Founded in 2000, opdi-tex acts as competent and innovative technology partner for the industry in the field of intelligent image processing. We are specialized on integrated machine vision and develop customized camera solutions that are optimally matched to your requirements.

We support our customers in a variety of automation tasks: from optical quality control, product tracking in flow production, measuring, inspection of products and stereo vision up to methods to increase productivity.

As individual ideal solutions for you, we completely produce all applications cost-effectively with TÜV Sud certified quality management according to ISO 9001:2015 in the vicinity of Munich: from the opto-electronic sensor to programmable logic and SoC-based hardware up to evaluation and user interface.

We teach machines to learn, spot and understand!

More than 2000 of our systems are used successfully in different industries worldwide and are often applied under the name of our customers in the production of:

- food & sweets
- automobiles
- paper and foil printing
- packaging
- pharmaceuticals
- woven textiles

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Mesh Checker by opdi-tex

The sensor is designed for easy installation in your system. Due to its robustness, it is suitable for use in rooms exposed to carbon or fiber-glass dust as well as for threads with sizing. It works independently and without influence of thread colors and ambient light.

Weaving looms
Knitting looms
Laying machines

Suitable for uniform coarse patterns/meshes regardless of the manufacturing process. Optionally, laminated or coated fabric can be inspected with suitable illumination.

Materials:
Suitable for cotton, synthetic fiber, carbon and glass fiber, also ribbons made of these materials

| Number meshes: | up to 20,000 per second |
| Thread diameter: | minimum 0.15 mm |
| Thread distance: | bigger than 1 mm |
| Thread color: | arbitrary, also mixed |

Mode of operation: CAMTECH / MS 2500
- optically aligned line scan cameras, contactless
- only one passive external reflector or transmitted light
- working width: 2500 mm, alignable and scalable
- working distance: 1000 mm / depth of field up to 100 mm
- dimensions: ca. 250 x 150 x 2000 mm, 15 kg
- power supply: 24 V, 1 A
- type of protection: IP68
- interface: Vcc (24 V/DC), rotary encoder, Ethernet

Quality Control & Quality Assurance

Output:
- adjustable result information, with an external module also a programmable digital signal
- direct control connection and logging
- browser access for easy operation, easy integration into customer system

The result can go directly to a PLC or other controller. The extremely simple setup and high reliability allow it to be used as a measuring device for a closed-loop and also for 100%-logging to increase the value of the final product.

For more information give us a call or visit www.fadenkontrolle.de

Your advantages of optical measurement from opdi-tex are:
- high-resolution, extremely flat and more than 2 meters wide
- detects the absolute position of all meshes
- independent of color and ambient light
- independent of material (conductivity, surfaces, …)
- integrated incident light can be combined with IR transmitted light
- clearance for free workspace and easy setup