

Molecular Diagnostics

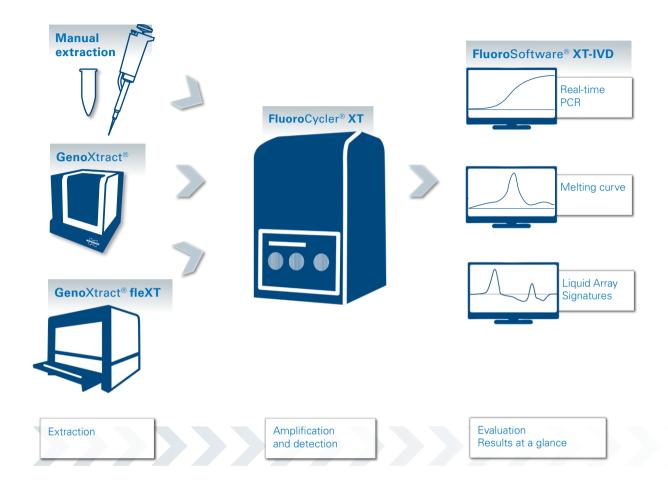


Benchmark in PCR Cycler Technology

The key to its unique, superior performance is the high-quality engineering and precision components that make it truly exceptional.



The FluoroCycler[®] XT with its ideal combination of optics, temperature control and sophisticated software ensures that the results are of the highest quality. Paving the way to bring more and more sophisticated assays, supporting multiplex and high throughput demands, to deliver the best in class, certified solutions for laboratory professionals in diagnostic laboratories across the world. Workflow



The FluoroCycler XT workflow is highly flexible, accepting a 96-well PCR plate from a variety of extraction techniques, including manual extraction, the GenoXtract[®], and the GenoXtract[®] fleXT and providing results at a glance in the form of real-time PCR, melt curve analysis and LiquidArray[®] signatures using the sophisticated and easy to use FluoroSoftware[®] XT-IVD.

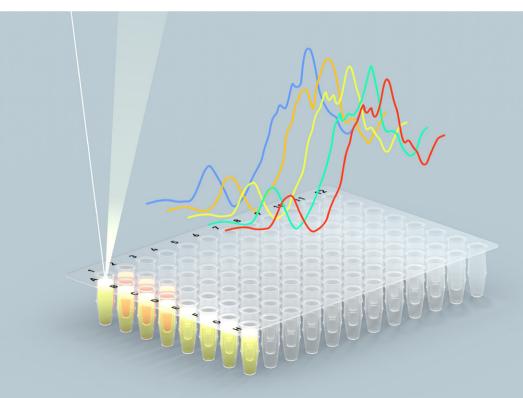
FluoroCycler XT What makes it so special?

Outstanding optics

The FluoroCycler XT utilizes high-quality optics, with outstanding optical alignment and specialized filters. This ensures highest precision and specificity, while allowing detection of all 5 channels per well in under 8 seconds. This results in a time saving for a multiplex PCR of up to 20 minutes. The resulting minimal cross-talk completely eliminates the need for additional color compensation kits. All five optical channels can be fully utilized, which, when combined with LiquidArray assays, allows unique signatures of up to 25 targets detected per well.

- Accurate results without extra colour compensation kits
- Fast results even for multiplex PCR
- Detect unique signatures per channel and per well

Optical alignment guarantees highest precision and specificity supporting generation of LiquidArray signatures



Exceptional well-to-well thermal precision

To generate high-quality results, there is a need for high-precision temperature control. The FluoroCycler XT can reach its target temperature fast and in a very controlled and stable fashion across all 96 wells. This ensures superb results today, and paves the way for future (multiplex) assays, designed with a significantly higher number of targets per optical channel.

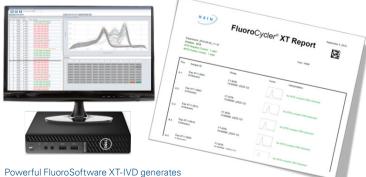
- Measurements you can rely on
- Reliably detect many targets simultaneously. To date: up to 45 mutations from a single PCR reaction
- Sequencing-like-results due to accurate detection of temperature-dependent signatures

Exceptional well-to-well thermal precision across all 96 wells. Precision: $\pm 0.2^{\circ}C$

Industrial industrial in

Integrated software for results at a glance. Instantly.

