

IRMARINETECH

Software & Consultancy

2021



IRMARINETECH
Yazılım Danışmanlık

Program

- IRMARINETECH Information
- Products
- Software Solutions
- Projects





IRMARINETECH

Yazılım Danışmanlık



Software Development



Distributor FLIR Systems Sputnik24



Consultancy

- Establish: 2019 (20 years business experience)
- Office at Tulza/Istanbul
- Image processing, digital maps, data transfer solutions
- Electronic systems distributorship
- Marine, Electro Optic Systems, Command and Control Software Consultancy



Little About Me....

- Born in Kocaeli at 1978
- My wife is Navy officer
- Ex-Navy Officer, served 20 years
- Electronic Engineer Bsc, Master degree on Radar, scholarship for PhD from USA Arkansas University
- Served on warship 5 years
- Worked at Naval Air Base
- Worked at Navy Shipyard
- Worked at Navy Supply Chain Center
- Worked at Software Company as Deputy General Manager
- You can find details at my LinkedIn profile





IRMARINETECH
Yazılım Danışmanlık

Abilities

CONSULTANCY

SOFTWARE

**ELECTRONIC
CARD DESIGN
AND REPAIR**

DISTRIBUTOR

**AIRBORNE
ELECTRONICS
REPAIR
INTEGRATION
MAINTENANCE**

INTIGRATION





IRMARINETECH
Yazılım Danışmanlık

Our Team

- Sensor System Group with over 20 years experience in sensors such as Radar, AIS, Sonar
- Electro-Optic System Group with over 5 years experience in Thermal Camera, CCTV Systems
- Software Group with 10 years of experience in Command Control, Image Processing, Data Management, Digital Maps
- Consultancy Group with 10 years experience in solutions such as Port Security, VTS, Critical Facility Security
- Electronic System Design Group with over 20 years of experience in electronic card design, repair and embedded software
- Aviation Group with over 20 years experience in electronic systems of helicopters, airplanes such as radar, electro optics, sonobuoy



Electronic Card Repair



References



TEKNOLOJİ
SAN. ve TİC. LTD. ŞTİ.



GEBZE - İZMİR OTOYOLU
İŞLETME ve BAKIM A.Ş.



IRMARINETECH
Yazılım Danışmanlık

Products

Security

Thermal Cameras

CCTV Systems

Radars

Communication
Systems

Softwares

ExProof Systems

Industrial Switches

Protection
Systems

Maritime

Radars

Thermal Cameras

CCTV Systems

Sonars

Protection System

Softwares

Long Range
Communication

Industrial Switches

Others

Voice Jammers

Oil Spill Detection

Traffic
Management

Fire Detection

Liquid Cooling



Distributorship



- 1.5 Billion Dollar Company
- 147 Million Dollar Research Budget
- Huge product range
- Factory in Portland, Boston, Santa Barbara and Sweden



