

# TYPE 940

## SUMMARY OF DATA

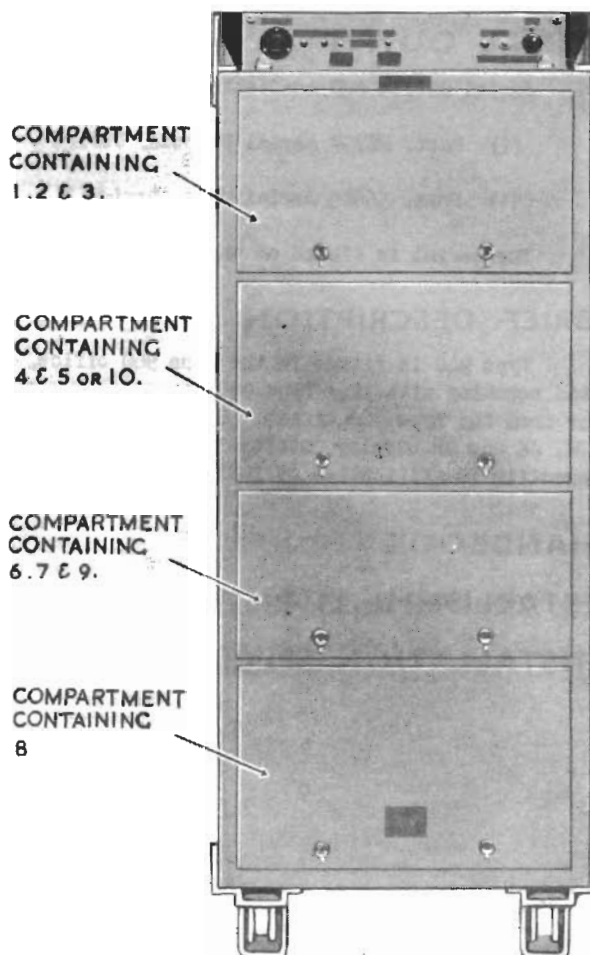
<b>PURPOSE</b>	G-band interrogator fitted in conjunction with Types 960/982 or Types 960/277
<b>FREQUENCY</b>	A spot frequency between 200 - 210 Mc/s (usually 209 Mc/s)
<b>POWER OUTPUT</b>	2 - 10 kW (as operational conditions require)
<b>PULSE REPETITION FREQUENCY</b>	500 or sub-multiple with Type 982 or 277 250 or sub-multiple with Type 960
<b>PULSE LENGTH</b>	4 microseconds
<b>BEAM-WIDTH</b>	60° horizontal (approx.)
<b>INTERMEDIATE FREQUENCY</b>	11.2 Mc/s
<b>RECEIVER BANDWIDTH</b>	4 Mc/s.
<b>POWER REQUIREMENTS AND CONSUMPTION</b>	180V 500 c/s - 5 amps 22V D.C. - 2 amps  Taken from Type 960 Distribution Board.
<b>HEAT DISSIPATION IN OFFICE</b>	900 watts

### MAJOR UNITS

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|--|--|
| 1. Patt. 55759 Wavemeter G300                              |  |
| 2. Patt. W3906 Supply Unit                                 |  |
| 3. Patt. 65766 Responzor Unit, Design 9                    |  |
| 4. Patt. 65076 Mixer Unit, Design 11                       |  |
| 5. Patt. 65077 Mixer Unit, Design 12                       | 9. Patt. 57518 Attenuator Unit, Design 14                      |
| 6. Patt. 56834 Performance Meter, Design 4                 | 10. Patt. 66449 Connection & Socket Stowage Unit               |
| 7. Patt. W6332A Modulator and Mixer Unit, Design D         | 11. Patt. 65350 Cabinet Steel, Design 2                        |
| 8. Patt. 56440 Transmitter and Pre Amplifier Unit Design 4 | 12. Patt. 55764 Control Unit Remote for Mixer Unit Patt. 55763 |

### NOTES

1. Items 1 - 10 inclusive are fitted in Item 11.
2. Item 5 is only required when Type 982 is fitted. When two Types 982 are fitted an additional Item 5 is fitted externally to the Cabinet. When Type 277 is fitted Item 10 is fitted in lieu of Item 5.



TYPE 940 - EXTERIOR VIEW

## PHYSICAL DATA

- Weight of office equipment - 800 lb.
- Weight of Aerial Outfit AQD - 56 lb.
- Dimensions of Cabinet Steel Design 2 - 5' 6" high 2' 4" wide 2' 2" deep
- Space requirements are contained in Type 960 office requirements.

## AERIAL OUTFIT

Aerial Outfit AQD consisting of:-

- (i) Patt. W6757 Aerial Unipole, Design A
- (ii) Patt. 56605 Aerial Unit, Design 11

The aerial is fitted on the Type 960 Aerial Array (Aerial Outfit AQD).

## BRIEF DESCRIPTION

Type 940 is fitted in the Type 960 office, its Aerial Outfit AQD being part of the Type 960 aerial array and rotating with it. Type 940 is normally controlled operationally from the intercept positions in the A.D.R. or from the Type 960 office. Signals are displayed in conjunction with the associated radar signals on the JE, JK and JL display outfits in the controlling positions. The Mark III G I.F.F. system is used for the specific identification of individual aircraft.

## HANDBOOK

B.R. 1962

## ESTABLISHMENT LIST

E.934 (Type 940) E.936 (Aerial Outfit AQD)

## INSTALLATION SPECIFICATION

B.653