HIZIR | 100-S
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SUBMARINE TORPEDO COUNTERMEASURE SYSTEM

#NavalSystems

HIZIR 100-S is a "soft-kill" submarine torpedo countermeasure system designed to deceive and confuse torpedo threats.

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SUBMARINE TORPEDO COUNTERMEASURE SYSTEM

HIZIR 100-S system collects platform and threat related data from submarine systems to provide the most reliable torpedo countermeasure tactics against torpedoes. According to these tactics, system provides programming and launching of acoustic decoys and jammers from port and/or starboard sides.

While acoustic jammers prevent torpedo from detecting submarine by producing wide frequency band noise, acoustic decoys deceives the torpedo by imitating the submarine.

The Main Functions
- Host Platform Data Reception and Processing
- Threat Data Reception and Processing
- Sonar Data Reception and Processing
- Data Processing
- Advise on Tactical Evasive Maneuver
- Display and Warning
- Launcher Control

System Components
- Computer Based Evaluation Simulator
- Decision Support System
- Outbord Launchers
- Expendable Mobile Acoustic Jammers
- Expendable Mobile Acoustic Decoys

Technical Specifications

Computer Based Evaluation Simulator
- Display of torpedoes, jammers, decoys, surface ships and submarines dynamics
- High fidelity torpedoes, decoys, jammers, submarine and surface ship models modeled by default hydrodynamic, acoustic and physical parameter values
- Platform sonar models for target alert
- Calculation of escape probability by statistical runs
- Language selection (Turkish/English)

Expendable Acoustic Jammers
- Blinding capability
- Programmable
- Compatible with operational depths of the submarine
- Wider frequency band enough to react against all acoustic torpedoes

Expendable Acoustic Decoys
- Self propelled, moving
- Programmable
- Compatible with operational depths of the submarine
- Wider frequency band enough to react against all acoustic torpedoes

Decision Support System
- Launcher control
- Fully integrated with underwater command and control system
- Operator Control Unit
- Operating Modes

Outboard Launchers
- Instant reaction
- Seperate launchers for port and starboard
- Interface with decoys
- Programming of decoys before deployment

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