

NEXT GENERATION
BIOANALYTICAL TECHNOLOGY



BLINK⁺DX

WE ARE DEVELOPING PLATFORM SOLUTIONS FOR TODAY'S CHALLENGES IN BIOANALYTICS AND DIAGNOSTICS. OUR ASSAY FORMATS ACCELERATE THE CREATION OF NEW DIAGNOSTIC TESTS AND ENABLE PROVISION OF A BROAD RANGE OF TEST OFFERINGS FOR DIFFERENT ANALYTES AND DISEASE CONDITIONS.

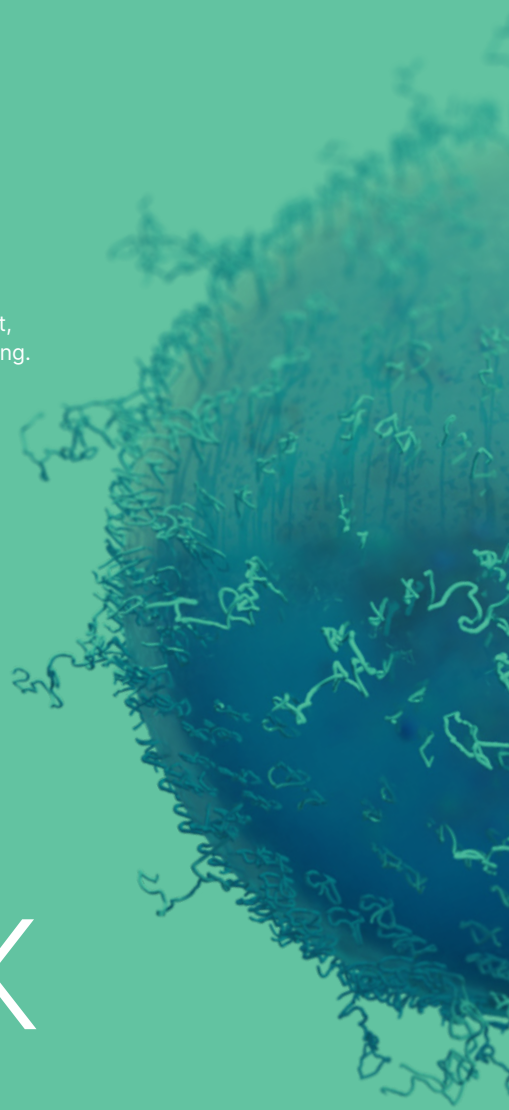
Our technology is coupled with an open access business model that enables developers, both large and small, to create a diverse and meaningful menu of tests. Our model reduces the cost to develop products and put them in the field, makes product development faster and makes it easier to put novel markers into clinical use.

BLINK's technology offerings comprise laboratory tools for efficient sample prep and multiplex digital PCR and a diagnostic product platform for point-of-care testing.

Developers can create complete products for research or diagnostics by combining their analyte specific reagents with the generic modules of the BLINK technology package. Additionally, individual modules can also be integrated into existing workflows or lab automation solutions.

Our technologies facilitate high throughput, precise analyte quantitation and multiplexing. One day our approach will make random access to broad test panels created on-demand on instrument systems placed across the healthcare continuum a reality.

BLINK[★]DX



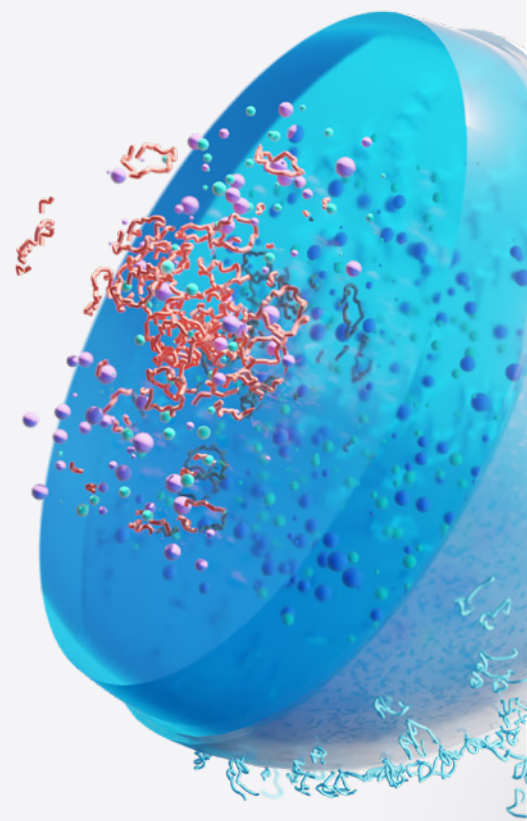
BLINK BEADS

OUR PRODUCT PLATFORM IS BUILT AROUND A NOVEL REAGENT FORMAT, THE BLINK BEADS. THE BEADS ARE MAGNETIC FLUORESCENCE ENCODED NANOREACTORS EQUIPPED WITH TARGET-SPECIFIC PRIMERS AND PROBES THAT FACILITATE DIGITAL MULTIPLEX ASSAYS.

