## **PROMPT LAB**





I DEFECTS VISUALIZATION

YARN

Detailed analysis of filament yarn characteristics such as broken filaments, fluff, evenness, yarn defects, twist and interlace is important in order to achieve maximum process optimization and product quality. For this purpose, it is of great advantage if the monitored yarn characteristics are not only presented numerically, but also visually.

Lenzing Instruments offers a series of laboratory systems for thorough yarn analysis. These feature online defect detection together with integrated defects visualization. **PROMPT LAB** is the generic product name of the three systems for defect- and yarn characteristics visualization in the laboratory: **DEFECT VIEW LAB, FRAY VIEW LAB** and **YIS 200 LAB**. These are all-in-one units with integrated yarn sensors and/or camera systems in combination with a yarn take-off system for offline operation. All versions of **PROMPT LAB** generate pictures of detected yarn defects, which are then presented in the powerful evaluation software for further analysis. The systems differ in terms of applied yarn sensor and type of image generation. Which **PROMPT LAB** version to apply for a specific measurement task depends on the individual requirements of each customer.

With the variety of **PROMPT LAB**, it is easy to find a laboratory system, which offers accurate and reliable defects visualization of any kind of filament yarn.

**PROMPT LAB** enables precise analysis of one yarn product. For off-line inspection of numerous yarn bobbins simultaneously, **ELKOMETER 200** is the choice.







# **PROMPT LAB**

### YARN DEFECTS VISUALIZATION

#### Scope:

Off-line image analysis of yarn defects such as broken filaments and fluff as well as of vital yarn characteristics such as evenness and interlace by means of a combination of an optical yarn sensor and a camera system.

#### Method:

By means of the yarn take-off unit, the filament is guided through an optical sensor. Each time the sensor detects a defect, the camera is triggered automatically and an image of the defect is captured.

#### **Results:**

The **PROMPT LAB** software displays the captured images in real time. Each event is also graphically displayed as a function of winding length or winding time. The software offers both real time monitoring as well as historical results analysis with statistical evaluation of the measurements.



DEFECT VIEW









Fluff

Big fluff

For technical details of a specific PROMPT LAB system, please refer to the leaflet of the corresponding online system.

Technical data and pictures are subject to change.

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LENZING NSTRUMENTS

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Your reliable partners for quality improvement

YIS 200

#### Yarn take-off speed: 800 m/min (option 1200 m/min)

Air supply: 90 psi instrument air

20 scfm (6 bar; 0.6 Mm<sup>3</sup>/min)

Dimensions:

 Width:
 570 mm

 Depth:
 440 mm

 Height:
 400 mm

Protection class: IP 64

Evaluation and control unit: PC with Windows<sup>®</sup> based software