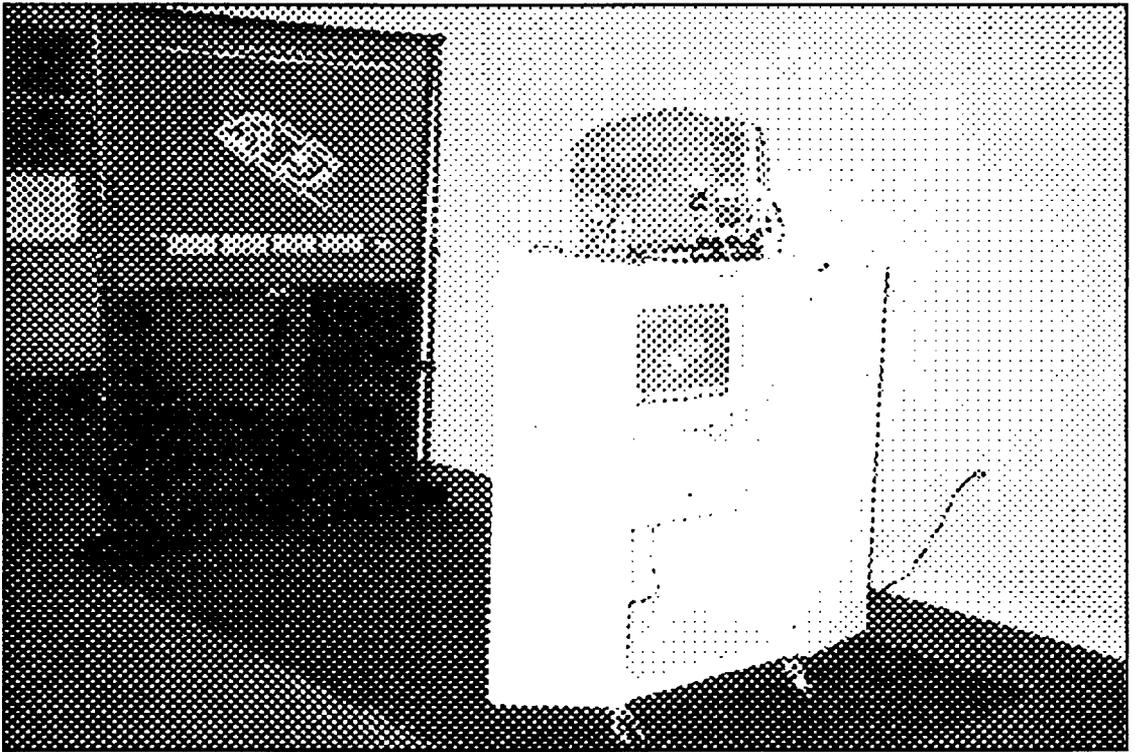
SUMMARY OF
AIRCRAFT GYRO GIMBAL TRAINER

SEPTEMBER 1996

DEVICE 6E34

NAVAL AIR WARFARE CENTER

PENSACOLA, FLORIDA



Device 6E34 - Aircraft Gyro Gimbal Trainer

TRAINING CATEGORY:

Basic Science (gyroscope operations and components)

ORIGINATING AGENCY:

CNO/AIR

SECURITY CLASSIFICATION OF DEVICE:

The 6E34 trainer is unclassified.

PURPOSE OF DEVICE:

Develop Navy students' understanding of an aircraft displacement gyro gimbal system.

INTENDED USE:

The trainer allows the instructor to demonstrate basic aircraft gyroscope movement during flight; basic orientations of a gyroscope with respect to an aircraft and Earth; main components of a gyroscope; and basic

electrical signals aiding gyroscope control.

FUNCTIONAL DESCRIPTION:

The 6E34 trainer will be used to instruct aircraft maintenance personnel in basic gyroscope gimbal operations. The portable trainer consists of a computer, a projector, and a projection screen. (The computer and projector are contained in a metal, lockable media cart.) The visual display is driven by software and includes both static and moving 3-D models of the aircraft displacement gyro gimbal system. The trainer provides four scenarios of basic gyroscope gimbal operations.

PHYSICAL INFORMATION:

Cabinet dimensions (WDH):
24-3/8" x 23" x 48"

Screen dimensions (open):
50" x 50"

EQUIPMENT REQUIRED (Not supplied):

None

POWER REQUIREMENTS:

120 VAC, 60 Hz

INSTALLATION REQUIREMENTS:

None

PUBLICATIONS FURNISHED:

6E33/34/35 Operations and Maintenance Guide, P-7196 (U)

6E33/34/35 Training Systems Utilization Handbook, P-7197 (U)

PERSONNEL REQUIREMENTS:

Instructor; students

CONTRACT IDENTIFICATION:

Manufactured by Essex Corporation, Federal Systems Division, Huntsville, Alabama, under NAVAIRWARCENTRASYS DIV contract No. N-61339-94-C-0035

Reproduction of this publication in whole or in part is permitted for any purpose of the United States Government.