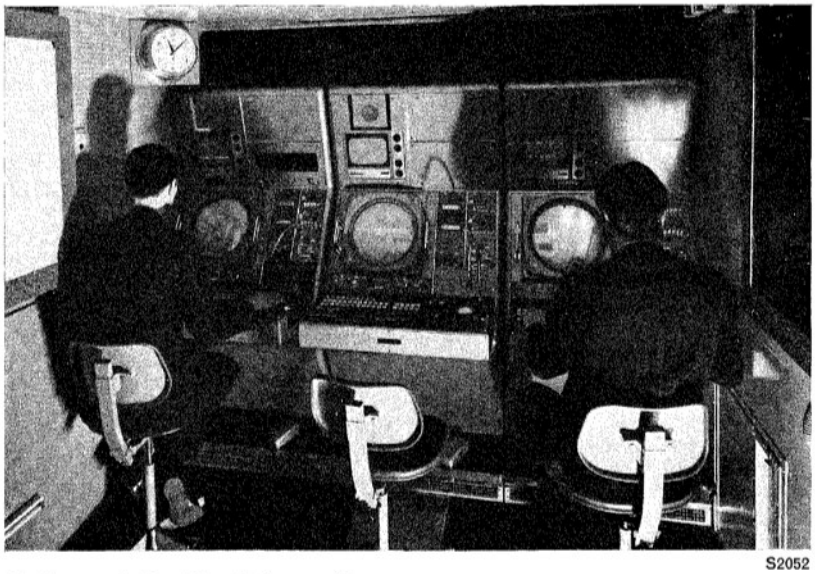
# Marconi Mobile Operations Vehicle

The Marconi Mobile Operations Vehicle (MOV) has been designed for operation as a control centre for Ground Controlled Interceptions. It contains a Data Handling and Display System which processes and displays radar information provided by Mobile Surveillance Radars. Alternatively the MOV may be used as an emergency and/or maintenance replacement for the Main Operations Centres of a fixed station environment.

The Operations cabin illustrated is built on a Leyland Hippo chassis and contains all the elements required for the data handling and display of a GCI system. The cabin is divided into two compartments, the operations end containing six operating positions, three control positions, track allocator and two tracking positions. The equipment section houses all the display back-up equipment, the computer, and the power connection switchboards.



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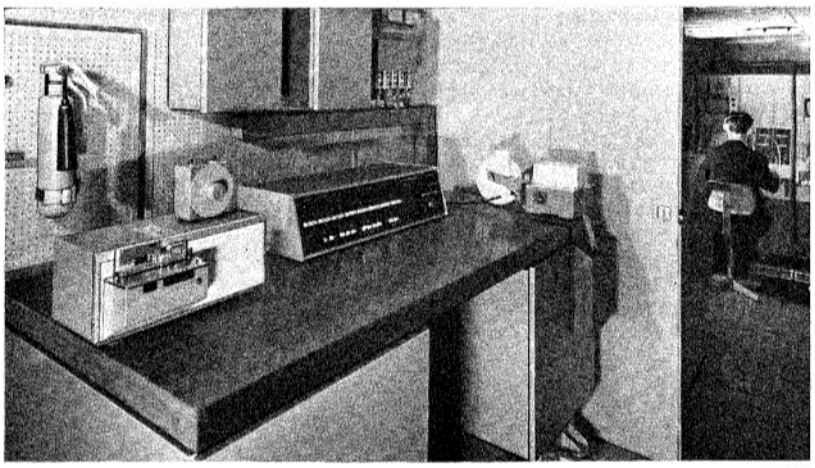
*The three control positions in the operation area*



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*Myriad I computer in the equipment area*

The control positions each comprise a functionally designed console containing an S 3000 high definition display with a tabular display positioned above. All the controls for data processing are contained on the control desk beneath the PPI display. Similarly each tracking position comprises a functionally designed console with the requisite displays and controls.

The Data Handling element is based on the powerful Myriad I computer. The computer has a 16000 word store and is complete with tape reading equipment etc. It controls the various peripheral and input/output devices used in the processing of the relevant data.

The wealth of Marconi Radar development and engineering techniques enables customers' special mobile installation requirements to be planned, produced and installed with efficiency and confidence.

A typical operational application is postulated as follows:

Aircraft flying within the radar cover will be detected, given track identities and labels and classified as unidentified or friendly. This track labelling is achieved by the use of a computer which sorts and stores the data fed into it and when a radar target has been identified as hostile the computer will use the stored data to calculate the flight profile for a fighter aircraft to carry out an interception. From the computer, selected information on aircraft tracks can be passed over radio links to adjacent Operations Centres and to Air Defence Headquarters where information from all centres can be assembled, sorted and displayed as an overall picture of the air defence situation over the territories involved.

It is stressed that this is only one way in which this typical configuration can be used. The general purpose nature of the equipment allows great flexibility, and the Marconi Company welcome the opportunity to rearrange the equipment and provide computer programs to meet specific customer requirements.

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