

Installed in medium and heavy bombers, Panoramic Adaptor AN/APA-10 is a universal adapter for use with Radio Receiving Set AN/ARR-5, Radio Receiving Equipment AN/ARR-7, Receiving Equipment AN/APR-1, Radio Receiving Equipment AN/APR-4, or other receivers having similar IF frequencies. In addition, it is a complete airborne oscilloscope with all required sweep circuits incorporated.

With this adapter in use, all signals adjacent to the signal to which the receiver is tuned are presented on a panoramic spectrum in which received signals are shown as vertical pips on a cathode ray tube, the horizontal axis of which is calibrated in frequencies. The bands presented are: 100 kc wide with AN/ARR-7, 1,000 kc wide with AN/ARR-5, and 2 mc. wide with AN/APR-4 and similar receivers.

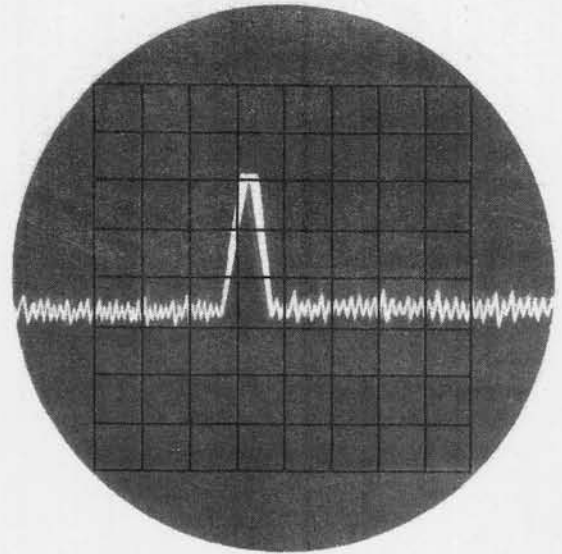
In operation, each receiver is connected to Panoramic Adaptor AN/APA-10 by a cable. Switching one receiver to another is effected by a switch on the panel which may also be used to switch to the "oscillograph" mode of operation.

The equipment is capable of analyzing enemy signals and determining if they are AM, FM or CW. Since the horizontal axis of the cathode ray tube is calibrated, the frequency of the enemy signals may also be determined. With such information available, proper counter measures, such as "spot" or "bar-rage" jamming may be employed.

Power requirements of the adaptor are 140 watts input from an a.c. power source of 80-115 volts when the frequency is maintained within the limits of 400 to 2600 c.p.s.

Test equipment required for maintenance includes Signal Generator I-72 and Oscilloscope RCA Type 158.

Production of the equipment was started in May 1944. Army Supply Program requirements as of 30 April 1944 were 2,060 for the calendar year 1944.



Enemy radar frequencies are analyzed and determined by position and/or size of pip.

POWER INPUT	140 WATTS
TYPE OF SIGNAL	AM; FM; CW

TUBE COMPLEMENT			
NO.	TYPE	NO.	TYPE
8	6AK5	3	6AG5
4	6SN7GT	3	VR/150/30
2	5R4GY	1	3BP1
2	6AG5		



Indicator ID-60/APA-10

PANORAMIC ADAPTOR AN / APA - 10

TOTAL WEIGHT 50 LBS.

Component	Nomenclature	Size	Weight
Indicator	ID-60/APA-10	7 5/8" x 10 1/8" x 21 3/4"	37 Lb.
Mounting Base	MT-171/U	2 1/4" x 10 1/8" x 22 "	3 1/4 Lb
Cord	CG-53/AP (2 each)		
Cord	CG-113/AP	Length 2 1/2'	
Cord	CD-800 (2 each)	Length 20 "	
Cord	CD-800 (1 each)	Length 30"	

and includes, cords, cordage, adapters, misc. plugs and cables

UNCLASSIFIED