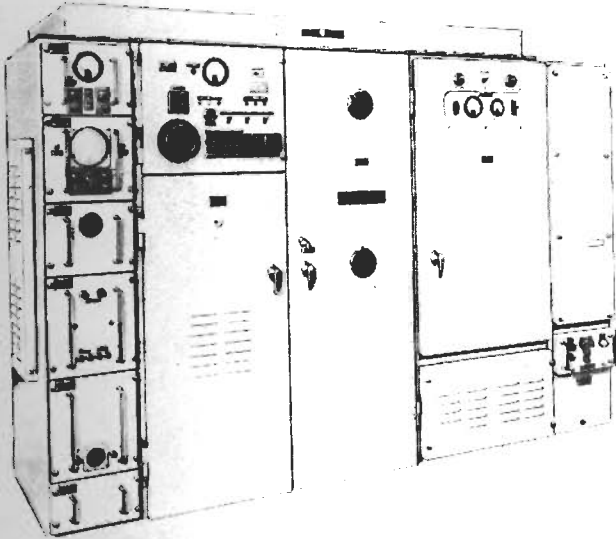


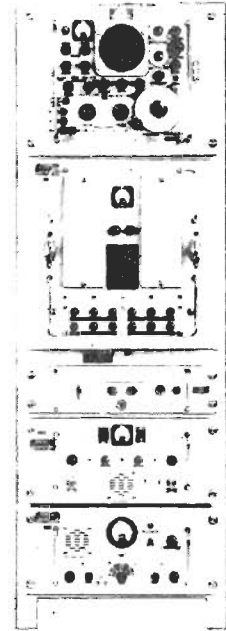
TYPE 965M/P

965M/P

SUMMARY OF DATA



TRANSMITTER - GENERAL



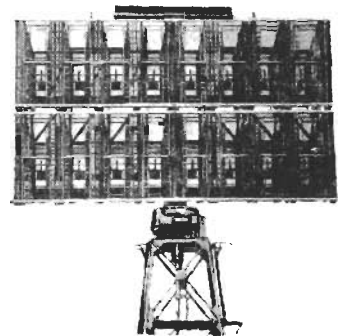
CABINETS (UPPER) POWER AND MONITOR  
(LOWER) RECEIVER AND VIDEO

PURPOSE

Small Ships Aircraft Warning.

BRIEF DESCRIPTION

Type 965M/P is a long range aircraft warning radar designed primarily to be fitted in destroyers and frigates. A common aerial is used for the transmitter and receiver. These two items together with the office display unit (Monitor Unit Design 44) are situated below decks. Up to six remote P.P.I. displays may be fed with the present arrangement of cathode followers. Type 965M/P is also integrated with I.F.F. Mk. 10.



AERIAL OUTFIT AKE(2)

FREQUENCY

216-224 MHz

WAVELENGTH

1.4 metres (approx.).

POWER OUTPUT

450 kW

PULSE REPETITION FREQUENCY

200 or 400 p/s (nominally).

PULSE LENGTH

3.8  $\mu$ s and 10  $\mu$ s

AERIAL ROTATION SPEED

10 r.p.m.

INTERMEDIATE FREQUENCY

13.5 MHz

AERIAL BEAM WIDTH

Horizontal - 12<sup>o</sup>  
Vertical - 40<sup>o</sup>(approx.)

RECEIVER BANDWIDTH

Long Pulse 120 kHz  
Short Pulse 330 kHz

ASSOCIATED AERIAL OUTFIT

Aerial Outfit AKE(1) for 965M.  
Aerial Outfit AKE(2) for 965P.

# RESTRICTED

BR 333(1)

Original

## MAJOR UNITS

AP 172020	Cabinet Design 221
AP 173026	Cabinet Modulator
AP 173027	Cabinet Oscillator
AP 173028	Door Assembly Oscillator
AP 201031	Filter Unit R.F.
AP 173117	Duplexer
AP 173115	Cabinet (Upper)
containing	
AP 172036A	Monitor Unit Design 45 R.F.
AP 173100	Power Supplies Stabilised
AP 173116	Cabinet (Lower)
containing	
AP 172033	Receiver Radar
AP 173037	Amplifier Video

## PHYSICAL DATA

Cabinets Design 221, Modulator and Oscillator, with Weight (loaded) - 3300 lb.  
Blower Assembly, Filter R.F. and Duplexer. Dimensions - 79 $\frac{1}{2}$  in high, 106 $\frac{1}{2}$  in wide, 31 in deep.  
Cabinets (Upper) and (Lower) Weight (loaded) - 600 lb  
Dimensions - 72 in high 22 $\frac{1}{2}$  in wide, 25 in deep.

## POWER REQUIREMENTS

230 V 50/60 Hz 3 phase 3 wire 6 kVA or  
400 V 50/60 Hz 3 phase 4 wire.  
220 V d.c. 1-2 kW or 115 V a.c. (anti-condensation heaters).

## HANDBOOKS

BR 8569 Type 965M/P  
BR 1186 Aerial Outfit AKE(1)  
BR 2342 Aerial Outfit AKE(2)

## ESTABLISHMENT LISTS

E 1295 (965M/P), E 1230 Aerial Outfit AKE(1) and AKE(2).

## INSTALLATION SPECIFICATION

B847 {965M/P}  
B889 {AKE(1)}  
B912 {AKE(2)}