TSEC/KW-2
**DESCRIPTION**

AN ELECTRO–MECHANICAL CIPHER MACHINE WHICH IS CAPABLE OF NON–SYNCHRONOUS ON/OFF LINE ENCRYPTION OR DECRYPTION OF RADIO OR WIRE TELETYPewriter SIGNALS. THE COMBINATION OF KEY AND PLAIN TEXT IS PERFORMED IN AN ASSOCIATED MIXER (SEE PAGE 13–4). ACCEPTS 32 CHARACTERS FROM REMOTE TELEPRINTER AT 60 WORDS PER MINUTE. ITS CRYPTO UNIT IS A WIRED ROTOR MAZE WITH AN INTEGRATED STEPPING MECHANISM. THE MAXIMUM LENGTH OF ENCIIPHERMENT IS 6000 CHARACTERS OFF–LINE OR 12 HOURS OPERATION ON–LINE.

**STATUS**

THE USE OF THE KW–2 HAS BEEN DISCONTINUED ON OPERATIONAL CIRCUITS, 300 ARE BEING RETAINED (COMPLETE WITH MODIFICATIONS) AT SPECIFIED STORAGE LOCATIONS TO BE USED ON THE CENSORSHIP NETWORK IN THE EVENT OF MOBILIZATION.

**TRAINING**

NONE PRESENTLY REQUIRED.

**CRYPTOSYSTEM**

GORGON

**CLASSIFICATION**

EQUIPMENT: CONFIDENTIAL–CRYPTO

**PUBLICATIONS**

MAINTENANCE: AFSA–1208 (SECRET–CRYPTO)
OPERATING: KAO–9 (SECRET–CRYPTO)

**PROCUREMENT**

<table>
<thead>
<tr>
<th>UNIT COST</th>
<th>PAST</th>
<th>FY 1963</th>
<th>FY 1964</th>
<th>FY 1965</th>
<th>FY 1966</th>
<th>FUTURE</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>COST IN THOUSANDS</td>
<td>QTY</td>
<td>AMOUNT</td>
<td>QTY</td>
<td>AMOUNT</td>
<td>QTY</td>
<td>AMOUNT</td>
<td>QTY</td>
</tr>
<tr>
<td>$800</td>
<td>SEE UNDER STATUS</td>
<td></td>
<td></td>
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**PHYSICAL CHARACTERISTICS**

<table>
<thead>
<tr>
<th>HEIGHT</th>
<th>WIDTH</th>
<th>DEPTH</th>
<th>WEIGHT</th>
<th>VOLTAGE</th>
<th>POWER</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>11 1/8 IN.</td>
<td>14 1/4 IN.</td>
<td>14 1/4 IN.</td>
<td>73 LBS.</td>
<td>110 (60 CPS) OR 110 DC</td>
<td>250 WATTS</td>
<td></td>
</tr>
</tbody>
</table>
TSEC/KW-2: SYSTEM BLOCK DIAGRAM

GORVON
ON-LINE (ONE FULL DUPLEX TERMINAL SHOWN)

T/D
OR
KEY-
BOARD

PAGE-
PRINTER

REPERF.

TSEC/KW-2

AN/FGQ-1

AN/FGQ-1

AN/FGQ-1

SSM-3

SSM-33

TSEC/HW-6B

TRANSMIT

RECEIVE

TSEC/KW-2

PAGE-
PRINTER

REPERF.

* THE HW-18 IS AUTHORIZED FOR USE IN THE RECEIVE MODE ONLY.
** THE HW-68 IS NO LONGER IN USE WITHIN THE NAVY.