FLIR Distributor

Government Systems

Land Systems

Maritime Systems

Airborne Systems

Border

Traffic Solutions

Marine

Gimbal Systems

Mobile Systems

Tactical Systems

Security

Thermal Cameras

Daylight Cameras

VMS

Mobile Systems



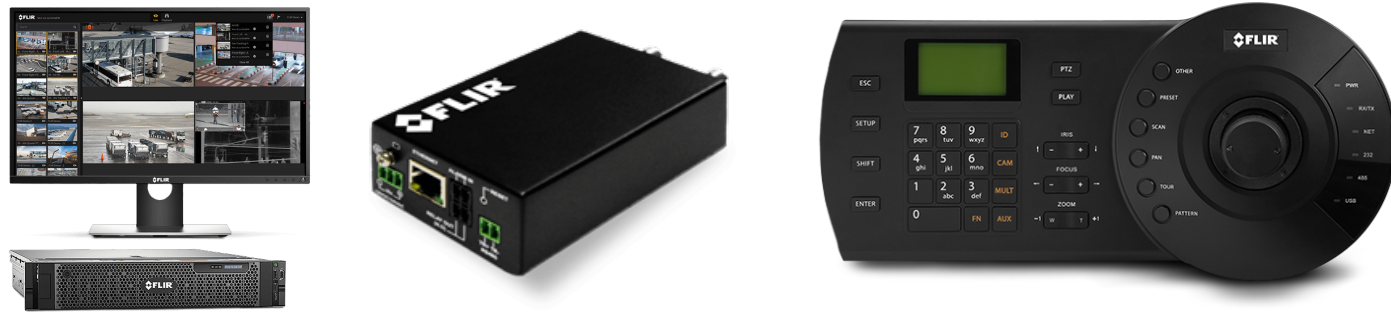
FLIR Products



Thermal Cameras



CCTV Cameras



Servers, Screens and Parts



FLIR Products



Marine Systems



Hand Systems



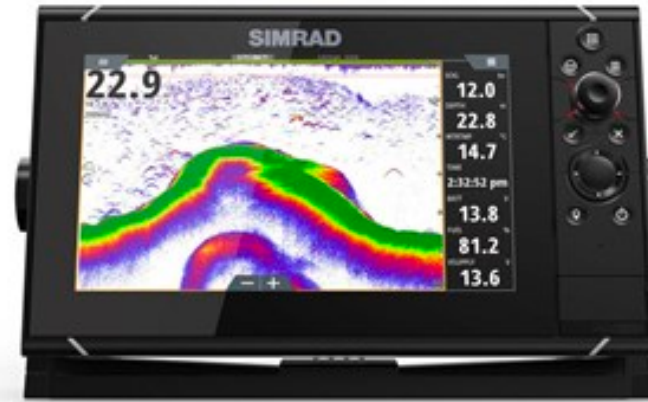
Radars



Distributorship

SIMRAD

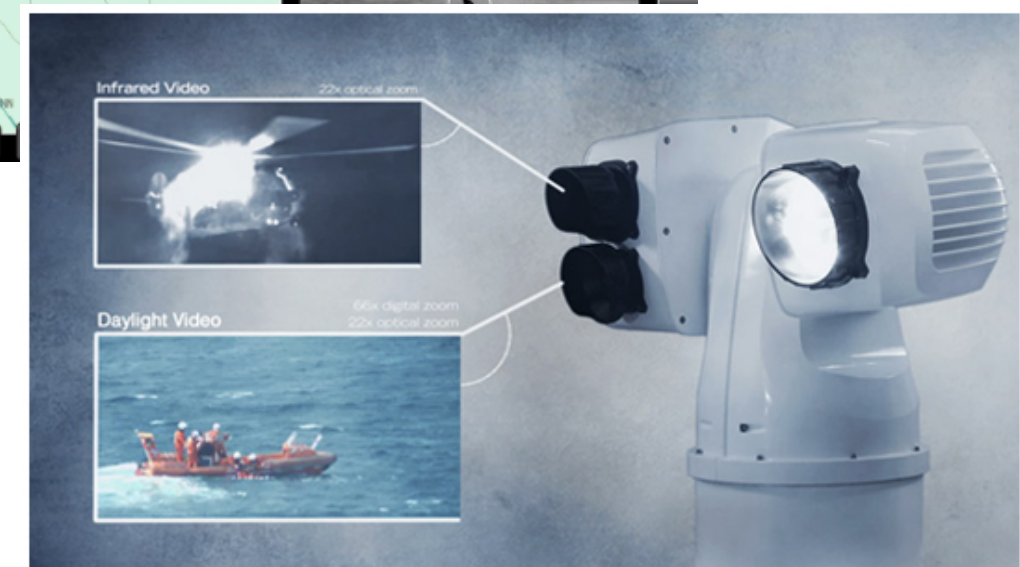
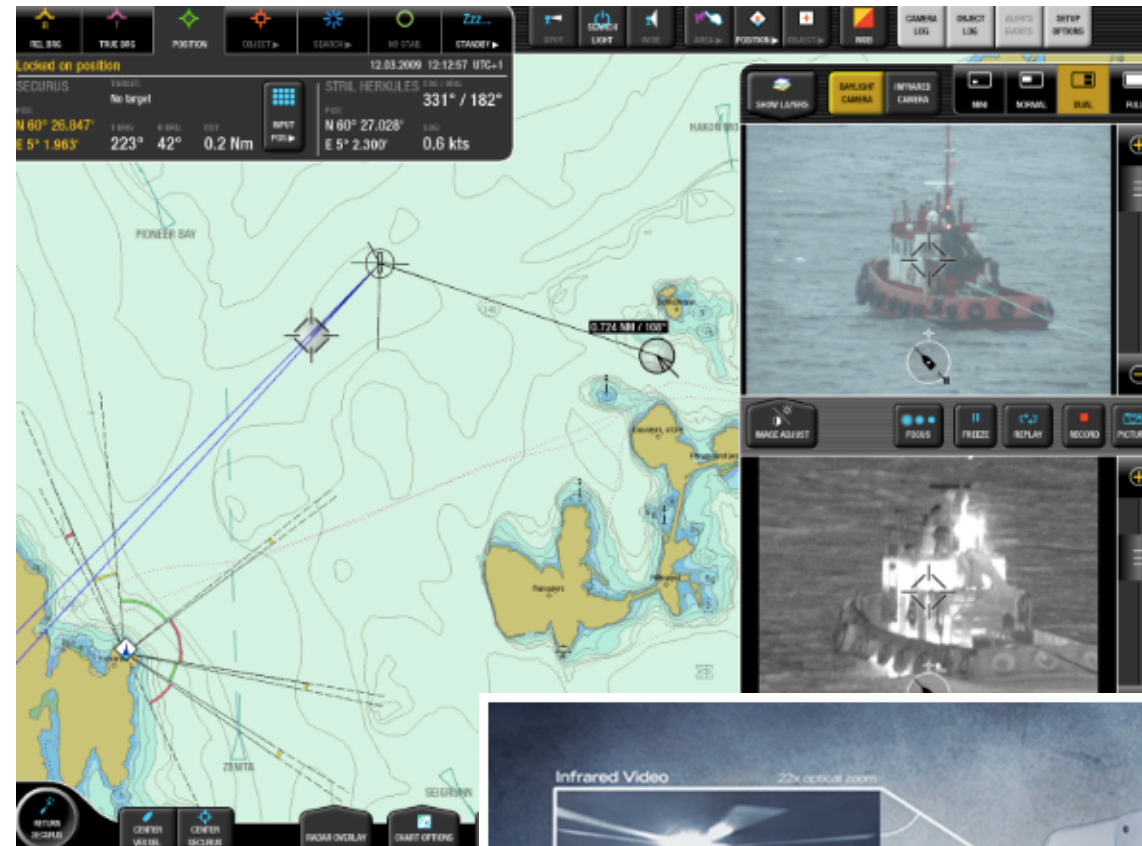
- Navigation systems
- Whole solution for maritime
- Radar, sonar, GPS, AIS systems
- Norwegian Company



