



CLOSED JOINT-STOCK COMPANY “NEW IMPULSE TECHNOLOGIES”
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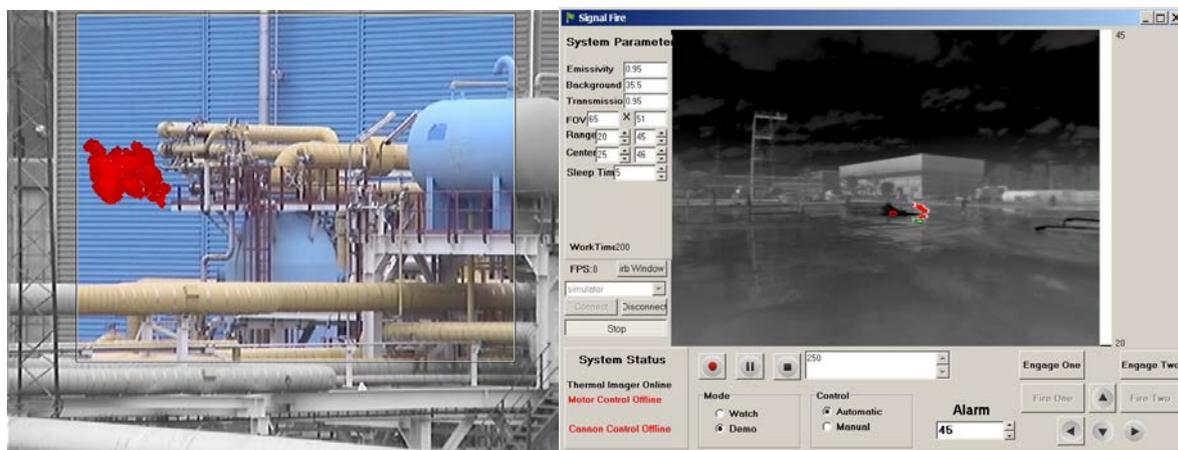
Here, in a popular and brief manner some principles of visualization and automatic evaluation of volume and subsequences of leakages of any gas, oil, oil products, and any other dangerous substances are described.

Leakages of any gas and oil product vapors into the atmosphere cause companies big daily financial loss and huge damage for the environment. Only the BP concern loses about 6 million cubic meters of natural gas annually, and this is only due to the leakages, which cannot be detected. The damage for people and nature from leakages of oil, oil products, and various gases is so huge that it is not always predictable and calculable.

The danger and damage from leakages is particularly dangerous for countries dealing with oil and gas transportation and transit through their territory, including shipping and transshipping of gases and oil at their ports.

Till present, for recording gas or oil leakages complex and very expensive combined monitoring systems have been used, which could fix only one type of gas or oil product, were exposed to numerous inaccuracies, false actuations, and frequent failures. New Impulse Technologies for the last eight years has been conducting numerous researches in the field of infrared detection and has created a universal system for detecting leakages of various gases, oil, oil products, and oil vapors in the air, on land and water. All types of detection are performed by means of a single infrared system with special software.

Owing to refusal from a combined method of detection, especially from laser brightening, the cost of the new system is several times lower than any new system, while its effectiveness is higher.

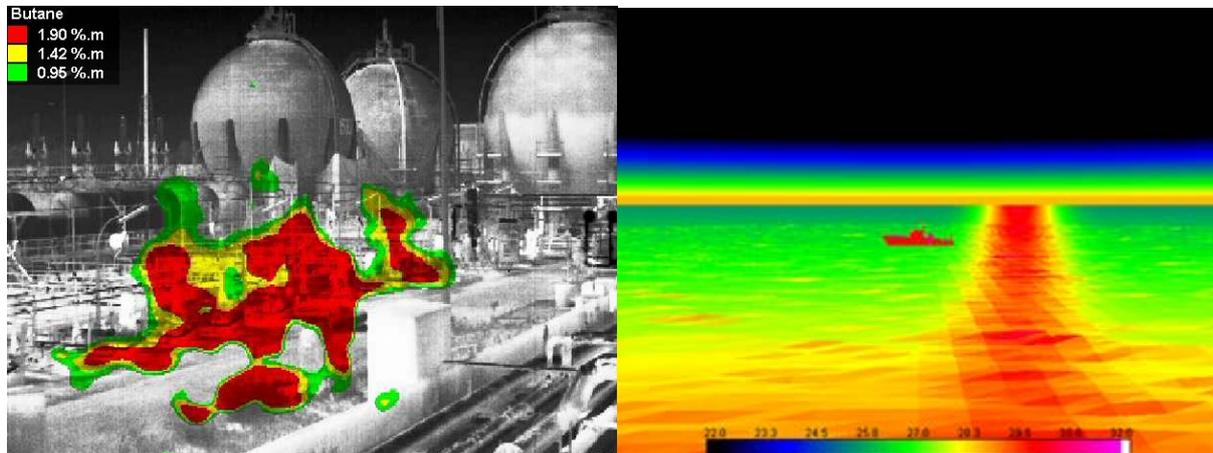


The cost of the new system depends only on the range of tasks to be solved by the system on a particular object.



The system can detect leakages of:

1. Any gases.
2. Oil and its vapors.
3. Oil products and their vapors.
4. Any other dangerous liquids, gels, suspensions, aerosols, and other chemical products.



Besides mandatory fixation of any gas leakages, the system can automatically determine the exact place of leakage, the composition of the leaking substance, volume, and speed of spreading. The system forms the whole situation in real time on electronic map of the object or location.

The area of detection is the atmosphere, earth and water surface, including the surface of channels, seas, and rivers.

The main objects where the system can be applied are as follows:

1. Oil refineries and any objects on mining, processing and transportation of oil and gas.
2. Water and land ways used for transportation of oil, gas, and other dangerous substances, including railways.

In our opinion, our system is very important for continuous control of:

1. Water space in sea channels used for oil and gas transportation, e.g. the Bosphorus.
2. Around offshore oil platforms.
3. Water areas of sea ports used for transshipment and transportation of oil and gas.

We have developed the project of infrared supervision, including visualization of gas, oil vapors and oil products leakages, very well. We can secure supervision over ships and see leakages of any gases and oil vapors. We have taught the infracameras to be capable of watching moving objects. And what is most important we can see spills of oil or other fuel on water. In other words, we can secure monitoring both ships and water surface by means of one camera only

Besides performing the main tasks, the system controls technological state of the object and can give a signal on a possible fault of the object a few hours before an accident emerges. The system fully controls the fire-prevention situation on the object and can in case of fire emergence independently turn on the automatic extinguishing systems existing on the enterprise.

For each object its own unique system should be created and constructed, which will perform all tasks required to control the object and needed for the system's user. That's why New Impulse Technologies offers to a potential customer just to indicate the general characteristics of the object, and afterwards the main part of the system will be created and demonstrated. Elaboration and expansion of the system's possibilities for the customer will be performed after demonstrating all possibilities of the system and specifying the customer's wishes.

