Datasheet of the IKTA3/191 project

I. ***Intelligent Autonomous Camera Module with embedded powerful image processor***

Project start: June 1, 2001, duration: 18 months.

Amount of support: KHUF 42 500, total project cost: KHUF 85 000.

Project leader: ***Zarándy Ákos Dr.***
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Project URL: <***http://www.analogic.hu***>

II. Consortium members (number of members = **2**, the first member is the project co-ordinator)

no	name	support	total cost
1.	AnaLogic Computers Ltd.	KHUF 18 800	KHUF 37 600
2.	HEXIUM Technical Development Ltd.	KHUF 23 700	KHUF 47 400

III. Public presentations

Presentation #1 (28-január-2001): HTML (8 KB)

Presentation #2 (14-november-2001): PDF (904 KB)

The presentations are accessible through a special webpage summarizing the project presentations.

IV. Goals of the project

The goal of the project is to develop a high performance (10E12 TeraOPS equivalent digital operations computational capability) standalone, general purpose, image processing device, which can operate in industrial environment and prepared for field use also. The unit will be hosted by a PC-104plus industrial computer. This extraordinary high computational capability can be achieved by combining the recent results of the Cellular Neural Networks (CNN) technology with a high performance special purpose digital image processor (Philips' TriMedia chip) and with a high-end DSP. The device will be able to gather images, solve complex image processing tasks. In other words, it will be able to convert a scene into verbal description, certainly in those cases only, which are supported by its program. This yields a drastic data reduction, which makes possible to permanently report events or parameters to be measured even through a narrow bandwidth communication channel. Naturally, the unit will be prepared to be able to communicate via various communication channels, and will be equipped with a remote controllable camera. The unit is designed for using in the following application areas: security, surveillance, medical imaging, industrial Q&A.

V. Project results (in case of finished projects)

The project is not finished.

VI. Data on consortium members (number of members = **2**)

1. ***AnaLogic Computers Ltd.*** (co-ordinator)

   URL: <***http://www.analogic.hu***>

   Support for the co-ordinator: KHUF 18 800, and its total cost: KHUF 37 600.
   Contract number: OMFB-00987/2001.

   Team leader: ***Zarándy Ákos Dr.***
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2. ***HEXIUM Technical Development Ltd.***

URL: <***http://www.hexium.hu***>

Support for the consortium member: KHUF 23 700, and its total cost: KHUF 47 400.
Contract number: OMFB-00991/2001.

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