specim
A Konica Minolta Company

BREAKTHROUGH
IN BLACK PLASTIC SORTING

Black plastics are widely used in the automotive industry, electronics, food packages, plastic bags, they can be found all around us. Unfortunately, instead of recycling, they are burned for energy or dumped to landfill, since there has not been efficient and reliable technology available to sort them.

Specim FX50 is the first camera that can identify different black plastic types, including ABS, PE and PS.

HYPERSPECTRAL IMAGING IS THE ONLY TECHNOLOGY THAT CAN IDENTIFY BLACK PLASTIC TYPES WHEN USED ON MWIR SPECTRAL RANGE.

Specim FX50 is the only hyperspectral camera available on the market covering the full MWIR spectral range 2.7 – 5.3 um that is required with black plastics. This allows fast and reliable sorting of:

- Black plastics such as PS, PE, PP, ABS and PVC
- Certain additives, like flame retardants
- Rubbers
- Non-black plastics and rubbers

The fast frame rate of the Specim FX50 combined with its high spatial resolution allows 300 kg of 2x2 cm plastic flakes to be sorted per minute (a 1-meter wide conveyor belt running 2 m/s). This high throughput makes the Specim FX50 a competitive option for the recycling industry where cost is a major concern.

SPECIM FX50:

- Full spectral range – for sorting most of the plastics
- Temperature stabilized casing – to keep accurate results within a harsh industrial environment
- Small – Flexible and easy installation
- High frame rate - for high sorting throughput
- Easy integration - communicates with commercial analysis softwares through standard interfaces

REAL PARTNERSHIP – EXCELLENT RESULTS

Specim can offer you a continuous, long term partnership that will help you get the most out of your imaging system.

Specim inhouse expertise:

- Scalable production, maintenance, calibration and repair services
- Superior knowhow in optics, electronics, software and mechanics
- Strong team to solve application related challenges
- Sample measurement and feasibility services

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