

CSP 6620A

REGISTER NO.

SECRET-CRYPTO

CRYPTOGRAPHIC EQUIPMENT
PLANNING AND REFERENCE
GUIDE (U)

CSP 6620A

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

EXCLUDED FROM AUTOMATIC
DECLASSIFICATION BY DIR 5200.10
PPLY

DO NOT REMOVE FROM BINDER

DECLASSIFIED per SEC 3.4 E.O. 12958
by Director, NSA/Chief, CSS
[Signature] date *27 Oct 98*

IT

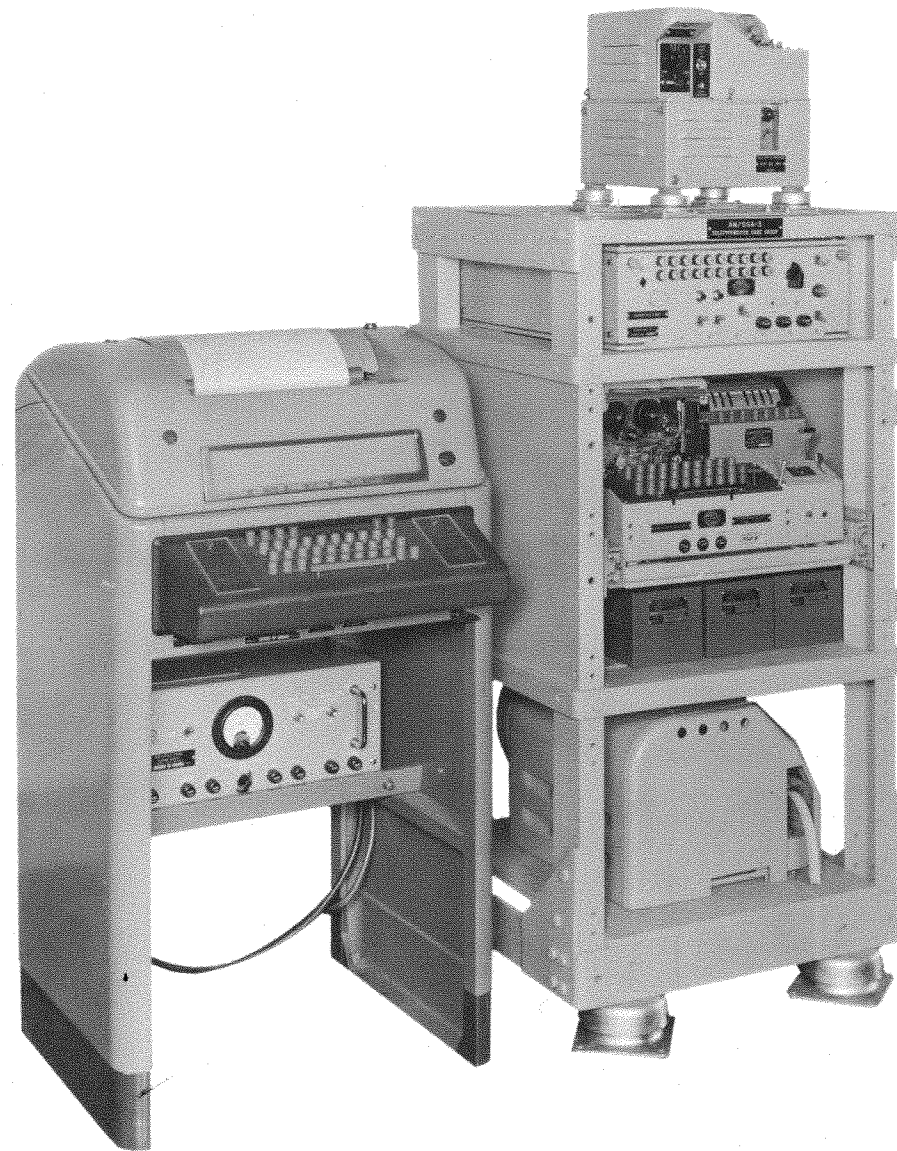
ORIGINAL
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AN/SGA-3

AN/SGA-3 (RACK MOUNTED)

