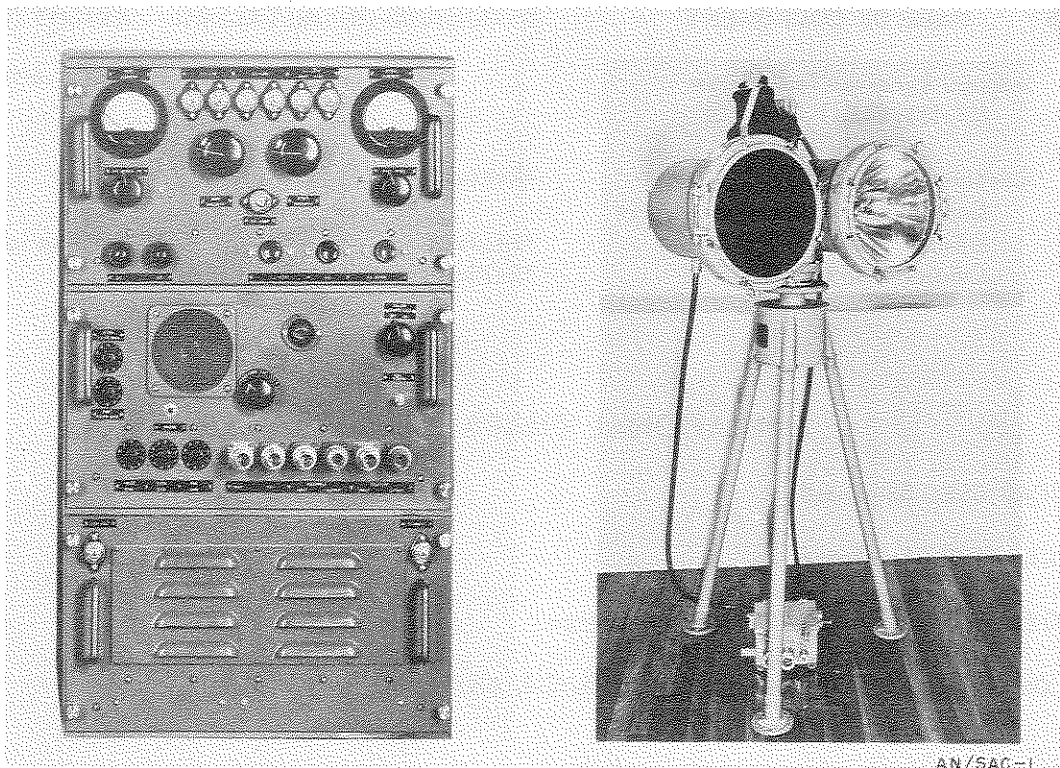


STATUS: Substitute Standard
CLASSIFICATION OF EQUIPMENT: Restricted
USING SERVICE: Navy
DATE OF THIS SHEET: 15 May 52

AN/SAC-1

INFRARED COMMUNICATION SET



Infrared Communication Set AN/SAC-1 is a transmitting-receiving equipment for use at night during periods of radio silence in effecting a-m (voice, cw) soundless, invisible communication between ships by means of a beam of invisible infrared light.

The equipment employs two transmitter-receivers, one on each side of the ship, to obtain full coverage without interference from the ship's superstructure. Only one transmitter-receiver is used at a time. An operator is required to train the transmitter-receiver in use on the ship with which communication is desired. Thus, to establish communication, it is necessary for each ship to know the approximate direction of the other. The operator at the transmitter-receiver can monitor the incoming signal, enabling him to keep the equipment properly directed. Additional facilities are provided for remote transmission and reception through use of a handset.

A minimum of two operators is required to operate this equipment.

AN/SAC-1	INSTRUCTION LITERATURE: NavShips 900,981
	CLASSIFICATION OF EQUIPMENT: Restricted
	USING SERVICE: Navy
INFRARED COMMUNICATION SET	DATE OF THIS SHEET: 15 May 52

MAJOR COMPONENTS

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
2	Infrared Receiver-Transmitter RT-135/SAC-1	Not Available	Not Available
1	Console OA-70/SAC-1 Containing: Resistor Assembly	48x24x20	500
	MX-827/SAC-1	12x25x24	Not Available
	Control C-469/SAC-1	12x25x24	" "

OPERATIONAL CHARACTERISTICS

TACTICAL USE: Shipboard.

INSTALLATION: Shipborne.

APPROXIMATE RANGE (IN MILES): Short range.

CAN COMMUNICATE WITH: AN/PAR-1, AN/SAC-1, AN/SAR-1, AN/SAR-4

TECHNICAL CHARACTERISTICS

WAVELENGTH RANGE: 0.8 — 2.0 microns.

TYPE MODULATION: Am infrared.

TYPE OF SIGNAL: Voice, cw.

POWER OUTPUT: 100 w.

POWER REQUIREMENTS: 1320 w, 110 v dc and 110 v, 60 cyc, 1 phase.

PHYSICAL CHARACTERISTICS

Information on Infrared Communication Set AN/SAC-1 not available.