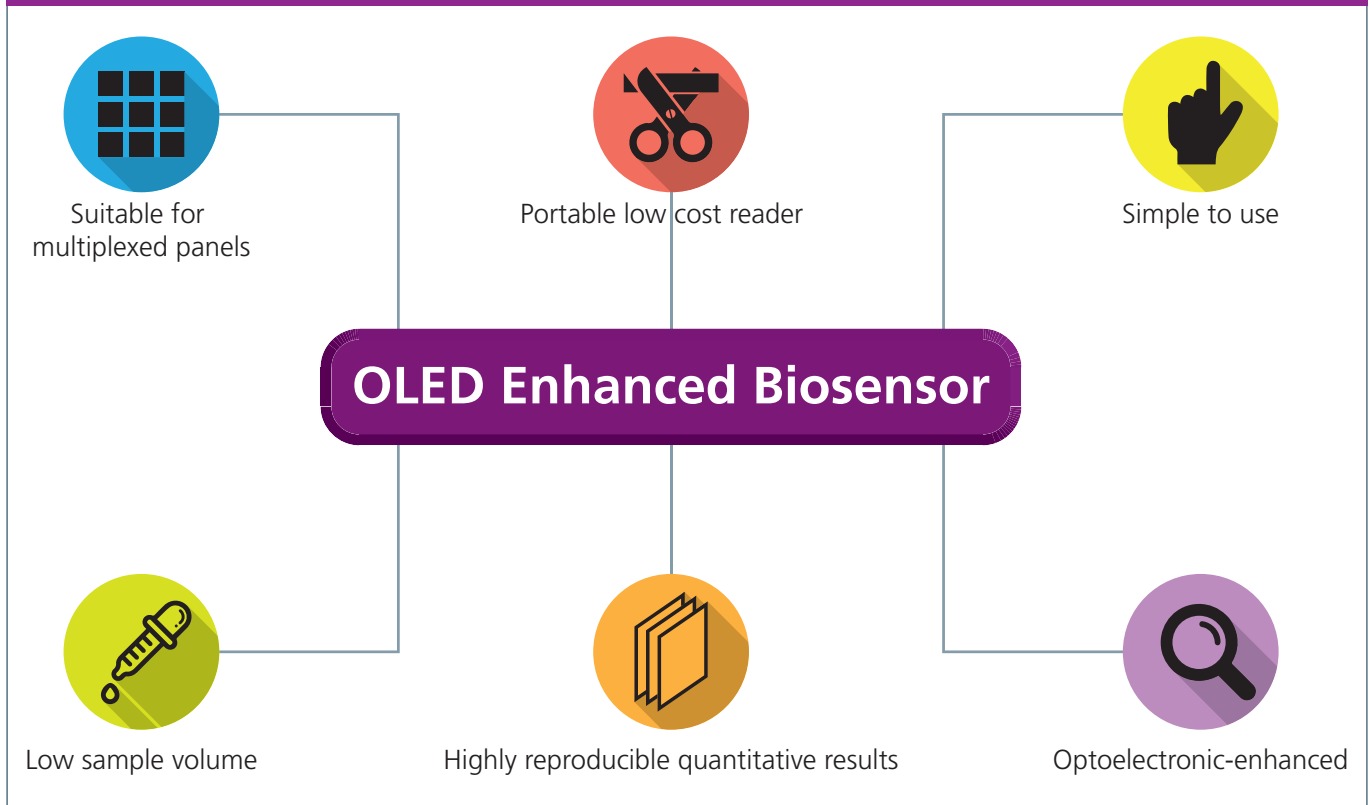


OLED Enhanced Biosensor

Integrated electro-optic immunoassay technology for point of care diagnostics

- works from a single, low volume sample
- enables a unique, quantitative and highly portable diagnostic platform

Technology features



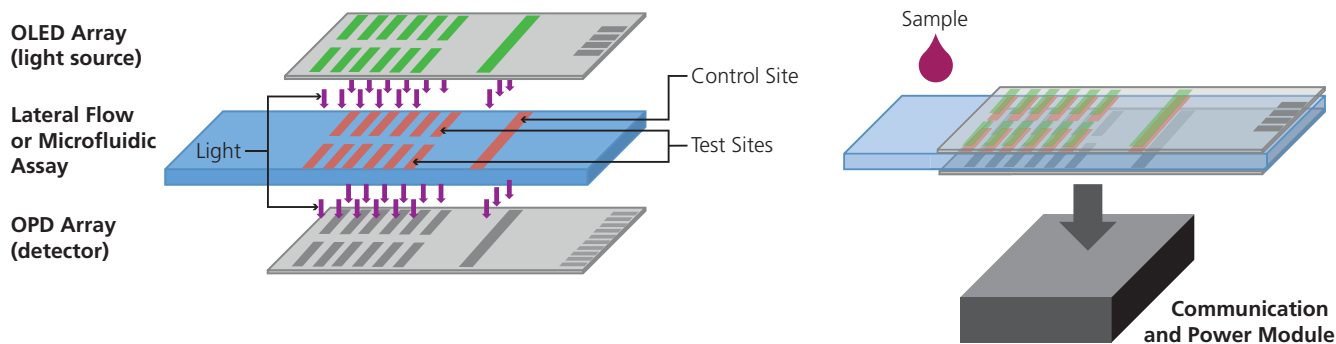
Applications across multiplatforms:

<p>Medical</p> <ul style="list-style-type: none"> Cardiac Cancer Infectious diseases 	<p>Agricultural</p> <ul style="list-style-type: none"> Nutrients Pathogens Pesticides Herbicide 	<p>Environment</p> <ul style="list-style-type: none"> Water Soil Run-off Pathogens 	<p>Bio-hazard</p> <ul style="list-style-type: none"> Security Defence Food safety Water safety 	<p>Drugs of abuse</p> <ul style="list-style-type: none"> THC MDMA Cocaine Methamphetamine
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OLED Enhanced Biosensor

A change in absorption (or fluorescence) in the light emitted by the OLED array due to captured tags on the test and control sites is detected by the OPD.

Data is collected and transmitted by the Communication and Power Module.



Performance table

	Typical characteristics
Test time	<10 mins
Sample volume	<300µL
Limit of detection	Lower than comparable benchtop reader e.g. detect Troponin at 10pg/mol rather than 100pg/mol under comparable conditions
Dynamic range	Better than comparable benchtop reader
Coefficient of variation	Better than comparable benchtop reader
Multiplex capability	10+

Indicative platform capability - values depend on assays.

Working with CDT

CDT can:

- Design and fabricate prototypes to meet your application needs
- Sample devices to trial in your product, application or processing
- Provide full life cycle testing in our on-site facilities

Commercial devices will be provided via a manufacturing partner – or CDT can provide technology transfer options for an in-house manufacturing option.

To discuss working with CDT, please email: enquiry@cdtltd.co.uk