



Sometimes, you need more information about detected yarn defects than total number of defects, their position and various statistical data.

Lenzing Instruments **FRAY VIEW** offers not only the above mentioned information, but also the possibility of analyzing an image of each defect.

FRAY VIEW combines the advantages of a **PROMPT FFD** sensor with a high resolution digital area camera.

Broken filaments or fluff are detected by the **PROMPT FFD** sensor. Each detected event triggers the integrated camera to generate a separate image of each defect.

The images give yarn producers a sophisticated tool for thorough problem analysis and further action taking towards improved product quality.

The optical **PROMPT FFD** sensor is characterized by its ability to detect both broken filaments and fluff, with a clear distinction between the two kinds of defects. It is suitable for all kinds of production environments thanks to its fully encapsulated design.

FRAY VIEW is the ideal equipment for circumstances when more thorough defects analysis is needed.



Scope:

Image analysis of broken filaments and fluff by means of a combination of the optical **PROMPT FFD** sensor and a high resolution digital area camera.

Method:

The filament is guided through the **PROMPT FFD** sensor, which features 6 light barriers with fault trip level selectable at 3; 4,5 and 6 mm from the yarn. One central light barrier is used for fluff classification. The intelligent sensor performs the calculation (evaluation) and the sensor status is displayed via two LED lights. Each time the sensor detects a defect, the camera is triggered automatically and an image is captured.

Results:

The **FRAY VIEW** software displays the captured images in real time. Each event is also graphically displayed as a function of winding length or winding time. Additionally, results analysis can be carried out in the **PROMPT FFD** software, which offers both real time monitoring as well as statistical evaluation of the measurements. The measurement data are communicated to the PC via the **FRAY VIEW** bridge box.

Detection range:

Broken filaments down to 5 µm

Production speed:

Up to 8000 m/min

Fault trip level

3; 4.5; 6 mm from the yarn illumination: Flat LED lamp (white)

Observed image area:

45 x 33 mm

Yarn guide:

Ceramic (exchangeable)

Evaluation and control unit:

PC with Windows® based software

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Data communication:

- Can BUS from **PROMPT FFD** to the bridge box and Ethernet from bridge box to PC
- Ethernet from the **FRAY VIEW** camera unit to the PC
- High-speed digital signal from **PROMPT FFD** to the flash control unit

FRAY VIEW box configuration:

1 connection for communication with **FRAY VIEW**

Ambient conditions:

15 to 50 °C max. 90 %, not condensing

Protection class:

IP 67

Power supply:

230/115 VAC ± 10 %
50/60 Hz, 350 W

Dimensions:

FRAY VIEW unit

Height: 160 mm
Width: 100 mm
Depth: 200 mm

WHEELED CASE

Height: 604 mm
Width: 473 mm
Depth: 283 mm

Technical data and pictures are subject to change.