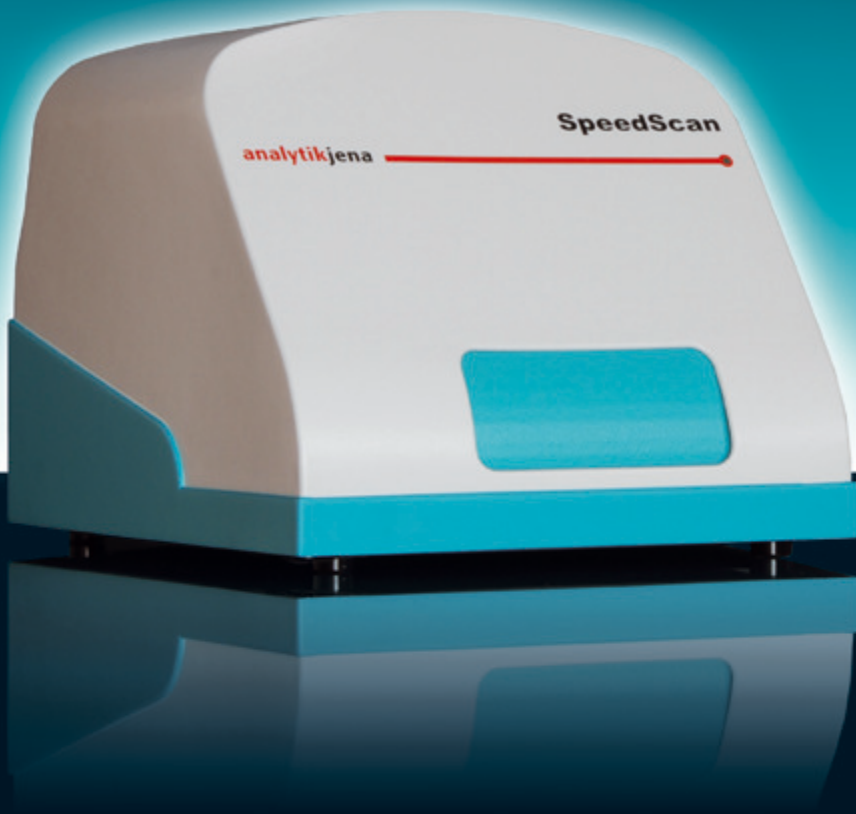


SpeedScan | Fluorescence Reader

- Fast PCR fluorescence detection
- Ideal for diagnostic applications
- Simple & clear software

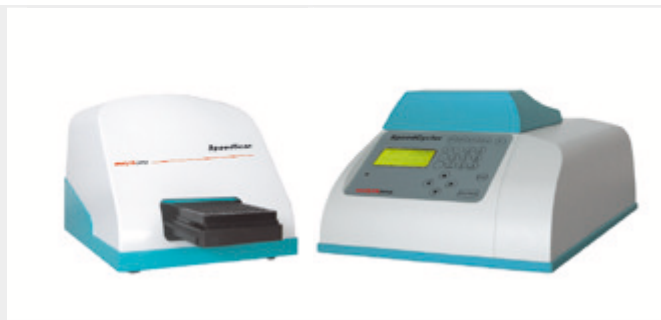


SpeedScan | Fluorescence reader

Fast fluorescence detection of PCR products

The polymer chain reaction (PCR) is one of the absolutely key technologies in modern biological research and molecular diagnostics. Its absence in any biological laboratory is unimaginable. The demands placed on apparatus in the PCR laboratory to guarantee reliable analyses at all times are on the increase, along with the number of PCR applications in routine laboratory work.

The type of detection therefore has a crucial influence on the reliability and interpretation of PCR results. The agarose gel used in electrophoresis detection of PCR products is, for example, especially prone to the latent risk of contamination of samples and the laboratory and consequently false-positive results.



Combination of rapid by SpeedCycler (right) and fast detection of products through SpeedScan (left)

It does not always have to be realtime PCR

SpeedScan is a fluorescence reader specially designed for easy determination of PCR products. After successful amplification of the target, direct qualitative evaluation of the PCR can take place by means of fluorescence detection without opening the reaction vessel. The risk of contamination is therefore significantly restricted.

Particularly for diagnostic applications, simple Yes/No statements are frequently sufficient, e.g. in demonstrating the presence of a microorganism in a clinical sample as evidence of an infection. This is an application for SpeedScan.

The system represents an excellent and cost-effective alternative to expensive real-time PCR systems. SpeedScan is ideally suited as a supplement to existing thermocyclers.

- Fluorescence reader for easy measurement of PCR products
- Cost-effective alternative to expensive real-time systems
- Ideal for diagnostic applications (Yes/No statements)
- Significantly reduced risk of contamination

Application example for the combination of timesaving rapidPCR by SpeedCycler and following detection through SpeedScan:

- Verification of genetically changes (Mutations, SNP Diagnostic)
- HLA typecast
- Bacteriological verification (rapid MRSA Tests, Food-Pathogens)
- Virus Detection, (H5N1)
- Assay Development on request

High speeds and flexibility

PCR end-point detection offers further essential advantages. The introduction of rapid thermocyclers, such as the SpeedCycler, allows typical amplifications to be performed in down to 8 minutes. Traditional gel electrophoresis with a running time of 30–45 minutes plus preparation therefore represents a time restraint. However, the read-out of a 96 well PCR plate with SpeedScan is completed after 50 seconds per colour channel. SpeedScan can record up to 4 different fluorescence filters, which makes it ideally suited for multiplex applications. Naturally the fluorescence filter is free to use and exchange

- Up to 4 different fluorescence filters preinstalled
- Many times faster than gel electrophoresis
- Only 50 seconds read-out time per colour for a 96 well plate
- The ideal supplement for existing thermocyclers

ASpect FA - simple and clear

Intuitive, fast and easy operation are hallmarks of the SpeedScan software. It not only controls the measurement processes, but also permits an extensive, GLP-complaint evaluation, a user management and also allows user rights to be assigned.

- Configurable graphic representations of all recorded data
- Freely selectable colour channels and linkage with individual evaluation criteria, storage for reuse as user-defined templates
- SNP Detection evaluation algorithms
- Bilingualism at the press of a button
- Context-related online help
- User management and audit trail