

**Molecular Diagnostics** 

# FluoroCycler® XT

Benchmark in PCR Cycler Technology

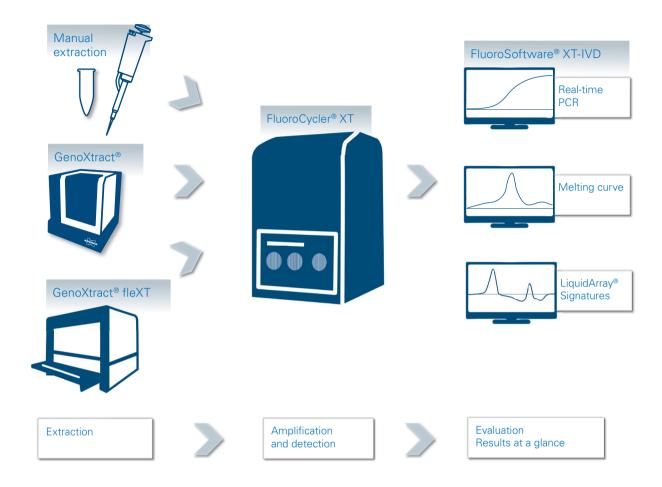
The key to its unique, superior performance is the high-quality engineering and precision components that make it truly exceptional.

The FluoroCycler® XT with its ideal combination of optics, temperature control and sophisticated software ensures high quality results you can trust.

Paving the way to bring more and more advanced 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

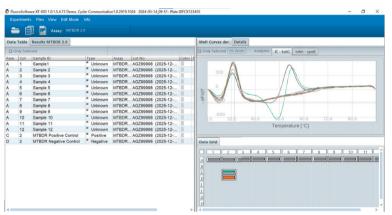


The FluoroCycler® XT workflow accepts a 96-well PCR plate from a variety of extraction techniques, including manual extraction, the GenoXtract®, and the GenoXtract® fleXT. Using the sophisticated and easy-to-use FluoroSoftware® XT-IVD, an automatic report is generated providing consistent results at a glance from real-time PCR, melt-curve and LiquidArray® signature analysis.

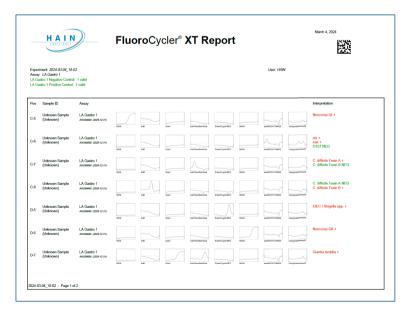
# FluoroCycler XT What makes it so special?

#### **Consistent results with minimal training**

Integrated FluoroSoftware XT-IVD, is a powerful software. The wizard-based interface guides users, minimizing chances of error and generating instantaneous results at a glance.



Detailed data available for in-depth analysis



Results at a glance: Fully automated analysis with FluoroCycler® XT enables consistent reporting with minimal user interpretation.

- Minimal training needed to operate easy-to- grasp software
- Results at a glance in standardized, easily understandable reports
- LIMS support for smooth workflow integration

# Time-saving state-of-the-art analysis producing top quality results at a glance

Assay-specific Analyzers (with key Analyzers based on machine-learning algorithms) scrutinize fluorescence signature variations that are imperceptible to the human eye – providing results that were previously undetected.

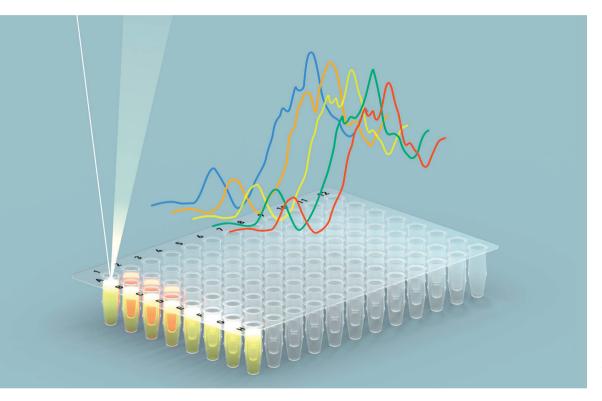
#### Easy integration to YOUR workflow

LIMS support ensures full and flexible integration in the existing laboratory environment.

#### Results you can trust

The FluoroCycler XT utilizes high-quality optics, with outstanding optical alignment and specialized filters. This ensures highest precision and specificity, with detection in all 5 channels per well. The resulting minimal cross-talk completely eliminates the need for additional color compensation kits.

- Accurate results without extra colour compensation kits
- Detect unique signatures per channel and per well across the entire temperature range



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

Exceptional well-to-well thermal precision across all 96 wells. Precision: ± 0.2°C

#### More insights from a single test

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
- To date: detect up to 45 mutations from a single PCR reaction
- Sequencing-like-results due to accurate detection of temperature-dependent signatures

## Comprehensive diagnostic solutions

The FluoroCycler XT supports a broad range of dedicated, IVD-validated assays.

Supporting real-time, melting curve analysis as well as highly multiplexed LiquidArray signatures with sequence-like results.

- Bruker validated workflow
- Single source for your diagnostic needs
- Growing portfolio tailored to meet evolving customer needs

#### Mycobacteria

FluoroType® MTBDR VER 2.0 FluoroType® Mycobacteria VER 1.0 LiquidArray® MTB-XDR 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 Q FluoroType® SARS-CoV-2/Flu/RSV

#### **Sexually Transmitted Infections**

FluoroType® STI FluoroType® CT FluoroType® HSV

#### **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
Fungiplex® Mucorales IVD Real-Time PCR Kit
Fungiplex® Candida Auris (RUO) Real-Time PCR Kit\*
Fungiplex® Universal (RUO) Real-Time PCR Kit\*

<sup>\*</sup>For Research Use Only

#### **Antimicrobial Resistance**

Carbaplex® IVD PCR Kit FluoroType® MRSA-VER 3.0

#### **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 96Reaction volume: 10–100µl

■ Temperature range: 10–100°C

Thermal Block

Accuracy: ± 0.5°C at 60°C

Homogeneity (in liquid): ± 0.5°C after 5s

Precision (in liquid): ± 0.2°C Ramp rate: Heating: up to 2°C/s,

Cooling: up to 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 Signal normalization by real-time reference diode Requires no colour compensation kit

• Dimensions:  $430 \times 570 \times 730 \text{ mm} (W \times D \times H)$ 

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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LiquidArray® Gastrointestinal, LiquidArray® MTB-XDR VER 1.0, FluoroType® MTBDR VER 2.0, FluoroType® STI VER 1.0, FluoroType® HLA-B27 VER 1.0, FluoroType® HLA-B27 VER 2.0, FluoroType® CT VER 1.0, FluoroType® CMV VER 1.0 and FluoroType® CMV HT VER 1.0 are (  $\mathbf{E}_{\mathbf{E}}^{\infty}$  | IVD

GENERIC HIV CHARGE VIRALE and GENERIC HBV CHARGE VIRALE version 2.0 are

Fungiplex® Candida Auris RUO Real-Time PCR Kit and Fungiplex® Universal RUO Real-Time PCR Kit are RUO They are not for use in clinical diagnostic procedures.



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