Integrated FluoroSoftware XT-IVD, is a powerful software using assay-specific Analyzers (key Analyzers based on machine-learning algorithms) that scrutinize fluorescence signature variations that are imperceptible to the human eye. The wizard-based software has been designed for ease of use and generation of instantaneous results. LIMS support ensures full and flexible integration in the existing laboratory environment.



comprehensive results and easy to interpret reports for results at a glance

- Minimal training needed for easy-tograsp software
- Reports provided instantly, at a glance in an easily understandable format
- LIMS support for smooth workflow integration

Comprehensive diagnostic solutions

A broad range of diagnostic assays are validated on the FluoroCycler XT with more in the pipeline. Generating for real-time, melting curve analysis as well as highly multiplexed LiquidArray signatures with sequence-like results.

• Single source for your diagnostic needs

 Growing portfolio tailored to meet evolving customer requirements

Mycobacteria

FluoroType® MTBDR VER 2.0 FluoroType® Mycobacteria VER 1.0

HIV & Hepatitis

GENERIC HIV CHARGE VIRALE GENERIC HBV CHARGE VIRALE version 2.0

Gastrointestinal

LiquidArray® Gastrointestinal

Respiratory Diseases

FluoroType® SARS-CoV-2 plus FluoroType® SARS-CoV-2 Q FluoroType® SARS-CoV-2/Flu/RSV FluoroType® Bordetella

Sexually Transmitted Infections

FluoroType® STI FluoroType® CT

Fungal Infections

Fungiplex[®] Aspergillus IVD Real-Time PCR Kit Fungiplex[®] Aspergillus Azole-R IVD Real-Time PCR Kit Fungiplex[®] Candida IVD Real-Time PCR Kit Fungiplex[®] Pneumocystis IVD Real-Time PCR Kit

Viral Infections

FluoroType® BKV FluoroType® CMV FluoroType® EBV FluoroType® HSV FluoroType® Parvovirus B19 FluoroType® VZV

Infectious Disease Monitoring

FluoroType® Borrelia FluoroType® MRSA-VER 3.0 Carbaplex® IVD PCR Kit

Human Genetics

FluoroType® Factor V FluoroType® Factor II FluoroType® MTHFR C677T FluoroType® HH C282Y FluoroType® HH H63D FluoroType® LCT FluoroType® HLA-B27

Technical Specifications

- Number of samples: up to 96
- Reaction volume: 10–100µl
- Temperature range: 10–100°C
- Thermal Block
 - Accuracy: $\pm 0.5^{\circ}$ C at 60°C Homogeneity (in liquid): $\pm 0.5^{\circ}$ C after 5s Precision (in liquid): $\pm 0.2^{\circ}$ C Ramp rate: Heating: > 2°C/s, Cooling: > 1.7°C/s
- Optics
 - Resolution: 0.2nm (2s Exposure Time) 5 excitation channels (455–694 nm) 5 emission channels (510–780 nm) Detection in all 5 channels in less than 8s 5-plex in one well Signal normalization by real-time reference diode Requires no colour compensation kit
- Dimensions: $430 \times 570 \times 730$ mm (W × D × H)
- Weight: approx. 65kg
- Software: FluoroSoftware® XT-IVD
- Order number: H-2017



Please contact your local representative for availability in your country. Not for sale in the USA.



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GENERIC HIV CHARGE VIRALE and GENERIC HBV CHARGE VIRALE version 2.0 Biocentric SAS, 276 Chemin de Roumpinas, 83150 Bandol, France GenoXtract® fleXT II Hamilton Bonaduz AG, Via Crusch 8, CH-7402 Bonaduz, Switzerland Fungiplex® and Carbaplex® IIBruker Daltonics GmbH & Co. KG, Fahrenheitstraße 4, 28359 Bremen, Germany

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Online information bruker.com/microbiology



Hain Lifescience GmbH

Nehren · Germany Phone +49 (0) 7473-9451-0

info.mdx.de@bruker.com hain-lifescience.de