Distributorship



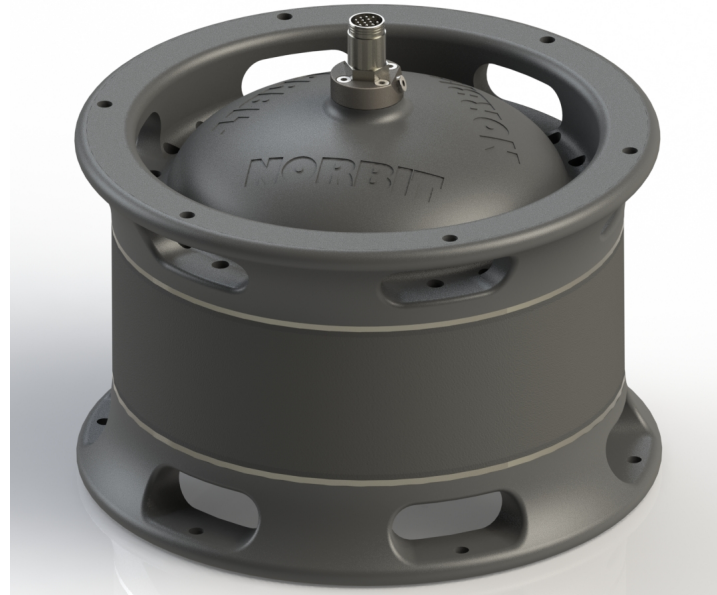
- Norwegian Company
- Expertise on Oil Spill Detection Solutions
- Designed Special Camera for Oil Spill
- Oil Spill Software
- More Than 200 Installations All Around The World



