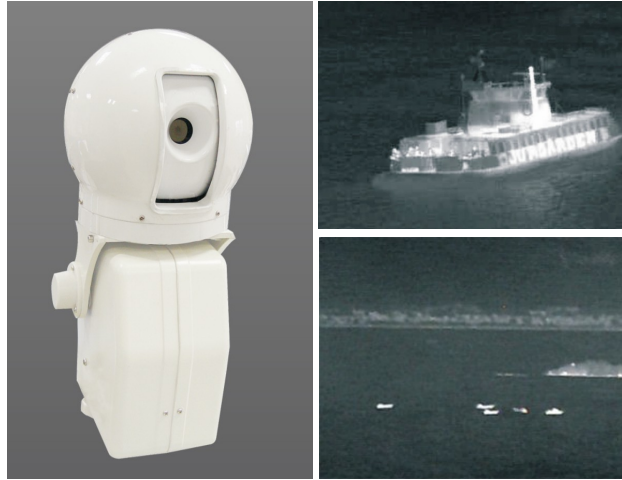


# armstrong optical

## N-Boat Thermal Imaging Navigation assistant



The **N-Boat** system is offered with either a 160x120 or 384x288 pixel sensor with a 25mm lens in a sealed, ruggedised housing. The system has been designed to provide fast, high quality imaging with a wide field of view and is able to detect floating objects, channel markers, piers, other vessels in any weather conditions including dense fog, heavy rain/snow and total darkness.

With the increasing cost of shipping and vessels the **N-Boat** offers additional safety and security and is also able to aid in anti-piracy and maritime rescue environments.

### Imager:

Detector type	Uncooled FPA
Spectral range	8 - 12 $\mu$ m
Sensor size	160x120 or 384x288 pixel
NETD	$\leq 100$ mK/ $\leq 80$ mK

### Optics:

Focal length/ f#	25mm f/1	
Field of view	160x120	384x288
	9° x 7°	22° x 16°

### Image presentation:

Video output	RS170 PAL/NTSC
Brightness/contrast	Auto/manual
Polarity	White hot/ black hot

### Power:

Power supply	9 ~ 15V AC
Power consumption	3W

### Environmental specification:

Operating temperature	-20°C to +60°C
Storage temperature	-40°C to +60°C
Encapsulation	Hermetic sealing

### Physical:

Size	200 x 200mm
Weight	4.8kg (w/o pan/tilt)