E L T

technology for innovation

COMMUNICATION
MONITORING

COMMUNICATION

Full integrated mobile solution for Monitoring of Communication devices

Provides a clear knowledge about communication devices in the area of interest.

When monitoring mobile phones the relevant information (nationality of the phone, and rough location estimate) is collected even when the target is not using the mobile phone.

MUROS- C Monitoring provides a full capability to detect and classify all communication devices in the frequency range from few KHz to 6 GHz and higher. This implies a multi-antenna configuration that allows surveillance of the frequency band by searching / scanning functions, and then direction finding of the communication emitters.

On request, the Operator can select several channels simultaneously and classify the communication device and protocol.

The derived information can immediately be processed broadcasted by the powerful communication equipment.

By positioning one or multiple MUROS-C vehicles in optimised locations around the area of interest the monitoring of the mobile phone traffic can be easily optimized.

MUROS

MUROS-C
Communication

COMMUNICATION MONITORING

Frequency Bands:
Covering mobile communication standards like
GSM, UMTS, LTE
VHF / UHF
ISM Bands
SatCom

Radio channels, maritime radios and portable
radio transponders

Several hours of autonomous operation

Full integrated sensor suite

Powerful data and voice communication
equipment

Climate control for operation in challenging
environmental condition

Typically two Operators with full
equipped work posts

Integrating the output of a GSM/UMTS communication monitoring system allows mapping the mobile phones in the areas of interest. Without decrypting the protocol, it is possible to extract rough information on the position of the phone and its nationality.

By merging this estimate with the data coming from other sensors, the operational picture of moving actors in the monitored area is widely enriched.

State-of-the-art fusion algorithms allow integrating all available sensor data in order to build up the aggregated tracks for the operator in the vehicle or in a remotely-connected control station. The data processing tool – provided with the sensor suite – also allows identifying anomalies as for example clustering of emitters, or suspect nationalities.

The fused tracks and their labels ("suspect") are displayed to the Operator, recorded and used to steer short or medium range cameras for detection (long range) and recognition (medium range), or directly to support the decision process.

DNV·GL
EN 9100 ISO 14001
MANAGEMENT SYSTEM CERTIFICATION