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IDI Manufacturing Analysis

Overview

- A 3rd Party engineering firm compared IDI's technology with the incumbent LCD manufacturing process using internal models and data
- IDI's process can potentially use existing LCD tools and infrastructure, and may eliminate or combine some process steps and subcomponents
- IDI's process may have less critical geometries, and may require less in-process testing
- IDI's device may have higher optical transmission (estimated 6x higher efficiency)

Results of Modeling

- For the same unit volume module output as an LCD facility, IDI technology based process may:
 - require 61% of the manufacturing floorspace
 - require 62% of the operations headcount
 - result in a 15% increase in manufacturing yield (fewer and less complicated steps)
 - produce modules at 55% of the overall cost of goods sold (COGS)

Category	IDI / LCD COGS
Depreciation	65%
Materials	46%
Electronics	98%
Labor	54%
Maintenance	65%
Total	55%

COGS comparison for equal module output

From Pete Pappanastos