



SURFACE ASW TRAINER, DEVICE 14A12

TRAINING CATEGORY:

ANTI-SUBMARINE WARFARE (ASW)

ORIGINATING AGENCY:

NAVSEA

SECURITY CLASSIFICATION:

Device 14A12 is SECRET.

PURPOSE OF DEVICE:

To provide ASW team procedural and tactical training and evaluation in a multi-threat environment for conventional and tactical data equipped ships.

INTENDED USE:

Shore-based simulated scenario refresher training for replacement crews.

FUNCTIONAL DESCRIPTION:

The Surface ASW Trainer Device 14A12 improves the ASW team's ability to perform the own ship's mission. Realistic simulated scenarios provide immediate feedback on performance.

Trainee equipment consists primarily of reprogrammable general purpose consoles capable of simulating current and emerging operational navigation, sensor, and weapon equipment requisite to ASW team training.

The 14A12 operates in one fully operational mode and can operate in degraded modes in the event of certain equipment failures.

Instructors monitor and control training through general purpose consoles by selecting and running exercises and evaluating student performance during the exercises. Exercises can be recorded and played back for debrief at real or

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accelerated time. To assist in developing exercises, Device 14A12 includes a standard ocean acoustic model and a master data bank.

The 14A12 computer system is composed of modular distributed processors and peripherals which communicate via local area networks.

Voice communications equipment for trainees simulating 29MC, 21MC, sound powered, and external radio/telephone systems typical of shipboard is provided in addition to communication networks for instructors and maintenance personnel. Simulated sonar acoustics can be injected for sonar operators.

PHYSICAL INFORMATION (Typical):

Device 14A12 is six (6) land-based rooms:

Bridge Mockup:	14' x 12'
SONAR Mockup:	28' x 14'
Own Ship Aircraft Mockup:	27' x 14'
Exercise Development Station:	25' x 24'
CIC Mockup:	33' x 29'
Exercise and Control Debrief:	29' x 27'

POWER REQUIREMENTS:

208V, 60 Hz, 3-Phase, 3-Wire, DELTA, 125 amp capacity output.

PUBLICATIONS FURNISHED:

1. Operation and Maintenance Manual for Device 14A12, NTSC P-6380 (U)
2. Preventive Maintenance System for Device 14A12, NTSC P-6381 (U)
3. Commercial Computer Documentation Set for Device 14A12, NTSC P-6382 (U)
4. Instructor's Utilization Handbook for Device 14A12, NTSC P-6383 (U)
5. On The Job Training Handbook for Device 14A12, NTSC P-6384 (U)
6. Software User's Manual Software Support/ Update Training for Device 14A12, NTSC P-6385 (U)

PERSONNEL:

Instructor/

Operator: One (1) Operation Specialist Senior Chief
Two (2) Operation Specialist Chiefs
One (1) Sonar Technician Chief
Two (2) Operation Specialists First Class
One (1) Sonar Technician First Class
Two (2) Operation Specialists Second Class

Trainees: Class of up to Twenty (20)

Maintenance: Four (4) journeyman electronics technicians proficient in maintenance of training devices, including embedded computer equipment..

CONTRACT IDENTIFICATION:

Manufactured by Link Tactical Simulation Div., Silver Spring, MD under NAVTRASYSCEN Contract No N61339-87-C-0096.

LOCAL STOCK NUMBER:

6930-LL-C00-5969