SECRET-CRYPTO

# CRYPTOGRAPHIC EQUIPMENT
# PLANNING AND REFERENCE
# GUIDE (U)

## CSP 6620A

**DEPARTMENT OF THE NAVY**
**OFFICE OF THE CHIEF OF NAVAL OPERATIONS**
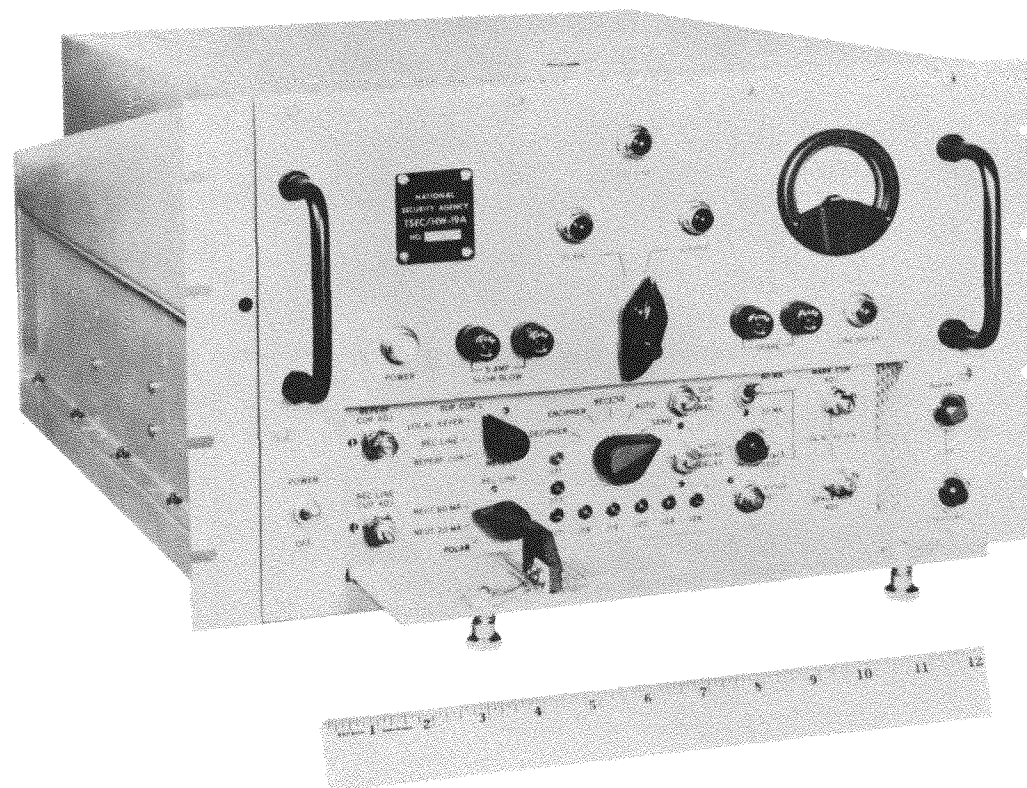**SEPTEMBER 1962**

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ORIGINAL
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# TSEC/HW-19A

PRODUCTION MODEL

| | |
|---|---|
| **DESCRIPTION** | A BASIC ELECTRONIC TELETYPEWRITER SIGNAL MIXER USED IN ON—LINE HALF DUPLEX OR OFF—LINE APPLICATIONS. IT COMBINES, BY BINARY ADDITION, THE FIVE LEVEL CODE OF THE TELETYPEWRITER CHARACTERS, WHICH ARE ON A ONE—TIME KEY TAPE, WITH THE FIVE LEVEL CODE OF THE TELETYPEWRITER CHARACTERS TO BE ENCIPHERED OR DECIPHERED. IT IS USED IN CONJUNCTION WITH THE HW—10 WHICH READS THE ONE—TIME TAPE IN PYTHON OPERATION. THE OUTPUT CONSISTS OF A START—STOP NON—SYNCHRONOUS TELETYPEWRITER SIGNAL AT SPEEDS OF 45.5 TO 75 BAUD. (60—100 WPM)<br><br>PREVIOUS DESIGNATION: AFSAZ 7319 |
| **STATUS** | APPROVED FOR SERVICE USE (OPNAVINST 02651.18 OF 23 JAN 1961 REFERS) / SPARE PARTS SUPPORT — ESO |
| **TRAINING** | NO SPECIALIZED TRAINING REQUIRED. |
| **CRYPTOSYSTEM** | CURRENTLY USED ONLY WITH PYTHON |
| **CLASSIFICATION** | EQUIPMENT: UNCLASSIFIED<br>KEYING MATERIAL: SEE HW—10 SECTION<br>TRAFFIC: ALL CLASSIFICATIONS (FOR TOP SECRET AND SPECIAL CATEGORY TRAFFIC CSPM 1C, 1—50 REFERS) |
| **PUBLICATIONS** | MAINTENANCE: KAM—40 (UNCLAS)<br><br>OPERATING: KAO—8 (CONFIDENTIAL—CRYPTO) |

| PROCUREMENT (COST IN THOUSANDS) | UNIT COST | PAST | | FY 1963 | | FY 1964 | | FY 1965 | | FY 1966 | | FUTURE | | TOTAL | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | $1,000 TO $3,000 | QTY | AMOUNT | QTY | AMOUNT | QTY | AMOUNT | QTY | AMOUNT | QTY | AMOUNT | QTY | AMOUNT | QTY | AMOUNT |
| | | 866 | 980 | | | | | | | | | | | 866 | 980 |

| PHYSICAL CHARACTERISTICS | HEIGHT | WIDTH | DEPTH | WEIGHT | VOLTAGE | POWER | REMARKS |
|---|---|---|---|---|---|---|---|
| | 10 1/2 IN. | 18 7/8 IN. | 23 1/4 IN. | 89 LBS. | 115 (60 CPS) | 200 WATTS | SUPPLIED WITH RACK MOUNTING ADAPTERS FOR STANDARD 19 IN. RACKS. |

| | |
|---|---|
| **ASSOCIATED EQUIPMENT** | C—2842/UG: SEE HW—10 SECTION FOR INFORMATION |
| | |

## TSEC/HW—19A: SYSTEM DIAGRAMS

CSP 6620A

ON—LINE
HALF—DUPLEX
SYSTEM

HW—10

HW—10

| PAGE PRINTER |
| REPERF |
| TD |

HW—19A

SINGLE CHANNEL TRANSMISSION SYSTEM

HW—19A

| PAGE PRINTER |
| REPERF |
| TD |

OFF—LINE
SYSTEM

ENCRYPT

DECRYPT

HW—10

HW—10

| PAGE PRINTER |
| TD |

HW—19A

REPERF

TD

HW—19A

| PAGE PRINTER |
| REPERF |

6—18

CORRECTED TO 3/28/62

ORIGINAL