

DESCRIPTION:

The Stabilized Marine Viewer is able to provide auxiliary capabilities to onboard navigation equipment by aiding the detection and recognition of floating objects in the marine area surrounding the ship.

The Stabilized Marine Viewer is able to provide manual surveillance operation (by means of a joystick), or to point on an azimuth angle provided by an external radar, through its EO sensors (DLTV camera; IR camera). All these operations can now be carried out during the day or night and in poor visibility conditions, even in the presence of pitch, roll and yaw ship movement, thanks to its sophisticated embedded stabilization device.

This architecture allows objects to be tracked on the sea surface independently of ship movement (roll, pitch, yaw), atmospheric and sea conditions.

Furthermore the Stabilized Marine Viewer is designed to perform additional tasks such as Search and Rescue missions, surveillance, security and navigation aiding in waterways.

The stabilization system provides high performances and comfortable operations with different sea conditions and sustained speed.



Stabilized Marine Viewer

FEATURES

- 320 x 240 Amorphous Silicon Microbolometer detector
- Spectral Response: 8—12 microns
- Joystick control for manual LOS pointing
- Image recording for each sensor by means of a Digital Video Recorder
- Automatic pointing by servo-radar information
- Elevation: -25° to +80°, Traverse: 360°
- Weight : 27kg
- Dimensions: 320 x 460 [mm]



Part Numbers:

Stabilized Marine Viewer 320:

MVS-320-100



DAYLIGHT TV			
TARGET	SIZE (m)	DET. RANGE (Km)	REC. RANGE (Km)
Small vessel	6x8x30	15	5
Boat	2x2.5x6	6	2
Human activity	N.A.	3	1

IR CAMERA			
VISIBILITY CONDITIONS: STANDARD CLEAR			
TARGET	SIZE (m)	DET. RANGE (Km)	REC. RANGE (Km)
Small vessel	6x8x30	8	2.5
Boat	2x2.5x6	3	1
Human activity	N.A.	1.5	0.5

Stabilized Marine Viewer System Specifications		
Day Camera Performance	Detector Type	High Resolution Color CCD
	Spectral Bandwidth	0.4 - 0.7 microns
	Detection Range	See Above based on Target Size
	Resolution	Vertical: Better than 500 lines, horizontal: Better than 700 pixels/line
	Zoom	Continuous
	Iris Adjustment	Automatic
	Field of View	WFOV: 34° x 44° , NFOV: 3.7° x 4.8°
IR Camera Performance	Detector Type	Uncooled Amorphous Silicon Microbolometer
	Spectral Range	8-12 microns
	Resolution	320 x 240 pixels
	Detection Range	See Above based on Target Size
	Warm Up	≤ 60 seconds
	Video Sample Rate	60 Hz
Environmental	Operating Temp	-5°C to +50°C
	Storage Temp	-40°C to +70°C
	Vibration	According to MIL-STD-167-1 type I
	Humidity	95% @ 30°C
	Operating Voltage	220V (50 Hz, 1f) or 115V (60 Hz, 1f) or 24/28V _{DC}
	Power Consumption	200 Watts (nominal)

Authorized Dealer

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