They are comprised of a porous matrix that provides a surface for target binding and the space for the actual amplification and detection reaction. Thus a single Bead becomes the tool for a complete analysis workflow, including nucleic acid extraction and purification, target amplification and detection.

Beads equipped with different primers and probes can be combined to form multiplex panels. Each Bead remains an isolated nanoreactor throughout the amplification and detection process, becoming a digital compartment.

BLINK Beads can be easily loaded with analyte/target specific reagents. Different assays can be combined freely into complex digital test panels. This allows for three basic assay formats: A) Digital PCR Assay, B) Ultraplex and C) Sample Multiplex.



BASIC ASSAY FORMATS



DIGITAL PCR ASSAY

Microfluidics-free absolute target quantitation with pre-made Bead nanoreactors. Single molecule sensitivity with wide measurement range.



ULTRAPLEX

Ultraplexing is highly flexible and sensitive multiplexing. It provides fully quantitative detection for each target across the entire measurement range without cross-interference from other targets in the panel.



SAMPLE MULTIPLEXING

Selective encoding of individual samples with encoded Beads, allowing for parallel processing of multiple samples in one test assay.

BLINK X

BLINK X INSTRUMENT

A four-channel fluorescence imager with integrated thermocycling module for BLINK X Mini-plate

BLINK X SHAKER

A small vertical shaker for efficient transfer of BLINK Beads from aqueous solutions to an oil phase, providing for a stable Bead suspension and cross-talk free target amplification

BLINK X PROCESSING RACK

A magnetic rack for manual processing of BLINK Beads in microwell strips or tubes for nucleic acid extraction and purification

BLINK X LOADING RACK & MINI PLATE

A magnetic rack that accommodates the BLINK X Mini-plate. It facilitates simple loading of processed Bead samples onto the Mini-plate and alignment of the Beads in a self-assembled monolayer for detection.



BLINK ONE

BLINK X IS THE PATHWAY TO BLINK BEAD EXPLORATION, OPENING A WORLD OF POSSIBILITIES TO CREATE NEXT GENERATION FULLY INTEGRATED DIGITAL ASSAYS WITH UNPRECEDENTED PERFORMANCE.

The BLINK X is an integrated technology package that allows you to develop novel BLINK Bead test assays whether for your research, laboratory assays or with an eye to future product development on a fully automated platform such as the BLINK One for point-of-care use or other solutions for laboratory process automation.

Developers receive the BLINK X equipped with the BLINK Toolbox software package. The Toolbox is an assay design and development software platform that facilitates the development and validation of new assays on the platform. It is connected to the BLINK Hub, a cloud-based development portal managed by BLINK. The Hub provides for continuous documentation of achieved development results and gives access to template development documentation, technical test information and analysis software.

THE BLINK ONE PRODUCT PLATFORM IS BEING DEVELOPED TO ENABLE HIGH-CALIBRE DIAGNOSTICS WITHOUT LABORATORY INFRASTRUCTURE.

The One Analyser is a fully integrated instrument for processing BLINK Bead-based tests on the BLINK One Cartridge. The platform comprises a cartridge and analyser. The BLINK Toolbox software facilitates development and validation of new assays on the platform. The BLINK Hub data management system provides for continuous documentation of achieved development results.



IN AN EFFORT TO IMPROVE THE ACCESS TO HIGH-QUALITY DIAGNOSTICS, BLINK IS DEVELOPING TECHNOLOGY THAT PUTS THE POWER OF CREATION IN MORE HANDS AND PLACES DIAGNOSTIC TOOLS IN REACH FOR MORE PATIENTS.

Our mission is to establish an open access business model in IVD thus facilitating:

- Faster product development
- Lower barriers to introducing novel markers into clinical use
- Reduced development and deployment costs

Currently BLINK's technologies and products are accessible through strategic collaborations with BLINK as a development partner in selected application areas. Test developers and researchers will be able to develop their assays and applications independently on the BLINK X platform utilising validated components while maintaining design flexibility.



BLINK AG
Bruesseler Str. 20
07747 Jena
GERMANY

contact@blink-dx.com
Phone +49 3641 5542 100
Fax +49 3641 5542 200



BLINK-DX.COM

Find out more about
BLINK DX technologies
and products.