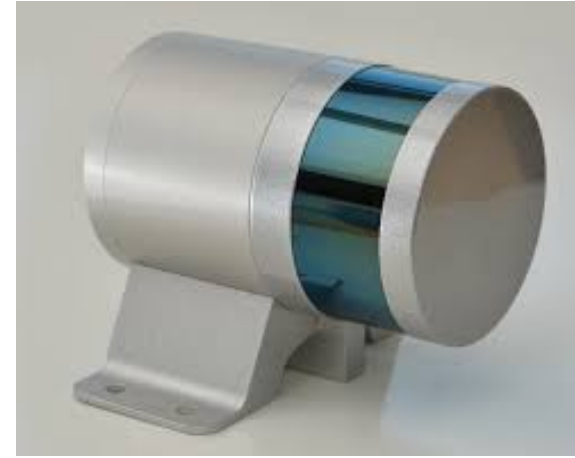
Norbit Products



Sonar



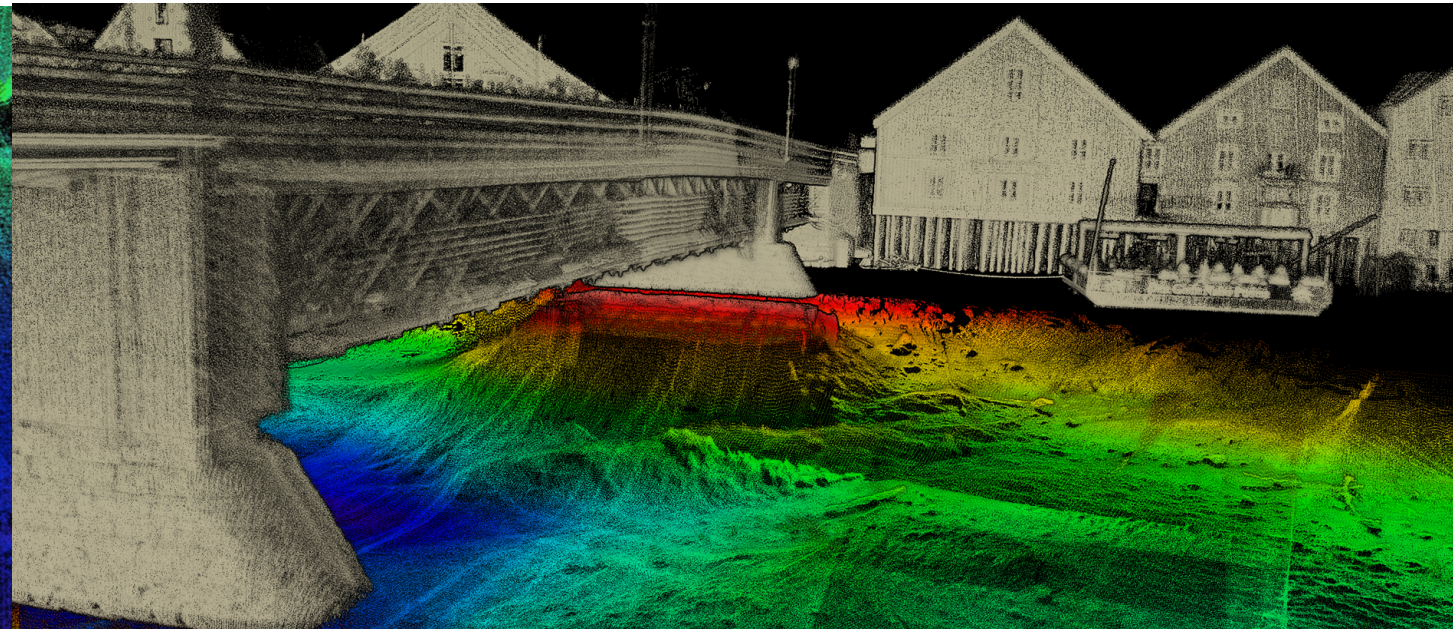
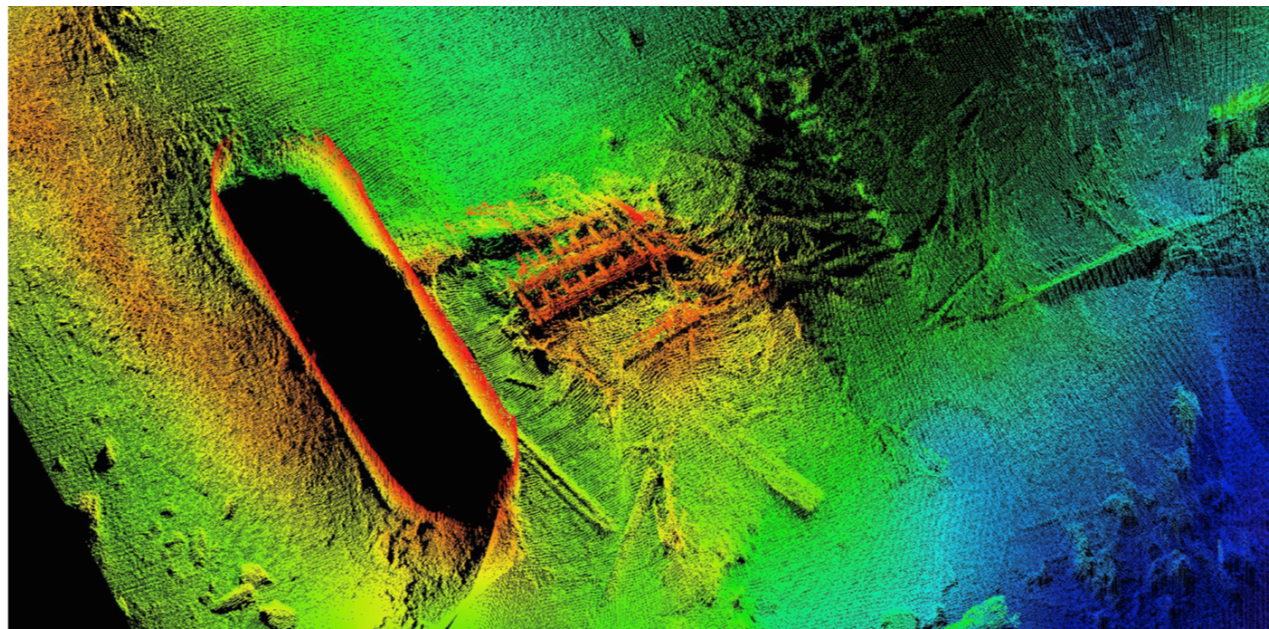
Diver Detection Sonar



LIDAR



Autonomous Boat



Distributorship



- Germany Research Company
- Design experience on antennas
- Research on data transfer
- Factory in Germany



Distributorship



KONGSBERG

- Norwegian Company
- Factory in Norway
- Design experience on antennas
- Research on data transfer
- Secure Long Range RF Communication
- 16 Mbps at 4.9 - 5.9 GHz



Distributorship



- Made in USA
- Expertise on Sound Systems
- Long Range Directed Sound
- 5.5 km Range for directed
- 1.3 km Range for omni



When used on city streets

LRAD is effective for up to three city blocks. Intensity at various distances:

1,640 ft.
90 decibels: As loud as a dog bark

425 ft.
100 decibels: As loud as the front row at a rock concert

160 ft.
110 decibels: As loud as a power saw

65 ft.
120 decibels: Commonly called "threshold of pain." As loud as a Champ Car.

