## Detection of Dark Pellets after Extrusion and Pelletizing of Natural-colored Recyclate

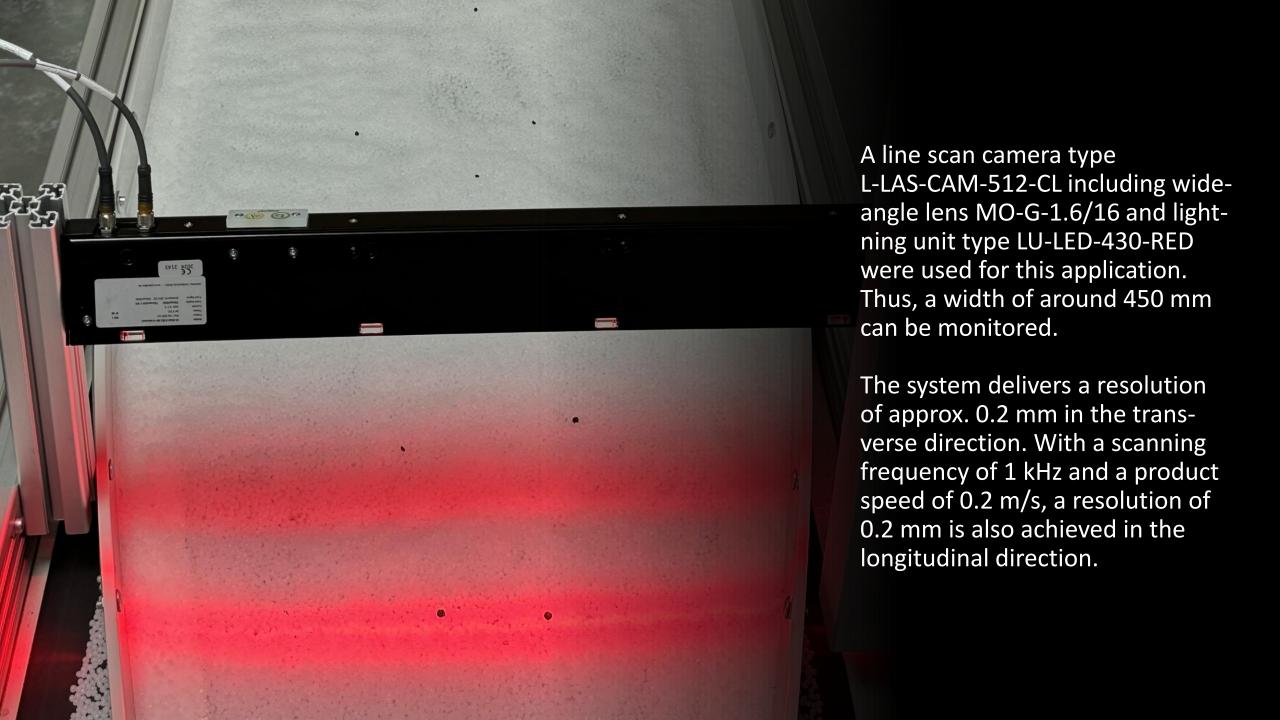
Immediately after the extrusion and pelletizing process, the presence of dark pellets should be checked on a vibrating feeder for natural-colored recycled material.

Dark pellets can be caused by deposits in the extruder, for example on the filters.

The recyclate is checked using a line scan camera and a corresponding line lightning across the entire width of the vibrating chute.

If dark granulate is detected, a digital output is set by the sensor system (+24V pulse). The number of digital signals per time unit can then be determined using a PLC, for example. If a certain limit value is exceeded, the contaminated recyclate is ejected from the pellet flow.





