Texture Analyzer

Texture Analyzer	
Tool Type: “Indenter”	
Location: “Elings Hall 2436”	
Supervisor	**Tool Lead**
Morgan Bates	“WW Name”
morganbates@ucsb.edu	“WW Email”
Description: “Texture Analyzer XPT Plus Connect	
Manufacturer: ”“	

About

The Lumen X, leverages digital light processing (DLP) printing to offer users high resolution, high throughput and high fidelity. The Lumen X divides 3D models into stacks of horizontal layers in the form of black and white image files. Using an industrial-grade visible-light projector, each image is projected onto a droplet resin on a polydimethylsiloxane (PDMS) vat. The illuminated regions react and solidify, then the build platform moves the cured layer up and out of the way, so that more resin can be cured with the next image.

Detailed Specifications

* **Maximum force:** 50 N
* **Force resolution:** +/- 0.1 mN
* **Maximum Z travel** 37 cm
* **Indentation speeds:** 0.01 - 40 mm/s
* **displacement resolution:** 1 µm

Safety Concerns

Read the manufactures manual before first use. If the BIO X Cellink acts in a way that is not described by the manual, turn off the printer and contact CELLINK.

- Never place your finger near the machine until all parts have stopped moving. Moving parts can cause serious injury
- Never clean or service the Texture Analyzer while it is on
- Always ensure that equipment is correctly mounted before use. Imporperly mounted print beds, printheads, cartridges, calbes liquid spouts and air spouts can be dangerous. If any equipment appears damaged, turn off the printer, unplug all connections and contact CELLINK.

Operating Procedures

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Reference Documentation

ta_manual.pdf

Training Documentation