

Testing Unit with Software, PC and Printer

**iQ2**  
**Technical Data\***

**Basic installation**

- Module to test all Evenness properties
- Simple Bobbin Carrier for Yarn & Unwinding device for Roving and Sliver
- Computer and Peripherals, Printer

**Additional Options**

- Hairiness Index (Hi)

**Application range**

- Spun Yarn, Roving & Sliver : 3.3 tex to 12 ktex

**Measuring principle**

- Evenness : Capacitance
- Hairiness Index : Optical

**Ambient Condition**

- Relative Humidity :  $65 \pm 2\%$
- Temperature :  $21 \pm 1^\circ\text{C}$  ( $70 \pm 2^\circ\text{F}$ )  
( $27 \pm 1^\circ\text{C}$  ( $80 \pm 2^\circ\text{F}$ ) for Tropical Conditions)

**Power**

- Single Phase 1.0 kVA UPS

**Compressed air**

- $13 \text{ m}^3/\text{hr}$  at 6 bar

\* Subject to change without prior notice



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iQ2™

More than an Evenness tester. The Quality Expert



**PREMIER**

**iQ**  
intelligent QUALITY



## Parameters Measured

### Numerical Results

- Um%, CVm% at various cut length
- Imperfections
- Index of Irregularity
- Relative Count
- Deviation rate%

### Graphical Results

- Mass & Hair Diagram
- Spectrogram (2D, 3D)
- VL Curve (2D, 3D)
- Histogram
- Trend Analysis

## Additional Features

- Mill Statistics Percentage (MSP)
- Inspection Stop Facility available for all imperfection levels

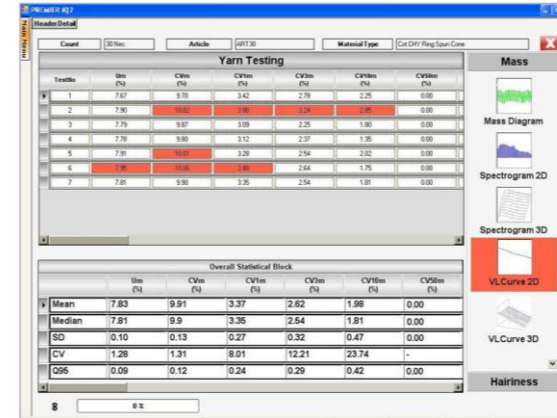


## “Unique” Features

**PREMIER iQ2** The Quality Expert provides a total quality measurement of Yarn, Roving and Sliver. It equips the user with the knowledge of highlighting the exceptions during testing which prompts the user to look into the specific areas of deviation from standard etc.

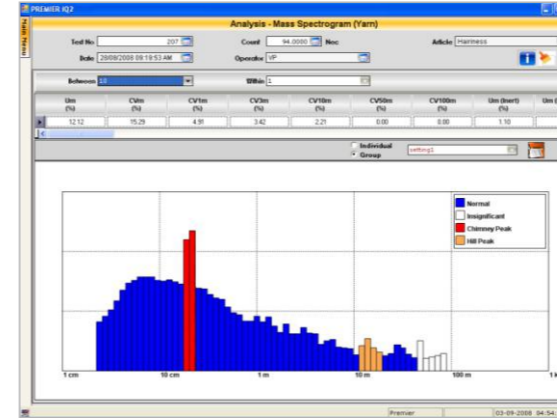
### Exceptions

The Quality expert equips the user with knowledge by highlighting the exceptions during testing which prompts the user to look into specific areas



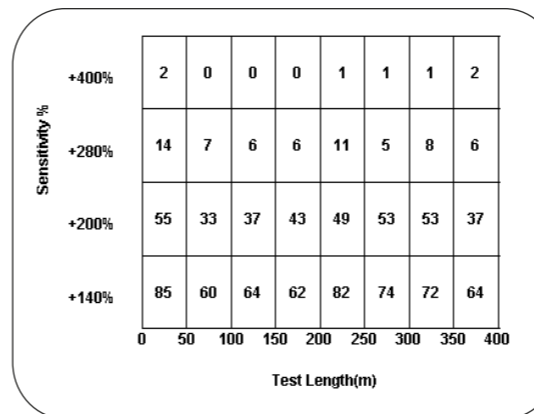
### Spectrogram

A graphical representation to know about periodic faults in Yarn, Roving and Sliver which helps user to identify the faulty components and drafting system in the process machinery



### Imperfection Distribution Chart

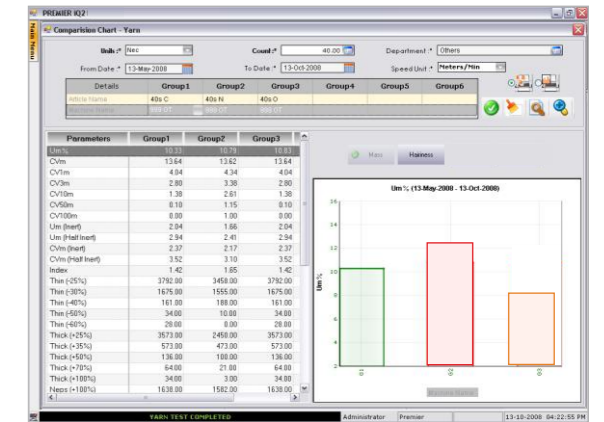
Independent distribution charts for Thin, Thick and Neps enable the user to visualise the distribution of faults over the length



### Trend and Comparison

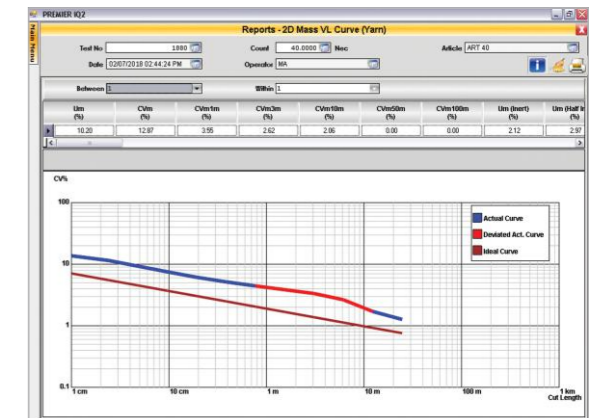
The unique comparison chart enables to compare all machines in a department and machines allocated to a Mass Count group

Quality trend of machines and count can be visualized over a period of time for analysis



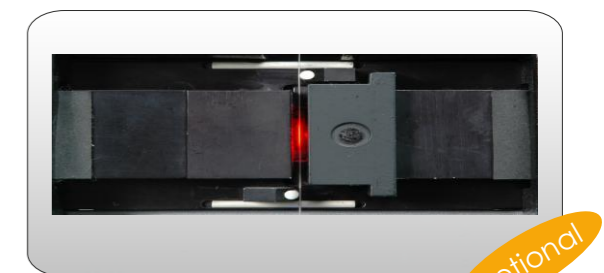
### Variance Length Curve

This graphical representation helps user to know the non-periodic variations at different cut lengths. A deviation in the curve infers a higher CV% in a process stage



### Hairiness Index

Hi: The Hairiness Index is used to ascertain the overall Hairiness in yarn.



Optional