

STATUS: Standard

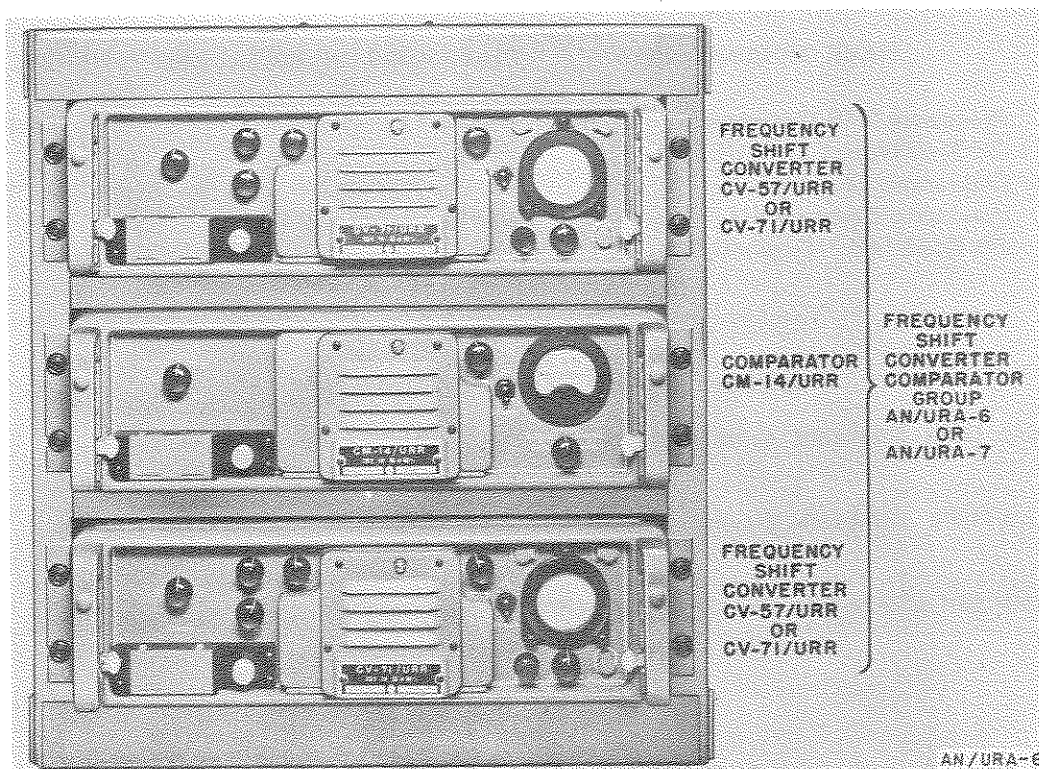
CLASSIFICATION OF EQUIPMENT: Restricted

USING SERVICE: Navy

DATE OF THIS SHEET: 9 May 52

**AN/URA-6, -7**

FREQUENCY SHIFT CONVERTER-COMPARATOR GROUP



Frequency Shift Converter-Comparator Groups AN/URA-6 and AN/URA-7 are dual diversity equipments designed for demodulating frequency-shift keyed radio telegraph signals (as derived from the i-f circuits of diversity radio receivers) to provide keying facilities for teletypewriters, printers, or other similar automatic recording devices.

Keying speeds are possible up to 100-dot cps; corresponding to four channel multiplex (100 wpm) each channel.

Both equipments are intended for table mounting, but the converter and comparator units may be removed and installed in a standard relay rack.

Typical companion receivers, for the AN/URA-6 are Radio Receiving Equipments RBB and RBC, and Diversity Radio Receiving Equipment of the RDM Series.

For the AN/URA-7, Diversity Radio Receiving Equipments RBP and RCP are satisfactory; any receiver having good stability and operating in correct frequency range can be used with these converters.

**AN/URA-6,-7**

INSTRUCTION LITERATURE:

NavShips 91355

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**MAJOR COMPONENTS**

QUANT	NAME OF COMPONENT	DIMENSIONS (IN) INSTALLED	WEIGHT (LBS)
2	Frequency Shift Converter CV-57/URR or CV-71/URR	5-1/8 x 19 x 15-1/4	Not Available
1	Comparator CM-14/URR	5-1/8 x 19 x 15-1/4	" "
2	Panoramic Coupling Kit CN-10563 (AN/URA-6 only)	4-5/16 x 1-7/8 x 3-3/16	" "

**OPERATIONAL CHARACTERISTICS**

TACTICAL USE: Shipboard, shore stations.

INSTALLATION: Shipborne, ground.

CAN COMMUNICATE WITH: This is signal modifying equipment which operates with primary communication equipment.

**TECHNICAL CHARACTERISTICS**FREQUENCY RANGE IN MEGACYCLES: AN/URA-6: 395 — 470 kc.  
AN/URA-7: 50 kc.

TYPE MODULATION: Fm.

TYPE OF SIGNAL: Frequency-shift keying.

POWER OUTPUT: Electron tube keying of 60 mc loop.  
Tone: 12 mw into 600 ohm load.

POWER REQUIREMENTS: 240 w, 105 — 125 v, 60 cyc, 1 phase, ac.

**PHYSICAL CHARACTERISTICS**

Frequency Shift Converter-Comparator Group AN/URA-6,-7 measure 21-3/4 x 20-1/4 x 17-5/32 inches, volume 5.8 cu ft. Packed for domestic shipment: total volume 8.25 cu ft.