

FIBREVISION® FX110 MICROSCAN. AT-LINE MEASUREMENT.

A REVOLUTION IN AT-LINE QUALITY CONTROL.

The Microscan provides a revolution in QC measurement by providing accurate At-Line measurement of key parameters providing data on both Mean Level and Short Term Variation.

Accurate QC measurement in all filament yarn processes is critical, yet today's laboratory techniques have major shortcomings in:

- Measurement accuracy
- Inability to measure short term variation
- Statistical significance
- Lag time between manufacturing and testing.

Historically At-Line measurements have been considered to be less accurate than laboratory tests for key QC measurements, but the Microscan has been shown in production tests by some of the industry's leading companies to be MORE ACCURATE than laboratory tests for measurement of Spin Finish and Interlace. The Microscan offers substantial Cost and Quality Benefits in comparison to laboratory testing.

Spin Finish Probe



Interlace Probe



Cost and Quality Benefits

- ▶ **Very Low Testing Costs**
With a few seconds for each measurement a single technician can realistically test well over 100 threadlines per hour using the Microscan
- ▶ **Lower Capital Costs**
A single Microscan has substantially greater measurement capacity than any laboratory equipment and yet is a fraction of the cost
- ▶ **Payback on Investment**
Typically less than 3 months
- ▶ **Reduction of Claims**
Due to Improved Accuracy and availability of Short Term Variation Data
- ▶ **Eliminate Short Term Faults**
These faults cause significant problems in downstream processes yet cannot be identified in the laboratory tests
- ▶ **Accurate Statistical Data**
Resulting from extended test lengths, accuracy of data and more frequent measurements
- ▶ **Faster Feed Back**
Immediate identification of faulty threadlines
- ▶ **Improved Quality**
As a result of elimination of short term faults, reduced off quality and Better Downstream Performance

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Fibrevision® FX110 Microscan

Microscan Features

The Microscan is an ultra portable, battery powered data acquisition unit designed specifically for intensive At-line QC applications. The Microscan operates with a range of probes to provide 2 different applications:

- Interlace
- Spin Finish

The user interface of the Microscan is a touch screen, providing access to generate Set Point and Data Files and control the Data Acquisition sequence.

The Applications for each probe incorporate state of the art data analysis routines, which together with ISO calibration provide extremely accurate measurements with a range of statistical data. Summary and individual data can be viewed and presented on the Microscan screen.

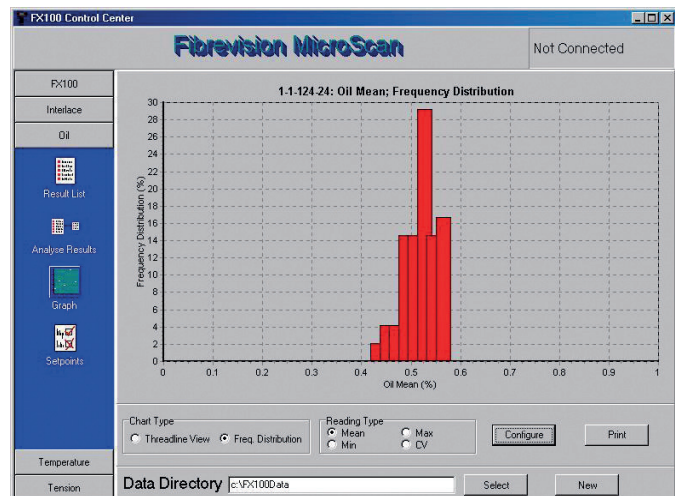
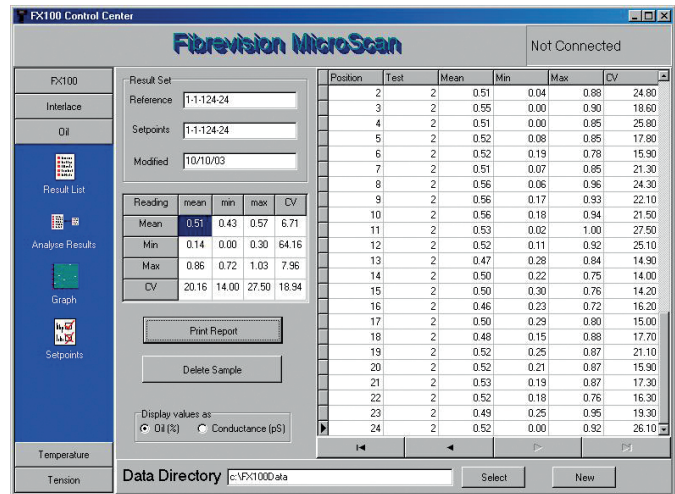
Up to 15 setpoint files and 20 data files can be stored in the Microscan. During acquisition, samples are automatically numbered, and up to 500 readings can be stored in each data file. Each Microscan has the capability to operate with two different types of probes.

Microscan PC Centre Software

A Windows Based PC application is provided with each Microscan to provide:

- Data Presentation and Printing Facilities
- Log Term Data Storage
- Data Export to Spreadsheets/ Data Bases
- Reprogramming Facility

The Microscan is connected to the PC by a standard RS232 serial link to a PC and the data is automatically transferred.



Microscan Applications

Measurement	Microscan Probes		Data
	Type	Range	
Interlace	FS220	10 to 2000 Denier	Nodes/m - Mean and CV
	FS230	500 to 12000 Denier	Node Distance - Max and CV
Spin Finish	FO110	See probe data	Mean, min, max, and CV

Microscan Specification

Power Supply

4 NiMH rechargeable cells providing up to 6 hours continuous use.

Applications

Two applications (Probe Types) can be used on a single Microscan (See Above).

Scope of Supply

FX110 Microscan, 8 NiMH batteries, Battery Charger, PC software, Link Cable to PC, Operating Manual.

Internal Memory

Non Volatile memory (data is not lost when batteries are changed) - stores up to 15 set-point files and 20 data files for each application, each data file can hold up to 500 records.

Data Output

Via PC application, with custom database for data presentation and printing. Facility for data export in format suitable for spreadsheets and data bases

User Interface

Touch Screen

Calibration

Microscan and Probes are supplied calibrated to ISO standards, a recalibration service is available. Optical probes include condition monitoring.