

2018

GUARDIAN : KLARION

Non-Lethal Acoustic Area Denial

Information Brochure



C-VIGIL Ltd : marine (CVM)

In
association
with



C-VIGIL Ltd : marine (CVM)
GUARDIAN : SYSTEMS





Un-manned off-shore platforms are by their very nature exposed & vulnerable to intrusions. These unauthorised intrusions are not just a nuisance; they can be very costly in production down-time and lost equipment.

With the use of PIR motion sensors located around the boat landing platform it is possible to detect any unauthorised approach / access to the platform from seaward, once detected the intruder can be driven away using Long Range Acoustic Devices.

The acoustic energy being sufficient to cause actual physical pain and discomfort which only gets worse the closer they get to the rig. Wireless remote control allows maintenance personnel to switch the system on / off at a safe distance.



Non-Lethal Acoustic Area Denial System

solo
lone worker systems

sea-vu
cctv systems

klarion
acoustic area denial

autoguard
intruder detection

thermoguard
remote °c monitoring

elev8tor
lift car indicator

Long Range 50m Wide Angle 30m Detection Perimeter to Detect Any Unauthorised Approaches

- RUGGED CONSTRUCTION
- SEALED TO MINIMUM OF IP65
- NON-LETHAL ACOUSTIC DETERRENT
- 50M X 30M PIR DETECTION ZONE
- SOUND LEVEL (SPL – 149DB @ 1M)
- INSTRUCTIONAL VOICE MESSAGES & WARNING TONES
- MULTIPLE LANGUAGES
- WIRELESS REMOTE CONTROL FOR MAINTENANCE STAFF



LRAD 500X-RE



Strategically placed PIRs detect any unauthorised approaches, which then triggers the Long Range Acoustic Devices (LRADs). High sound power Level transmissions are used to deter further approach.

EQUIPMENT

MCU + BEACON

HOUSING

Connection terminals.
Power supplies & PLC control units.
Wireless remote operation receiver.
LRAD - MP3 players.
515mm x 415mm x 230mm.
Sealed to IP65.

PIRS

4 X PIRS FACING OUTWARD
1 X PIR FACING INWARD

SIP 5030 – 50m x 30m detection range.
Reinforced GRP construction – IP65.
Look down detector forms “creep zone”.
280mm x 247mm x 102mm.

LRADS

4 X FACING OUTWARD - LRAD 500X RE

2,000m effective range.
SPL - 149db @ 1m.
Rugged military tested construction – IP66.
Non-lethal acoustic deterrent.
635mm x 635mm x 305mm.
MP3 players (5) – USB connection for programming.

1 X FACING INWARD - LRAD 100X

600m effective range.
SPL – 137DB @ 1m.
Rugged military tested construction – IP66.
Non-lethal acoustic deterrent.
356mm x 356mm x 165mm.

WIRELESS REMOTE CONTROL

1 X RECEIVER

Functions - On / Off | Alarm reset | Alarm test.

1 X TRANSMITTER

Rugged construction – IP65.
433MHz license free operating frequency.
3 channel transmitter.
Tx: 66mm x 36mm x 25mm.
Rx: 110mm x 85mm x 35mm.

