



PRODUCTION
MODEL

SECRET

CSP 6620A

DESCRIPTION	A COMPLEX ELECTRONIC CRYPTOSECURITY EQUIPMENT WHICH PROVIDES FOR FULL DUPLEX SPEECH SECURITY OVER LANDLINES OR LONG-DISTANCE HF RADIO CIRCUITS OF THE FLEET COMMANDERS OPERATIONS VOICE NET. ALTERNATELY, IT CAN PROVIDE FROM ONE TO FIVE FULL DUPLEX TELETYPEWRITER CHANNELS OR ONE FULL DUPLEX FACSIMILE CHANNEL. TELETYPEWRITER INPUT IS FROM ANY STANDARD TELETYPEWRITER OPERATION AT 45.5 OR 75 BAUD. FACSIMILE INPUT IS FROM THE STANDARD FACSIMILE TRANSCEIVER (AN/TXC-2). VOICE INPUT IS FROM A SPECIAL HANDSET UP TO SIX OF WHICH MAY BE USED WITH THE EQUIPMENT. THE VOCODER HAS EIGHT SPECTRUM CHANNELS AND ONE PITCH CHANNEL. ITS OUTPUT OF AM PULSES IS TIME-MULTIPLEXED AND DIGITALIZED INTO AN 8 LEVEL BINARY CODE AT 1500 BAUD. THE CRYPTO UNIT IS AN ELECTRO-MECHANICAL GEARED TIMING MECHANISM (GTM) USING A PHOTOELECTRIC SYSTEM WITH SHADOW-MASK KEY DISKS. ONE SPARE GTM IS PROVIDED WITH EACH KO-6A INSTALLATION. THE SELF-CONTAINED 1500 BAUD FREQUENCY DIVISION MULTIPLEX TRANSMISSION SYSTEM CONSISTS OF SIX 250 BAUD FREQUENCY SHIFT KEY INFORMATION CHANNELS AND ONE SYNC CHANNEL. THE REQUIRED BANDWIDTH IS 3 KC.														
STATUS	IN USE. PRESENT PLANNING IS TO REPLACE ALL PRESENT KO-6A INSTALLATIONS WITH HY-2/KG-13 SECURE VOICE COMBINATIONS AS SOON AS THESE NEW EQUIPMENTS BECOME AVAILABLE. (SEE PAGE 8-3)														
TRAINING	FORMAL MAINTENANCE TRAINING IS MANDATORY. SCHOOL CONDUCTED AT LACKLAND AFB. (NAVPERS 91769,D REFERS) EACH KO-6A REQUIRES 4 TRAINED OPERATORS (WHEN 2 EQUIPMENTS ARE COLOCATED, 6 OPERATORS ARE SUFFICIENT.)														
CRYPTOSYSTEM	PHOEBE (CRYPTOPERIOD - 8 HOURS)														
CLASSIFICATION	EQUIPMENT: SECRET-CRYPTO (SECRET-CRYPTO CLEARANCE IS REQUIRED FOR BOTH EXTERNAL AND INTERNAL VIEWING) KEYING MATERIAL: SECRET-CRYPTO TRAFFIC: ALL CLASSIFICATIONS (FOR TOP SECRET AND SPECIAL CATEGORY TRAFFIC CSPM 1C, 1-50 REFERS)														
PUBLICATIONS	MAINTENANCE: KAM-27, KAM-28, KAM-29 (ALL SECRET-CRYPTO) OPERATION: KAO-10 (SECRET-CRYPTO)														
PROCUREMENT (COST IN THOUSANDS)	UNIT COST	PAST		FY 1963		FY 1964		FY 1965		FY 1966		FUTURE		TOTAL	
	\$50,000	QTY	AMOUNT	QTY	AMOUNT	QTY	AMOUNT	QTY	AMOUNT	QTY	AMOUNT	QTY	AMOUNT	QTY	AMOUNT
		26	950											26	950
PHYSICAL CHARACTERISTICS (CONSISTS OF SIX UNITS)	HEIGHT	WIDTH		DEPTH		WEIGHT		VOLTAGE		POWER		REMARKS			
	33 1/2 IN. EACH UNIT	26 IN. EACH UNIT		17 1/2 IN. EACH UNIT		2429 LBS. TOTAL		115 (60 CPS)		3500 WATTS		MOUNTING CABINETS ARE PROVIDED SUITABLE FOR DECK MOUNTING WITH 2 UNITS STACKED IN EACH OF 3 BANKS.			
TEST EQUIPMENT (REQUIRED ON FULL TIME BASIS)	OSCILLOSCOPE, DUMONT 304A/3000 OR OS-46/U (MODIFIED FOR DUAL INPUT) OR HEWLETT-PACKARD MODEL 150A (AN/USM-105(V)) AUDIO OSCILLATOR, HEWLETT-PACKARD 2001 OR HP-200AB. TS-382A/U SERIES EQUIP. VACUUM TUBE VOLTMETER, RCA WV-97A OR AN/USM-34. AC ELECTRONIC VOLTMETER, BALLANTINE MODEL 300B OR ME-74/U MULTIMETER, SIMPSON MODEL 260 OR AN/PSM-4A. (ME-6/U) BERKELY EPUT MODEL 554N OR FR-67/U														
	NOTE: A TOTAL OF 30 KO-6A's ARE IN USE WITHIN THE NAVY. 2 OF THESE ARE ON LOAN FROM THE ARMY, 1 IS ON LOAN FROM THE AIR FORCE AND 1 HAS BEEN SUPPLIED BY NSA.														

SECRET

11-9

CORRECTED TO 5/29/62

ORIGINAL

