

DISPLAY SYTEM JZP

JZP

SUMMARY OF DATA

PURPOSE

The system provides a display of real time radar information used for target detection, manual tracking or supervision of the auto track facility, and a display of synthetic data from information stored within the associated computer for purposes of threat evaluation and weapon assignment.

BRIEF DESCRIPTION

Display System JZP is the display equipment associated with the Data Processing System DAC used in Action Data Automated Weapon System Mk 2 (ADAWS2). The system consists of two Display Central Processing Equipments (DCE) cabinets and a series of display consoles. Radar data provided from the ship fitted sensor systems and synthetic data provided by the sensors or data links from other ships and sources are processed by the DCE's and routed to three types of display known as Labelled Plan Display (LPD), Tote Display and Tactical Display. The LPD displays information from both radar and synthetic data whilst the Tote Display, displays information from synthetic data only. The Tactical Display combines the capabilities of both the LPD and Tote Display, and provides the track information on large horizontal screens. Manual injection key boards, Tracker Ball control units and selection panels are available at each display position.

MAJOR UNITS AND PHYSICAL DATA

	Height	Width	Depth	Weight
Processor, Radar	194 cm (76.5 in)	191.8 cm (75.5 in)	68.6 cm (27 in)	1089 kg (2400 lb)
Processor, Synthetic	194 cm (76.5 in)	191.8 cm (75.5 in)	68.6 cm (27 in)	1089 kg (2400 lb)
Display, Tactical	141.6 cm (55.75 in)	134.6 cm (53 in)	182.9 cm (72 in)	479 kg (1056 lb)
LPD	152.4 cm (60 in)	52.1 cm (20.5 in)	132.1 cm (52 in)	284 kg (625 lb)
Display, Tote	152.4 cm (60 in)	52.1 cm (20.5 in)	132.1 cm (52 in)	268 kg (590 lb)

POWER REQUIREMENTS

Tactical Display:-	200 V 400 Hz 3-phase - 1250 VA 115 V 60 Hz 3-phase - 350 VA 115 V 60 Hz 1-phase - 200 VA 50 V dc - 1 A
LPD/Tote Display:-	200 V 400 Hz 3-phase - 1350 VA 115 V 60 Hz 3-phase - 350 VA 115 V 60 Hz 1-phase - 200 VA 50 V dc - 1 A
Radar/Synthetic Processor:-	200 V 400 Hz 3-phase - 1250 VA 115 V 60 Hz 3-phase - 350 VA 115 V 60 Hz 1-phase - 300 VA 50 V dc - 1 A

COOLING AND HEAT DISSIPATION

Each of the cabinets or display assemblies is cooled by passing cooled air over the electronic units. Chilled water at a nominal 7°C is applied to heat exchangers in each assembly which dissipate heat as detailed below for an increase in water temperature of approximately 5°C.

Assembly	Flow Rate	Dissipation
Radar/Synthetic Processor	4.5 litre (1.0 gal)/min	1200 W
Displays	3.4 litre (0.75 gal)/min	900 W

HANDBOOK

BR 2947

ESTABLISHMENT LIST

S 1532

INSTALLATION SPECIFICATION

B 1047