

## OCT100 – Optical Crease Tester



- Bead
- Crease
- Cross section
- Embossing, de-embossing
- Multi-embossing/de-embossing
- Angle, multi-crease
- Creasing rule
- Network support \*
- Custom box template \*
- Enhanced crease definitions \*

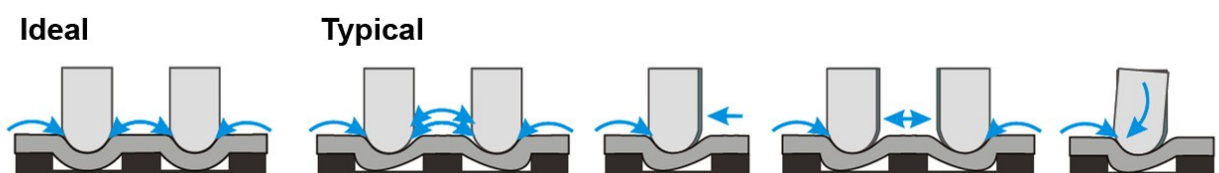
\* *Enhanced version*

### PRODUCT DESCRIPTION

Folding cartons are made of paperboard, a thick, paper-based multi-layer construction which contributes to the material's bending stiffness. To facilitate folding, a well-defined folding line or crease is produced. A perfect crease can be compared to a hinge and its aim is to produce the desired shape and function in a carton or in printed material. Uncontrolled variations in the creasing process can create defects that affect the appearance and function of the finished carton. Correct setup is critical to ensure a consistent product.

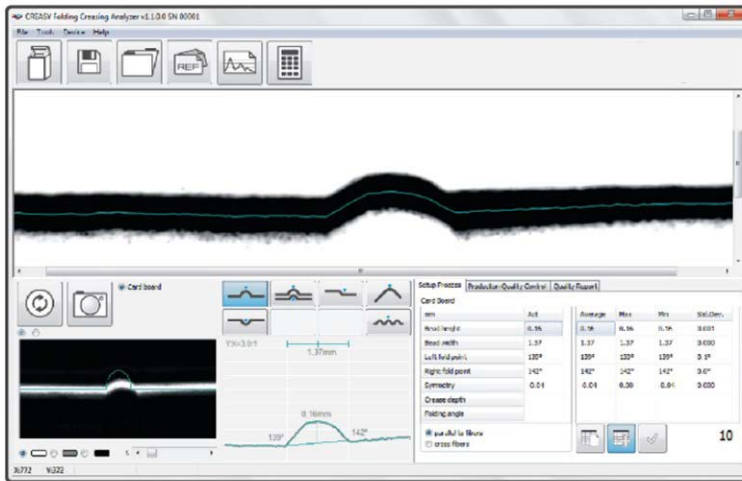
The Cerulean OCT is a new instrument that will measure and document the dimensions, angles, and symmetry of the crease and the bead. It is a camera based system which can be connected to a PC that is used to run the analysis and reporting software.

The instrument helps reduce packaging rejections due to cracks and splitting on folded products, non-uniform packaging boxes, cutting and creasing process variations. A wide range of measurement functions are available to the operator for the correct setup of the finished box at any point during the production process.

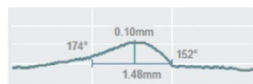


## TECHNICAL SPECIFICATION

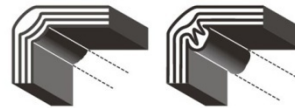
Electrical Requirements	5 V (via USB 2.0 or later)
Weight	420 g
Dimensions	50 mm (W) X 137 mm (L) X 35 mm (D)
Ambient Operating Temperature	10 - 40 °C
Humidity	30 to 90% RH non-condensing
Viewing Area	1 cm across the crease
Measurement Range height/depth	1.3 mm, from 0.65 mm to -0.65 mm
Illumination	White LED
Camera	BW / 1.3 Mbit
Connections	USB 2.0 (or later)
Accuracy	+/- 0.01 mm
Repeatability	+/- 0.01 mm
Measurement time	1 second (typical)
Measurement units	Inch / mm
Calibration / Verification	Target included



The Bead dimensions - a delamination parameter.



Fiber-fiber bonds between plies are broken to make creased area behave like a hinge.



Insufficient delamination  
Bead Binding Extensive  
Tension Spine fracturing  
or crease end splitting.

The Bead symmetry is driven by the folding point sharpness



# TECHLABSYSTEMS