LRAD at 150 dB

Approximate range



LRAD Projects

- Perimeter Security
- Police, Municipalities, long range announcement
- Maritime Security



Distributorship



VOSKER

- Made in Canada
- Picture Transfer with LTE
- No Power, No Wifi needs
- Ready in 3 minutes
- Internal Solar Power
- Rapid and Easy Installation
- No SIM Card Registration
- Use with App, Web



Distrubitorship



- Made in EU
- Ultrasound Microphone Jammer
- Made for NASA



Distributorship



- Made in USA
- Industrial Communication Systems
- High Quality
- Ethernet Switches, Serial Communications
- IP67, Exproof, High Temperature



Some Projects

Finished Projects

- Two Coastal Surveillance Project for Turkish Coast Guard
- Two Boat Command System Project for Turkish Coast Guard
- Two Mobile Radar Vehicle System Project for Turkish Coast Guard
- Three Port Security Project
- One Critical Refinery Security Project
- 13 Boats Satellite Communication with Real Time Video Transfer for Turkish Coast Guard
- 1 Boat Command System Project for Turkish National Sea Police
- 5 Boats Radar System Project for Turkish Coast Guard
- 5 Boats Camera System Project for Turkish Coast Guard



Some Projects

Started Projects

- 105 Boats Command System Project for Turkish Coast Guard (2020-2023)
- 9 SAR Boats Camera System Integration for Turkish Coast Guard with DAMEN Shipyards (2019 - 2021)
- 17 Boat Command System Project for Turkish National Sea Police (2020-2023)
- 1 Oil Spill Detection Project for Istanbul 3rd Bridge (2021)
- 13 Boats Fire Detection System Project for Turkish Coast Guard (2021)
- 1 Coastal Surveillance Project for Turkish Coast Guard (2021)
- 1 Unmanned Boat Project for Turkish Coast Guard (2021)



Some Projects



Some Projects



The screenshot displays the MarineVmap software interface. The top section shows a map of the Mediterranean region with a green overlay. The left panel contains the following data:

- Askeri Gemi Listesi
- Güncelleme Zamanı: 15:59:15 09 July 2019
- Gemi Adı: TCSGGUVEN
- Mevki: Enlem : N 41° 9' 20.76" Boylam : E 29° 2' 13.5"
- Sürat: 1 Knot
- Baş Açısı: 312.5 °T
- PTZ Aç / Kapat: PTZ Aç / Kapat
- Gemiyi Oratala

The right panel shows a legend for the map overlay:

- Alarga Gemileri
- Kardak
- SgBotları
- Grupsuz
- GUNCEL
- GUNCEL19

The bottom section shows a video wall with two live feeds. The left feed shows a view of the sea with a yellow buoy in the foreground. The right feed shows a view of a bay with a forested hillside in the background. Both feeds display technical data:

Left Feed Data:

- TCSG109
- GRANDI FLIR
- 07/07/2019 09:59:45
- Enlem : 38.636200000000° N Boylam : 26.76707° E
- FrameRate : 16 BitRate : 677 Kbit/s
- Resolution : 600 X 480 LP : 11

Right Feed Data:

- TCSG82
- SILYON FLIR : 10.164.1.131 (FLIR-CP-6302-311-F18BD00780) - 1
- 27/06/2019 23:56:40
- Enlem : 36.67582° N Boylam : 28.6743683333333° E
- FrameRate : 15 BitRate : 1410 Kbit/s
- Resolution : 600 X 480 LP : 16