CONFIDENTIAL

CSP 6620A



CONFIDENTIAL

ORIGINAL

DESCRIPTION	<p>A CONFIGURATION OF TELETYPEWRITER AND ANCILLARY EQUIPMENT DESIGNED EXPRESSLY FOR SHIPBOARD USE TO PROVIDE FOR AUTOMATIC OFF-LINE ENCRYPTION AND DECRYPTION OF TELETYPE TRAFFIC. THE CRYPTOGRAPHIC KEYING VARIABLES ARE DETERMINED BY THE SETTING OF THE ROTOR MAZE OF THE ASSOCIATED CIPHER MACHINE. PERFORATED TAPE PREVIOUSLY PREPARED FROM INCOMING RADIO TELETYPEWRITER OR CW CIRCUITS IS FED INTO THE TAPE READER WHICH ACTUATES THE PRE-SET CIPHER MACHINE. OUTPUT OF THE CIPHER MACHINE IS CONVERTED INTO TELETYPEWRITER CODE SIGNALS BY THE CODE CONVERTER WHOSE OUTPUT PROVIDES PULSES WHICH ARE USED TO PRODUCE A PAGE COPY OR A REPERFORATED TAPE OR BOTH. THE SPEED OF OPERATION IS 50 BAUD.</p> <p>THE COMPLETE CONFIGURATION CONSISTS OF THE FOLLOWING COMPONENTS:</p> <table border="0" data-bbox="564 438 2284 600"> <tr> <td>1 - HL-1B (TAPE READER)</td> <td>ASSOCIATED CIPHER MACHINE:</td> </tr> <tr> <td>1 - HL-2 (CODE CONVERTER)</td> <td>1 - KL-47 (LITERAL CIPHER MACHINE)</td> </tr> <tr> <td>1 - TT-159/UG (MODEL 14 TYPING REPERFORATOR)</td> <td></td> </tr> <tr> <td>1 - TT-234/SGA-3 (MODEL 28 PAGE PRINTER)</td> <td></td> </tr> <tr> <td>1 - PP-1767/UG (POWER SUPPLY)</td> <td></td> </tr> </table>								1 - HL-1B (TAPE READER)	ASSOCIATED CIPHER MACHINE:	1 - HL-2 (CODE CONVERTER)	1 - KL-47 (LITERAL CIPHER MACHINE)	1 - TT-159/UG (MODEL 14 TYPING REPERFORATOR)		1 - TT-234/SGA-3 (MODEL 28 PAGE PRINTER)		1 - PP-1767/UG (POWER SUPPLY)	
1 - HL-1B (TAPE READER)	ASSOCIATED CIPHER MACHINE:																	
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1 - PP-1767/UG (POWER SUPPLY)																		
STATUS	APPROVED FOR SERVICE USE (OPNAVINST 02651,12 OF 5 FEB 1957 REFERS)				SPARE PARTS SUPPORT - ESO													
TRAINING	A 5 WEEK COURSE IS CONDUCTED AT CRF PORTSMOUTH AND MARE ISLAND. COURSE INCLUDES KL-47, HL-1, HL-2 AND AN/SGA-3.																	
CRYPTOSYSTEM	ADONIS/POLLUX (DETERMINED BY ASSOCIATED CIPHER MACHINE.)																	
CLASSIFICATION	<p>EQUIPMENT: WITHOUT ASSOCIATED CIPHER MACHINE - UNCLASSIFIED WITH KL-47 - CONFIDENTIAL-CRYPTO</p> <p>KEYING MATERIAL: ALL CLASSIFICATIONS</p> <p>TRAFFIC: ALL CLASSIFICATIONS</p>																	
PUBLICATIONS	<p>MAINTENANCE: HL-1B: AFSAG-1207, AMSP 509 (BOTH CONFIDENTIAL-CRYPTO) HL-2: KAM-44 (FOR OFFICIAL USE ONLY)</p> <p>OPERATING: HL-1B: AMSP 509, KAO-40 (BOTH CONFIDENTIAL-CRYPTO) HL-2: KAO-54 (CONFIDENTIAL-CRYPTO)</p>				NOTE - THERE ARE NO PUBLICATIONS COVERING THE AN/SGA-3 CONFIGURATION AS A WHOLE.													
PROCUREMENT	SEE PAGES PERTAINING TO COMPONENT EQUIPMENTS																	
PHYSICAL CHARACTERISCS	COMPONENT	HEIGHT	WIDTH	DEPTH	WEIGHT	VOLTAGE	POWER	REMARKS										
	HL-1B	11 1/2 IN.	10 3/8 IN.	10 1/2 IN.	29 1/2 LBS.	115 (60 CPS)	300 WATTS	INSTALLATION PLANS RE 67D22138 AND RE 67D2139 PROVIDE FOR SHELF MOUNTING OF THE HL-2 AND SECURING THE CRYPTO DEVICE IN A TYPE 8 SAFELOCKER.										
	HL-2	6 1/4 IN.	15 IN.	20 7/8 IN.	62 LBS.		200 WATTS											
	TT-159/UG	12 3/4 IN.	18 IN.	21 1/2 IN.	70 LBS.		125 WATTS											
	TT-234/SGA-3	40 1/2 IN.	20 1/2 IN.	18 1/2 IN.	120 LBS.		65 WATTS											
	PP-1767/UG	7 IN.	16 1/2 IN.	6 1/2 IN.	32 LBS.		230 WATTS											
	KL-47	11 1/4 IN.	14 1/4 IN.	10 1/2 IN.	50 LBS.		350 WATTS											
	TOTAL				363 1/2 LBS.		1270 WATTS											

