

Design for sustainability (DfS) scorecard



With our DfS scorecard, we drive sustainability improvement during the product development process through multiple product sustainability criteria divided into seven impact areas.

TLC Explorer

Documentation system – Small and portable device allowing safe and reliable TLC plate analysis



Impact areas

Results



MATERIALS

Illumination unit using a compact LED design in place of traditional mercury lamp
50-60% mass reduction due to smaller compact design
The standard setup requiring an external PC and monitor has been replaced with a built-in computer, complemented by a smartphone app for interaction.



SUPPLIERS & MANUFACTURING

100% of the product's upstream supply chain and manufacturing are covered by suppliers (Tier 1) who participate in the Together for Sustainability initiative with a valid assessment



PACKAGING

Product corrugated box has a sustainable forestry certification



ENERGY & EMISSIONS

Product was designed to minimize its energy consumption during operation by implementing LED technology, as well as an energy-efficient micro-camera, and a power-efficient 3Watt nano-computer.



WATER

No change compared to baseline product in consideration of our DfS criteria



USABILITY & INNOVATION

Modular patented design enabling maintenance by the customer, avoiding travel for a service technician to provide repairs
The handling system effectively prevents accidental UV exposure, thereby increasing user safety.



CIRCULAR ECONOMY

Lifespan of LED light is estimated at 7 years compared to 2 years for the traditional mercury lamp
Modular design allows for easy repair and replacement of components

Baseline product: Comparative TLC documentation units available on the market