Software Abilities

Abilities

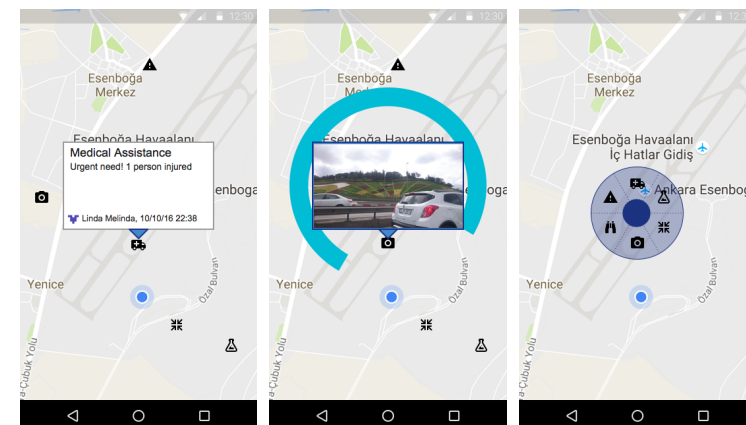
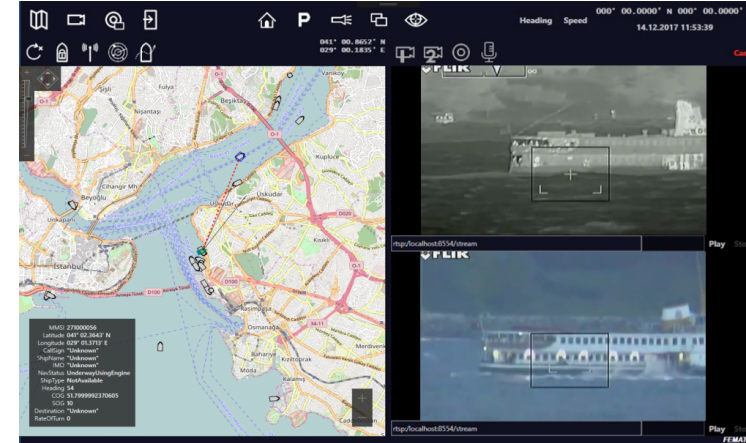
- Signal and image processing
- Signal and image compression
- Digital Maps (S63 ENC)
- Integration of systems
- Augmented reality
- Mobile solutions

Works

- Integrated systems with digital maps
- Data interface on video
- Data transfer solutions
- Augmented Reality Solutions

Softwares

- PARS
Command and Control Software for moving or fixed platforms.
- SARP
Augmented Reality Software with digital map for video.
- AKRA
Holografik Command and Control Software.
- HAWK
Mobile data sharing platform with digital maps.



PARS

Heading Speed 000° 00.0000' N 000° 00.0000' E
14.12.2017 11:53:39

041° 00.8652' N
029° 00.1835' E

MMSI 271000056
Latitude 041° 02.3643' N
Longitude 029° 01.3713' E
CallSign "Unknown"
ShipName "Unknown"
IMO "Unknown"
NavStatus UnderwayUsingEngine
ShipType NotAvailable
Heading 54
COG 51.7999992370605
SOG 10
Destination "Unknown"
RateOfTurn 0

