



SANCHAR
WIRELESS COMMUNICATIONS LTD.

Live Video Transmission System from small ships (troop of ~20) to mother ships for Indian Navy surveillance

MARITIME SURVEILLANCE, IDENTIFICATION & INTERDICTION OPERATION

IDENTIFICATION (VISUAL CONFIRMATION)

Unidentified vessel is monitored and identified using cameras as it approaches by mothership.

APPROACH & BOARD (INTERDICTION)

Search & Rescue / Combat team approaches the vessel for boarding and inspection.

UNIDENTIFIED VESSEL

LONG RANGE CAMERAS

ALL PERSONNEL EQUIPPED WITH

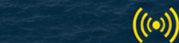
- RF COMMUNICATION DEVICES
- CAMERAS FOR REAL-TIME IDENTIFICATION
- TRAINED FOR BOARDING & INTERDICTION

SEARCH & RESCUE / COMBAT TEAM

4 LIVE VIDEO STREAMING

Live video from the team is streamed to the command ship for real-time situational awareness and decision making.

LIVE FEED



LIVE VIDEO FEED TO COMMAND SHIP

OPERATION FLOW SUMMARY

1. Detect unidentified vessel at long range (10-20 km).
2. Stream live video to command ship.
3. Take appropriate action based on assessment.

Signal Strength Indicator



Receiver

RJ-45 Cable

50 Feet Height from MSL



Signal Strength Indicator



Camera

Transmitter

20 Feet Height from MSL

Video surveillance on naval ships is a critical component of modern maritime security, combining advanced imaging technologies with integrated monitoring systems to protect vessels, crew, and strategic assets.



MAKE IN INDIA



Naval ships operate in complex and often hostile environments, where threats can arise from piracy, terrorism, smuggling, or even insider activity. To address these risks, navies deploy comprehensive video surveillance systems that provide real-time situational awareness across the ship and its surrounding waters. From Baby ships to Mother ship . at a stretch 20 Baby ships can transmit RF video from Baby ship to Mother ships

At the core of these systems are high-definition cameras strategically placed or in the vessel. These include Hi Definition Cameras for continuous monitoring and can be manually controlled to focus on specific targets and allows for rapid response.

Data from surveillance systems is typically routed to a central command center onboard, where trained personnel monitor multiple feeds simultaneously. Footage is often recorded and stored securely for later review, which is essential for investigations, training, and operational analysis.

The System described will be fully tested for MIL STD 810 E/F

Specifications

| General | | |
|-----------------------|---------------------------|--------------|
| Frequency Range | TX & RX | 5.8 Ghz Band |
| Antenna | Single directional | |
| Antenna Impedance | 50Ω | |
| Working temperature | -10°C~+55°C | |
| Protocol & Technology | Digital Technology | |
| Power Supply | 12 VDC±15% | |
| Grounding Method | Negative ground | |
| Weight (Approx.) | Body (with Panel): 1.5 KG | |
| TRANSMITTER | | |
| Power Output | Turbo | 45 mW |
| | | |
| | | |



Receiver



Transmitter

Marketed: Dealer/Distributor