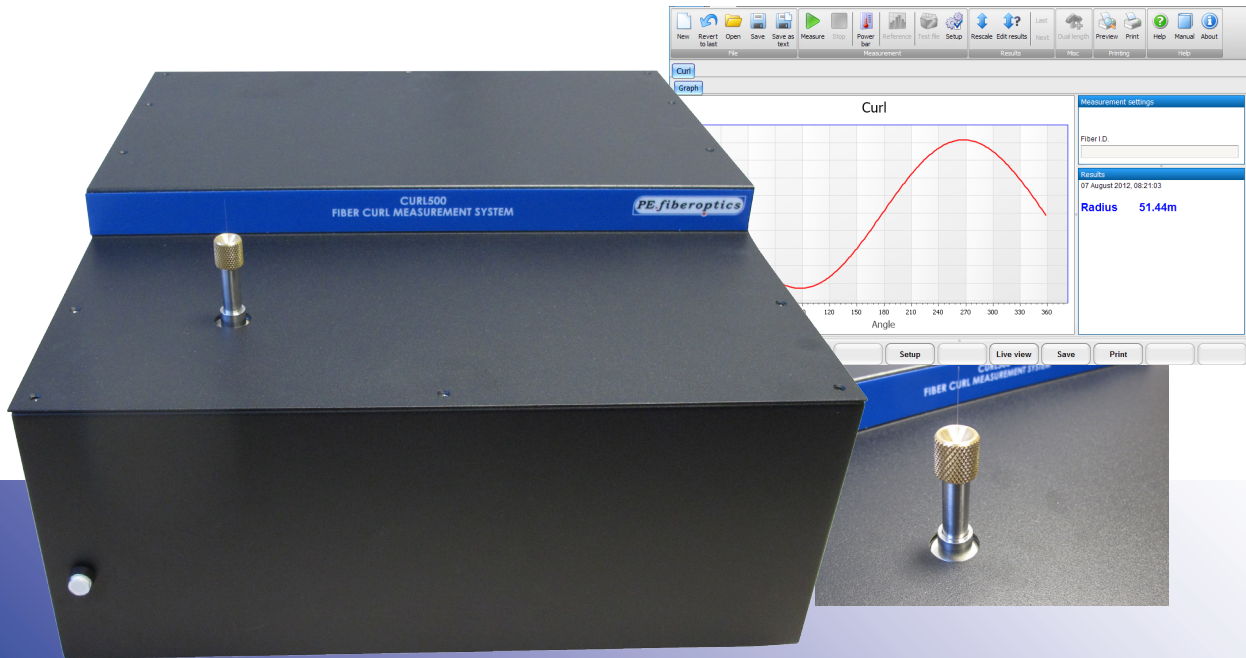


CURL500 Fiber Curl measurement system

NEW



Description

The **CURL500** Fiber Curl Measurement System is the latest addition to our 500 series product range.

The **CURL500** system uses industry standard laser scanning techniques as defined in IEC standards to provide fast and accurate characterisation of the radius of Curl for all types of optical fiber.

Features & Benefits

- Dual beam laser scanning makes measurements insensitive to mechanical and vibrational inputs.
- Real time acquisition and processing improves productivity.
- Simple sample preparation and loading with no focusing or optimisation of the sample required.
- Measurement as per IEC-60793-1-34
- 'PEcon' 500 series software running on Windows 7/8/10™.

Overview

Quality control of fiber curl is critical in the battle to improve the inter-connectivity between Ribbon structured fibers.

The **CURL500** provides a **High Resolution** measurement that is consistent in its results, independent of the operator and is a first choice tool for the QA manager keen to stay on top in the battle to maintain a quality and cost-effective production facility.

CURL500

Fiber Curl measurement system

Preliminary Specifications

Measurement technique

Dual laser beam scanning measurement as per IEC-60793-1-34.

Operation overview

- Two parallel laser beams separated by 10mm are projected onto the outer surface of the stripped optical fiber.
- A CCD camera monitors the spacing of the two laser beams reflected from the fiber surface as it is rotated.
- Curl in the fiber will cause the distance between the laser beams to vary as the fiber rotates.
- The software applies industry standard algorithms to the acquired data to yield the radius of the Curl
- The optics are calibrated with traceability back to NPL in the UK.

Specifications

Curl radius measurement range	0.7 to 99m
Resolution	<0.05m @ curl of 2.5m
Typical measurement time	<5 sec
Weight	12kg, plus PC

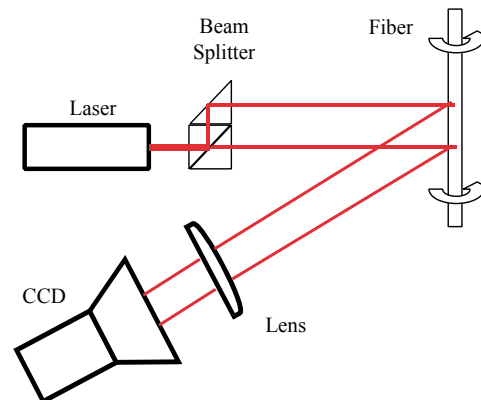
Ordering information

1.	CURL500	Measurement system for Fiber Curl.
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NB.

*All **PE.fiberoptics** products are designed and manufactured at our Wokingham facility in the United Kingdom.*

System case and packaging may vary from images provided.



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