rtsp://localhost:8554/stream

Play Stop

rtsp://localhost:8554/stream

Play Stop

FEMATEK

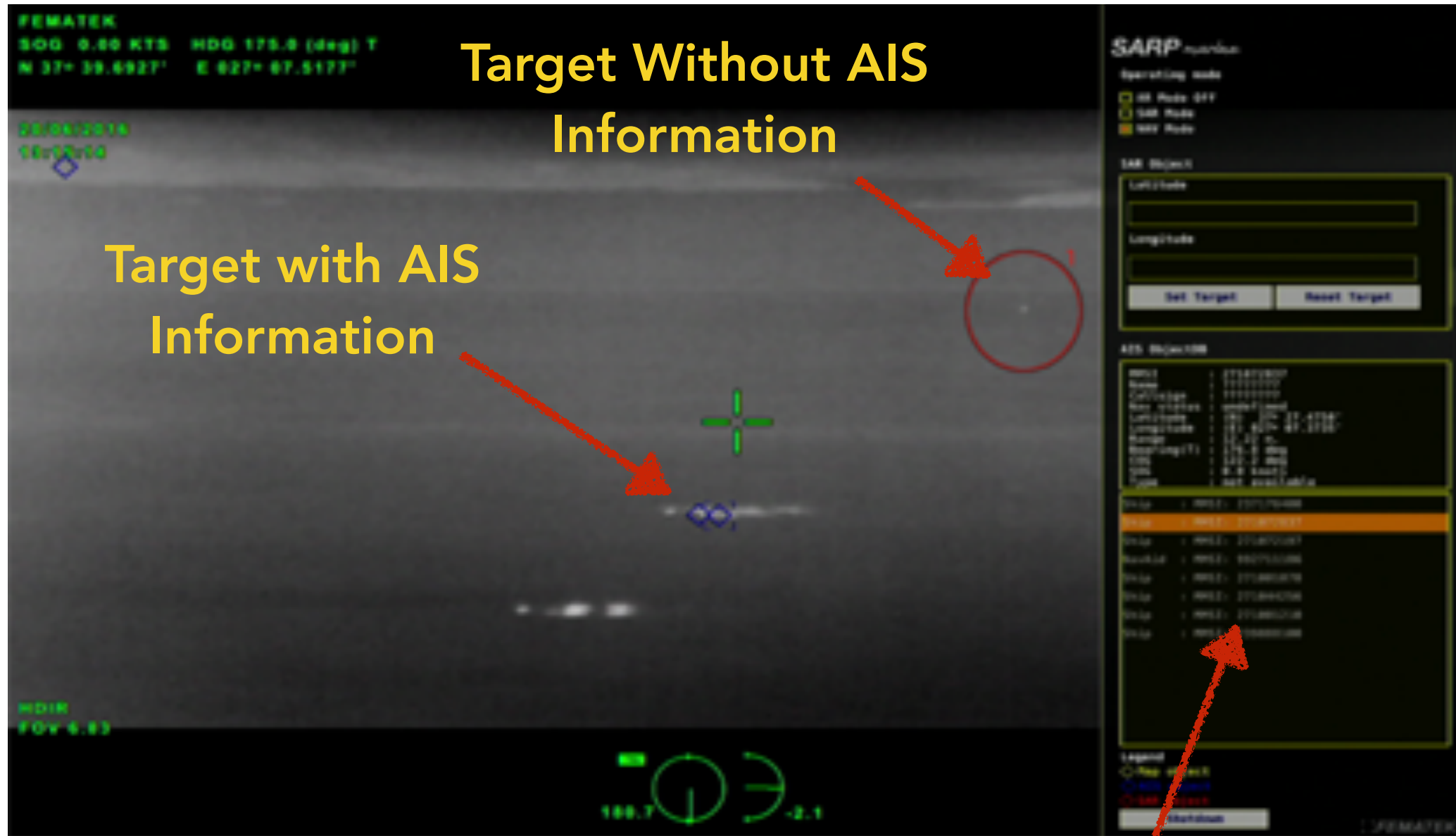


PARS Features

- Full digital map based (S63 ENC integrated)
- Integrated a lot of sensors like navigation radar, electro optics etc.
- Integration with other data platforms (AIS, Link etc)
- Display of data and video (map, contact etc.) on a single platform
- Quick and accurate information on contact classification and evaluation
- Camera control from map
- Alarm zones



SARP



AIS Information Screen



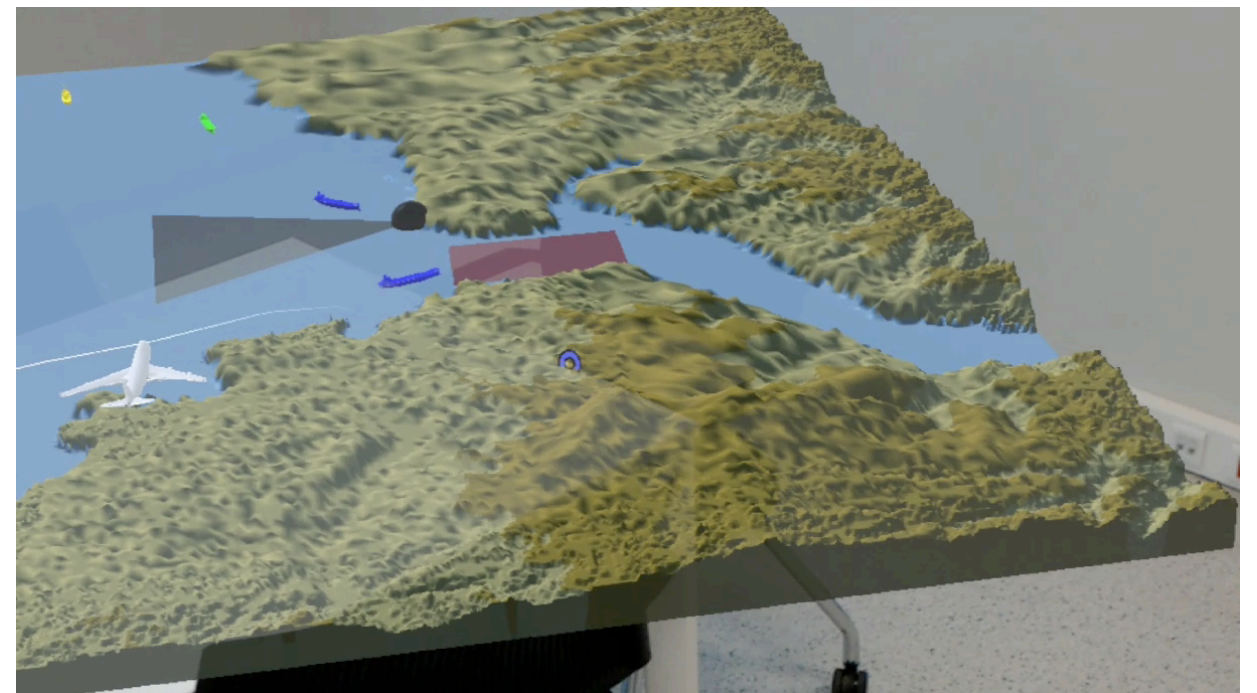
SARP Features

- Integrated with digital maps
- Real time data integration with sensors
- Integration with multiple sensors (track radar, weather radar, etc.)
- Integration with other data sources (AIS, Link etc.)
- Display of data and video(map, contact etc.) on a single platform
- Quick and accurate information on target classification and evaluation
- Custom made interface
- 3D information on map
- Layer options
- Metadata ve Video Recording
- Playback
- Custom made development
- Simulation



