

Laser biosensor component manufacturing yields less expensive, more precise, and more accurate test strips.

Biosensors play a vital role in monitoring healthcare throughout the world. It's estimated that over 151 million adults suffer with diabetes, not counting the millions of children that are similarly afflicted. Each year these patients use billions of disposable blood glucose test strips to constantly monitor their glucose levels and the status of their health.

Lasers are a key player in the development and manufacturing of next-generation biosensor devices. Lasers ablate thin film conductive coatings to create precise electrodes. These electrodes allow for more accurate results and give patients

the ability to more closely monitor their disease. Lasers also process polymer and adhesive materials, creating the additional layers needed to complete the disposable biosensor test strip assembly.

LasX uses lasers ranging in the near IR and UV wavelengths to perform the biosensor laser ablation process and create precise electrode patterns. Polymer and adhesive substrates are most commonly processed with a CO₂ laser.