## L-LAS-CAM-Scope V4.0

Instruments

Sensor

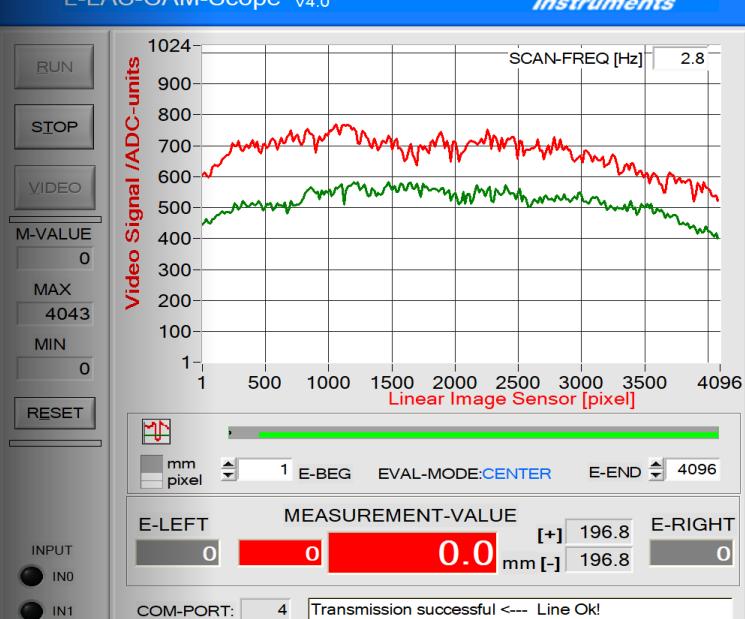
The Windows® software
L-LAS-CAM-Scope V4.0 can be
used to specify a comparator
threshold profile that is derived
from the current video profile.
This ensures that the sensor
sensitivity remains constant over
the entire measurement range.

2250

4/20mA

0...10V

Parameterization of the camera system, such as setting the scan frequency, exposure time and video threshold, is also carried out via the GUI.

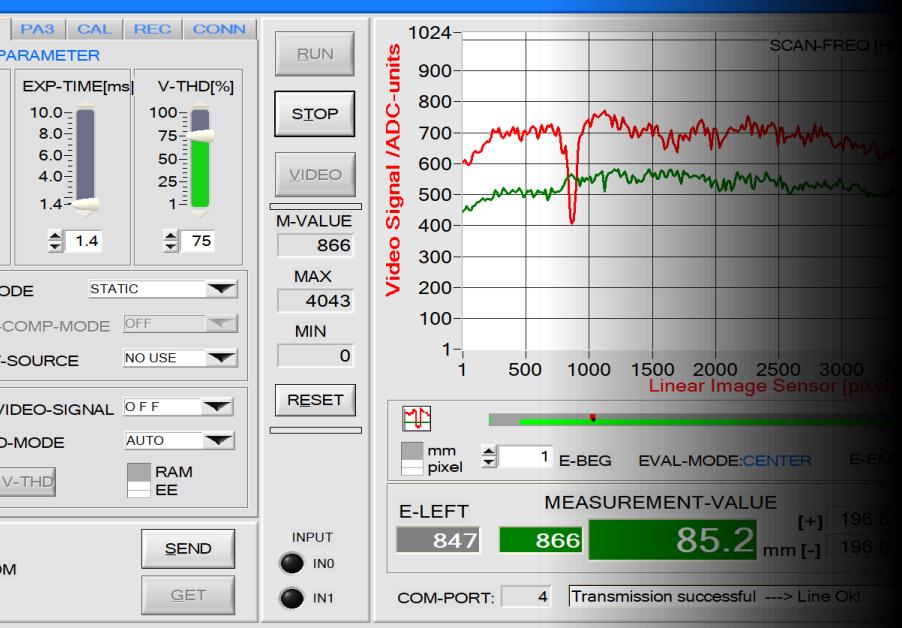


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## L-LAS-CAM-Scope V4.0

Sensor



If a dark granule now appears in the detecting range of the sensor, this is shown as a negative peak in the video signal of the line scan camera. The digital output is set when the video signal falls below the set video threshold (+24V pulse).

The automatic adaption of the video threshold profile to the current video profile ensures long-term stable product monitoring.

## Detection of unwanted color deviations of individual pellets in the natural-colored recyclate flow

Immediately after the extrusion and granulation process

Recyclate inspection using a line scan camera system and line lighting

Our specialists are happy to tell you more about it

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