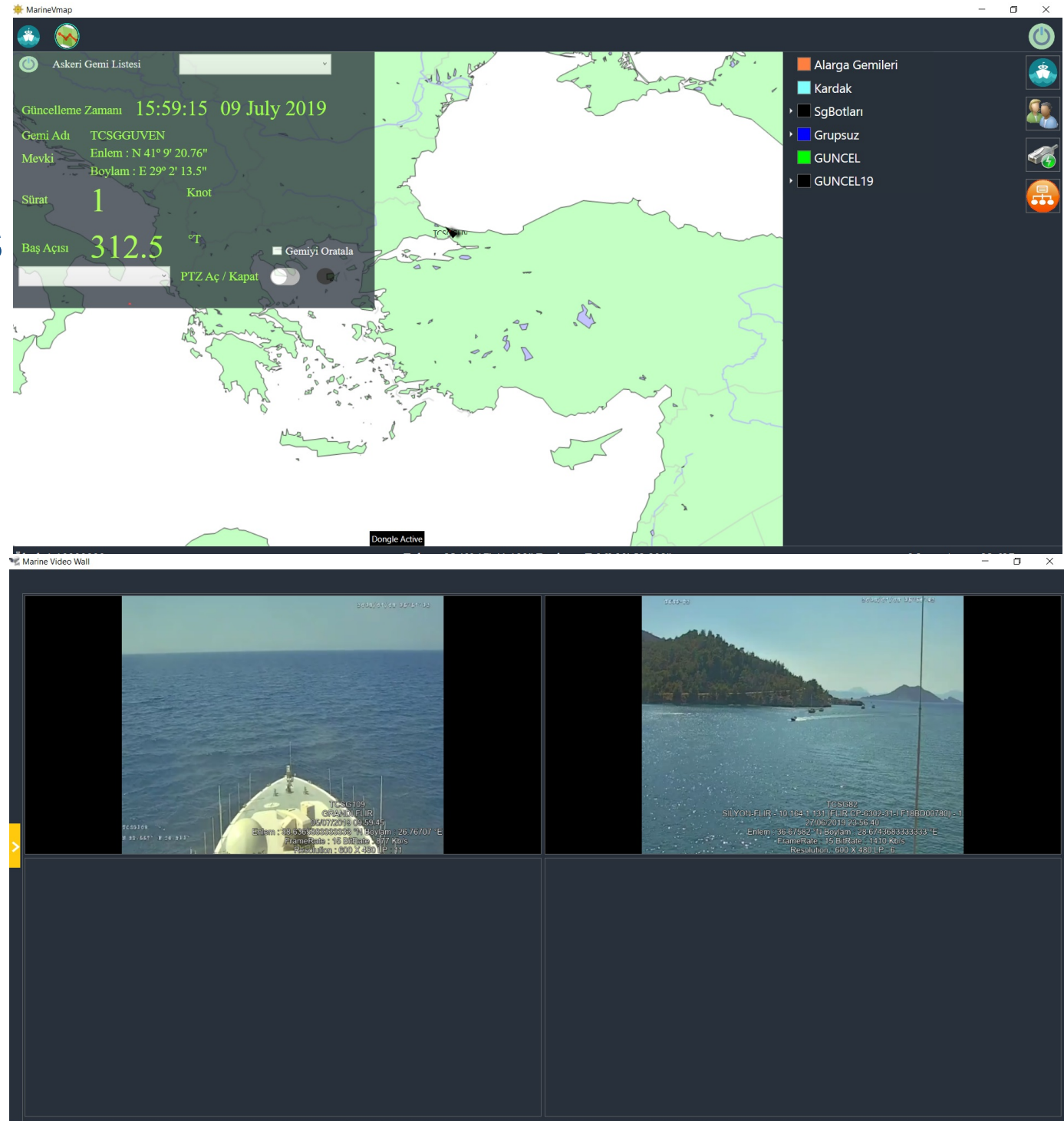
AKRA

- Full integrated with digital maps
- Integrated a lot of sensors like navigation radar, electro optics etc.
- Integration with other data platforms (AIS, Link etc)
- Display of data and video (map, contact etc.) on a single platform
- Real time and no need screens
- Custom made solutions
- Cost effective
- Secure (Nobody can see what you see)
- New world technology



ANKA

- Fully integrated with digital maps
- GPS and camera integrations
- Adaptive real time video streaming
- Connection between mp and video
- Satellite and LTE communication
- Map based camera control
- Secure
- Cost effective
- Custom made solutions



Questions

