## About the IM-03 apparatus manufacturer

Zaklad Techniki Mikroprocesorowej (ZTM) [Microprocessor Application Company] is a Polish company, located in Poznan, currently engaged in the image and signal processing application.

Our activity covers mainly such areas as the production of electronic circuits based on a design of our own and the development of control and measuring software, either for generic microprocessors or for more complex processors called Digital Signal Processors (DSP).

For over twenty years of the company's development we have evolved from simple ***through hole*** electronics, through ***SMD***, to ***chip on board technology***. This technological progress enabled the creation of smaller and more useful devices like IM-03.

Technological and product quality progress

1984	1993	Today

Through hole montage	Surface mounted devices	Chip on board
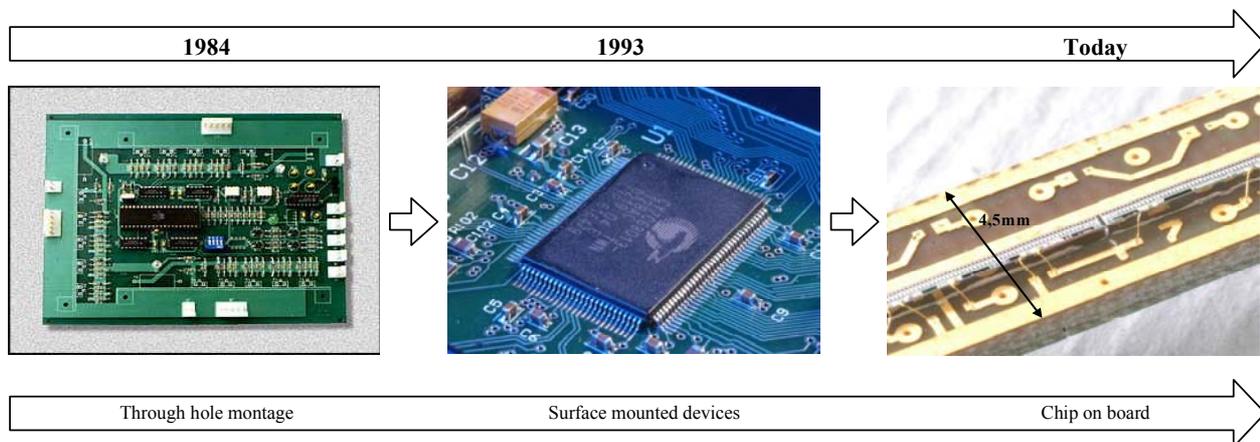
Since 1995 ZTM has been producing pig carcass grading apparatuses.

The first model was a stationary, non-portable system connected to a PC.
Formerly, in Poland, slaughterhouses classified carcass for their own use. The quality of such classification was additionally checked by storehouses (!), which at some point had requested hand-held devices. Many small slaughterhouses also needed portable devices. To satisfy these needs ZTM had developed the first hand-held apparatus – PLE-2.

In 1998 a new hand-held model – PLE-3 has been put into production.
The main feature of the PLE-3 system was the ability to grade and weight the carcass separately. The weighting results were then recorded on a small electronic block connected to an electronic scale mounted nearby. Having finished the slaughter and grading process, the operator could transfer the weighting results to PLE-3 using infrared communication. This way, the device could analyze and store the results without losing its main feature – portability.

In response to new market requirements, especially the needs of small slaughterhouses, ZTM designed a new apparatus model, called IM-03.

IM-03 is an opto-needle apparatus and passed all the tests required by UE regulations.