



AIR TACTICAL CONTROL OPERATOR (ATACO) TRAINER, DEVICE 20F18A

TRAINING CATEGORY:

SURFACE OPERATIONS (SHIP)
(CIC/Command Control Ship)

ORIGINATING AGENCY:

CNET

SECURITY CLASSIFICATION:

Device 20F18A hardware is unclassified.
Device 20F18A software is classified SECRET.

PURPOSE OF DEVICE:

To provide ATACO position mode training utilizing OJ-194/UYA-4(V) look-alike consoles in support of LAMPS MK III shipboard and tactical operations.

INTENDED USE:

In Sonarman Schools for dynamic training of shipboard members in the visual and tactile responses and decision coordination required of an Air Tactical Control Operator (ATACO) to stand a Condition I watch with supervision.

FUNCTIONAL DESCRIPTION:

Device 20F18A is a scenario-driven electronics system consisting of real-time data sources which simulate the various airborne and ship-board sensors (including sonobuoys) associated with the FFG-7 class frigate and SH-60B helicopter. Real-time data sources consist of forty-five (45) "canned" scenarios (stored on magnetic disk) which are selected and manipulated by the instructor. Data manipulation is accomplished on all consoles through trackballs and various switch array inputs. The scenarios may be run at a rate of one, two, or four times that of real-time.

The system features two (2) dual instructor stations, four (4) trainee consoles, and four (4) operator stations arranged in four (4) separate, independent triads (one instructor console/one trainee console/one operator console) and a debriefing station. One or two instructors may man an instructor station depending upon the control, simulation, and stimulation for the entire trainer.

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Each instructor console allows for control and monitoring of exercises. An intercommunications system provides for voice communications between instructors, trainees, and operators. A video cassette recorder (VCR) is installed in each instructor console to enable the instructor to record real-time exercises as they evolve.

Four (4) operator consoles contain the controls and indicators to allow an assisting instructor to role play LAMPS MK III airborne personnel and to maneuver any platform in an exercise.

The trainee consoles are look-alike OJ-194/UYA-4(V) ATACO consoles with a DDI, PPI, IFF Decoder, and a simulated AN/SRQ-4 Antenna Control Monitor (ACM). The look-alike consoles are similar to the actual console in physical dimensions, operational controls, indicators, and display subsystems. The console provides all functional capabilities available to an ATACO aboard a FFG-7 platform.

An alphanumeric CRT terminal allows instructor control of the computer system and a means to generate new scenarios. A printer supplies automatic scoring, exercise synopsis, and detailed and time-line data performance measurement printouts (instructor selectable) at the termination of an exercise. The Trainer presents sensor data and feedback messages on DDI and PPI displays at each console. Preprogrammed platforms (air, surface, and subsurface) and media provide the tactical environment.

PHYSICAL INFORMATION:

Number of Pieces: Twenty-three (23) major,
Twelve (12) Minor (headsets)

Sizes/Weights:

SEL 32/9782		
Computer (1)	55.5" x 68.5" x 35.25"	1200 lbs
P-600 Line Printer (1)	41" x 30" x 27"	200 lbs
Magnetic Tape Cabinet (1)	71" x 23" x 35"	250 lbs
Disk Drive Interface Cabinet (1)	71" x 23" x 35"	200 lbs
Televideo 921 CRT (1)		
Cabinet	14" x 12.5" x 11.5"	
Keyboard	1.5" x 17.6" x 7.3"	
Instructor Station (4)	64" x 25" x 32"	300 lbs

Instructor DDI (4)	64" x 25" x 32"	200 lbs
Operator Station (4)	28" x 45.5" x 32"	100 lbs
OJ-194 Student Station (4)	46" x 38" x 47"	400 lbs
Media Storage Cabinet (1)	83" x 36" x 18"	200 lbs
Parts Storage Cabinet (1)	60" x 36" x 18"	200 lbs

POWER REQUIREMENTS:

120/208 VAC, 3-Phase, 4-Wire, 60 Hz,
42.5 KW

AIR CONDITIONING REQUIREMENTS:

Equipment:	12.1 Tons (145,028 BTU/hr)
Personnel:	0.5 Tons (6,650 BTU/hr)
Total	12.6 Tons (151,678 BTU/hr)

INSTALLATION REQUIREMENTS:

Classroom 1	-	26' x 16'
Classroom 2	-	14' x 22'
Computer Room	-	12' x 22'

PUBLICATIONS FURNISHED:

Technical Manual, Operation and Maintenance Instructions including Parts List for Air Tactical Control Operator (ATACO) Trainer, Device 20F18A, NAVTRADEV P-5788 (U).

PERSONNEL:

Instructor:	One (1) to Two (2) Sonarman (Surface) Second Class or above
Operator:	Instructor-Operated
Maintenance:	One (1) DS or STG (120 minutes daily scheduled Mean Preventive Maintenance Downtime)

CONTRACT IDENTIFICATION:

Manufactured by Cubic Corporation, Defense Systems Division, 9333 Balboa Avenue, San Diego, CA under NAVTRASYS-SCEN Contract No. N61339-87-C-0032.

LOCAL STOCK NUMBER:

6940-LL-C00-6929