*Long Range
Standoff Perimeter*

*Multiple Languages
& Warning Tones*

*Issue Instructions
Up To 2Km*



solo
lone worker systems

sea-vu
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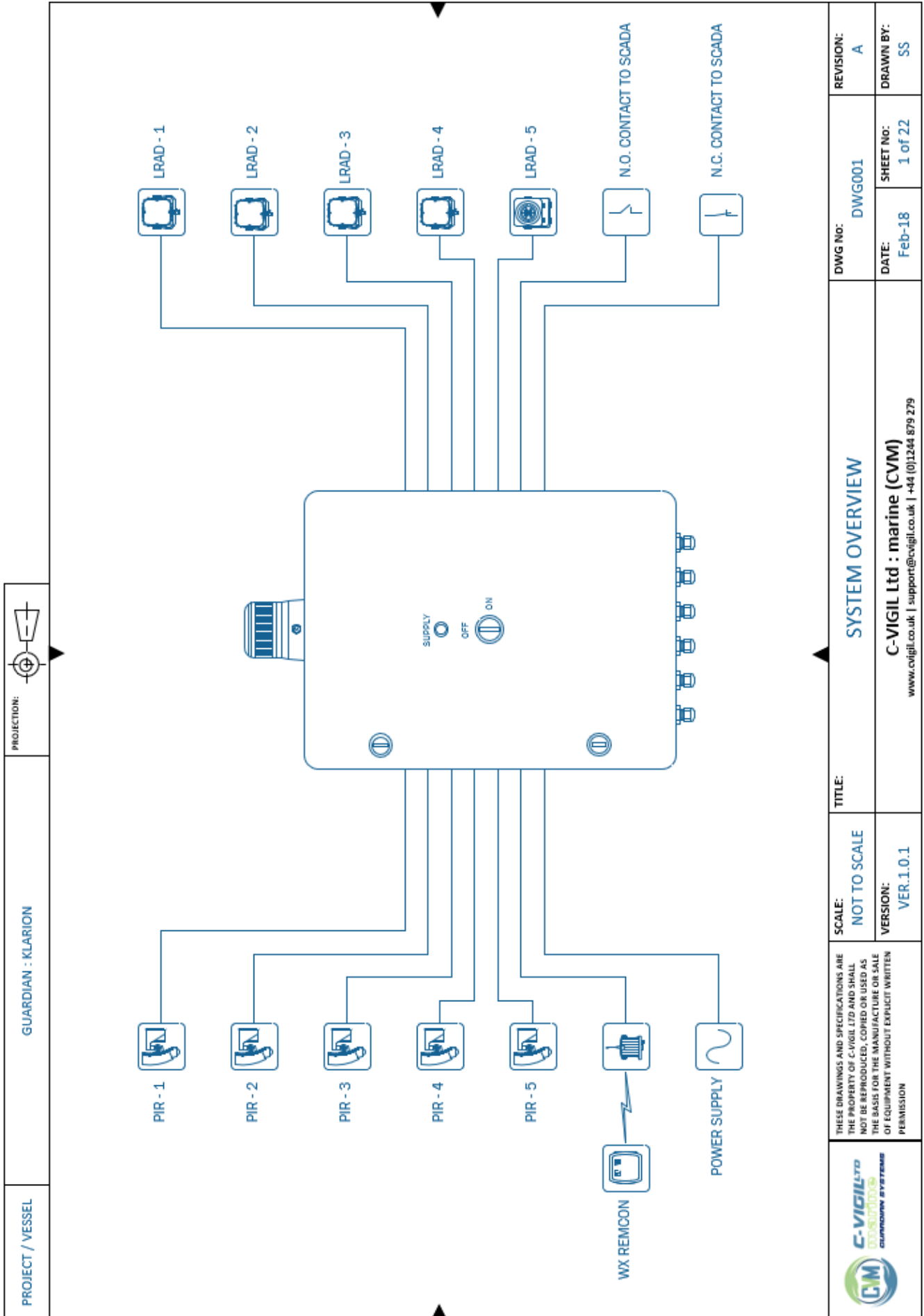
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System Overview



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Outward Facing LRADS	
 <p>LRAD 500X-RE</p>	<ul style="list-style-type: none"> • Powerful, intelligible communications up to 2000 meters • Variable beam width for extended coverage • Instantly create acoustic stand-off perimeter • Rugged military tested construction • All weather use - sealed to IP65 • Low power consumption
Inward Facing LRAD	
 <p>LRAD 100X</p>	<p>Smaller less powerful version of the LRAD 500X - RE.</p> <ul style="list-style-type: none"> • Powerful, intelligible communications up to 600 meters
Long Range Wide Angle PIR Motion Detector	
	<ul style="list-style-type: none"> • 50m x 30m detection range • Intelligent PIR logic with dual "quad optics" • Creep / look down zone detection prevents entry from below detector • Automatic adjustment for ambient light and temperature compensation
Wireless Remote Control	
	<ul style="list-style-type: none"> • 2Km operational range • 868MHz license free frequencies • Sealed to IP68 • High security RF transmission protocol



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GUARDIAN SYSTEMS



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