

## **Vistar IM223 Marine Night Vision System**



The Vistar IM223 was developed specifically to meet the exacting requirements of the Hong Kong Marine Department for operation of high-speed passenger ferries at night. Vistar systems have been approved for service in Hong Kong since 1982.

The Vistar IM223 night vision is equipped for a dedicated night vision operator to meet the Hong Kong operating requirements. The main display screen and controls enable the night vision operator to maintain permanent look-out, while a slave display and panning controls are provided for the captain. Markers on both displays clearly indicate the potential collision path and range. The image intensifier unit is fully sealed and protected against the marine environment whilst the camera is fully automatic to respond to fast changing environmental conditions at sea.

Vistar engineers selected image intensification for this application for the following reasons:-

- \* Low lifetime costs – many tubes have run for 10 years without problems.
- \* Display is easy to interpret by operator- what you see is what you get.
- \* Lower initial cost than comparative systems that meet the operating requirements.
- \* Detects typical threats that could damage vessel or cause passenger injuries at sufficient range to enable safe avoiding manoeuvres.

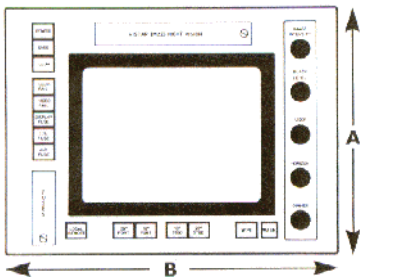
Alternative system configurations are available and with over 100 thermal, image intensifier and dual sensor systems in service world wide, Vistar has the experience to advise on the most cost effective solution to your night vision needs whatever the operating requirements.

# Vistar IM223

## Brief System Specification

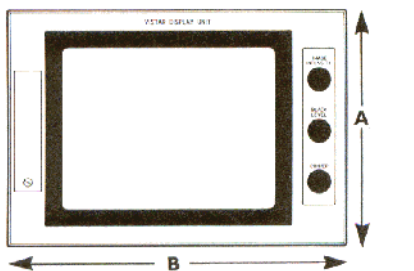
Image intensifier F.O.V.	22° Horizontal. X 16° Vertical.
Panning angle	10°, 20°, 30° Port or Stbd.
Search angle	180° Port or Stbd.
Horizon adjustment	+8° to -8°
Pitch stabilisation	Optional gyroscope unit
Wash wipe facility	Standard
Main display screen	195mm X 145mm
Slave display screen	195mm X 145mm or 145mmX 108mm.
Electronic highlight visor	Standard
Range markers	0.2, 0.1, 0.05NM
Craft heading marker	Standard
Infra red illuminators	4 x 150w or alternatives available.
Operating voltage	Standard 24V DC supply
Intensifier and display consumption	125 watts max
All up system weight	50 Kg
Intensifier operating temperature	-25°C to +45°C
Display operating temperature	0°C to +45°C
System fail indicators	Standard
Illuminated controls	Variable brightness

### Control Panels, Layout and Dimensions



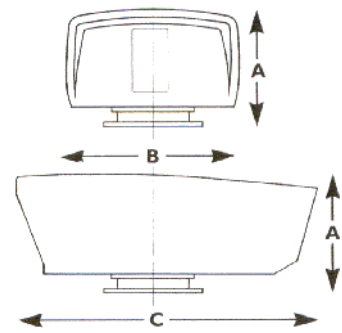
**Intensifier Control Unit**

	A	B	C (depth)
mm	268	360	280



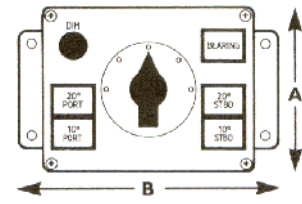
**Vistar Display Unit**

	A	B	C (depth)
mm	215	307	290



**Image Intensifier Unit**

	A	B	C (depth)
mm	300	460	770



**Helmsmans Panning Unit**

	A	B	C (depth)
mm	90	140	78

This document gives only a general description of the products and services offered and shall not form part of any contract. From time to time, changes may be made in the products or the conditions of supply.