

## Technology Offer

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# Algorithms for image processing to be used in video surveillance systems

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## Summary

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*A company from Western Poland has developed a system of algorithms enabling image processing in video surveillance systems. Thanks to the application of the algorithms it is possible to hide unimportant (static) details and emphasise the important ones, hide or recognise objects' identity. The systems is less complex and therefore, much cheaper than comparative solutions on the market. The company is looking for partners interested in license agreement, joint venture or technical co-operation.*

Reference TOPL20140903002

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## Details

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### Description

A company from Western Poland has developed a system of algorithms enabling image processing in video surveillance systems. The method is based on the application of various algorithms allowing image processing in order to optimise its use. Thanks to application of special filters, the method allows:

- hiding unimportant (static) images while emphasising the movement dynamics, even the smallest and the softest movement of objects and leaving creatures,
- hiding or recognising of identity of objects captured in the images,
- transformation of a natural image into lining or shading version.

The algorithm is not as complex as other similar solutions available on the market and consequently the offered system is much cheaper than the ones of the competition. The offered set of solutions is very effective and gradually increases the system operator's efficiency (by emphasising of important images and focusing only on these important images the operator's eyes do not get quickly tired as there is not so many information to be processed when compared to traditional video surveillance systems). Moreover, the filters applied in the company's system create images more acceptable for human's eye.

The company is looking for partners interested in license agreement, or joint venture. Technical co-operation with regard to further development of the company's video surveillance system is also possible.

### Advantages and Innovations

The most distinctive feature of the offered video surveillance system is its innovative algorithm (which is less complex when compared to other solutions available on the market) which, on one hand enables decreasing the processing complexity (increasing its processing speed and consequently making the video motion better and more smooth) and on the other hand enables processing of a few images right at the time on a few screens (by maximum exploitation of its

potential). The filters applied in the algorithm compress images of high quality saved on the user's hard disc drive (HDD) or other data storing device (the file size is much smaller than traditional files).

The technology is aimed for manufacturers of video surveillance systems and equipment. Nevertheless, due to its simple and optimised structure its range of applications is not limited only to these manufacturers but may also be applicable on other electronic devices (it is possible to use the algorithm on mobile devices – smartphones, tablets, digital cameras, digital video cameras, any others). The technology may be applied both as hardware and software.

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**Open for EOI :**    **Yes**

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## Client

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### Languages Spoken

English  
German  
Polish

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## Partner Sought

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### Type and Role of Partner Sought

The technology is mainly aimed for manufacturers of video surveillance systems and equipment, nevertheless, due to its simple and optimised structure its range of applications is not limited only to these manufacturers but may also be applicable on other electronic devices mobile devices – smartphones, tablets, digital cameras, digital video cameras, any others).

The co-operation with regard to further development (either via joint venture agreement or technical co-operation in terms of joint further development of the technology, testing of its new applications, adaptation to the clients' specific needs) or purchasing the licence are possible.

Interest in the offered technology is expected from potential partners.

### Type and Size of Partner Sought

SME 11-50,R&D Institution,251-500,SME 51-250

### Type of Partnership Considered

License agreement  
Technical cooperation agreement  
Joint venture agreement