

The logo for 'xxpress' features the first two 'x's in a teal color and the remaining 'press' in a dark blue color. A registered trademark symbol (®) is located at the top right of the word.

**xxpress<sup>®</sup>**

**The World's Fastest qPCR System**

## Intuitive User Interface

xxpress® has an intuitive touch screen user interface that has been designed to mimic the way biotechnologists develop their experiments.

The software guides the user through the experiment, selecting reagents, PCR type, plate format and thermal profiles.

Thermal profiles are provided for most standard reagents, which can simply be adjusted if required. During cycling, xxpress® displays the result curves in real time, results can be analysed and exported.

The USB security key can store a user's preferences, profiles and results. This data key also enables the remote preparation of experiments and analysis of results on a PC, maximising machine availability and throughput.



## Outstanding Return on Investment (ROI)

xxpress® can do the work of up to 6 conventional thermal cyclers. With a cycle time of less than 10 minutes, up to 5 experiments can be completed per hour, more than 40 in a single shift.

Optimal use of reagents and staff time reduces the cost-per-test significantly, making it Best in Class.

Using a touch screen and built-in advanced computer, xxpress® is completely self-contained without need of an external computer.

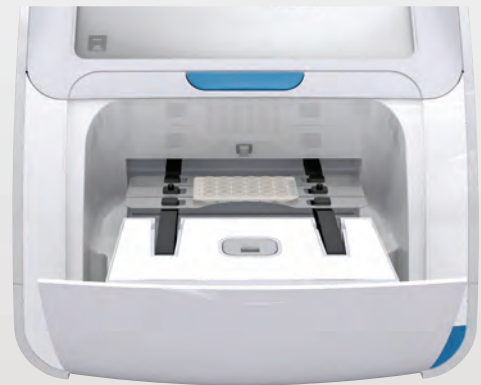
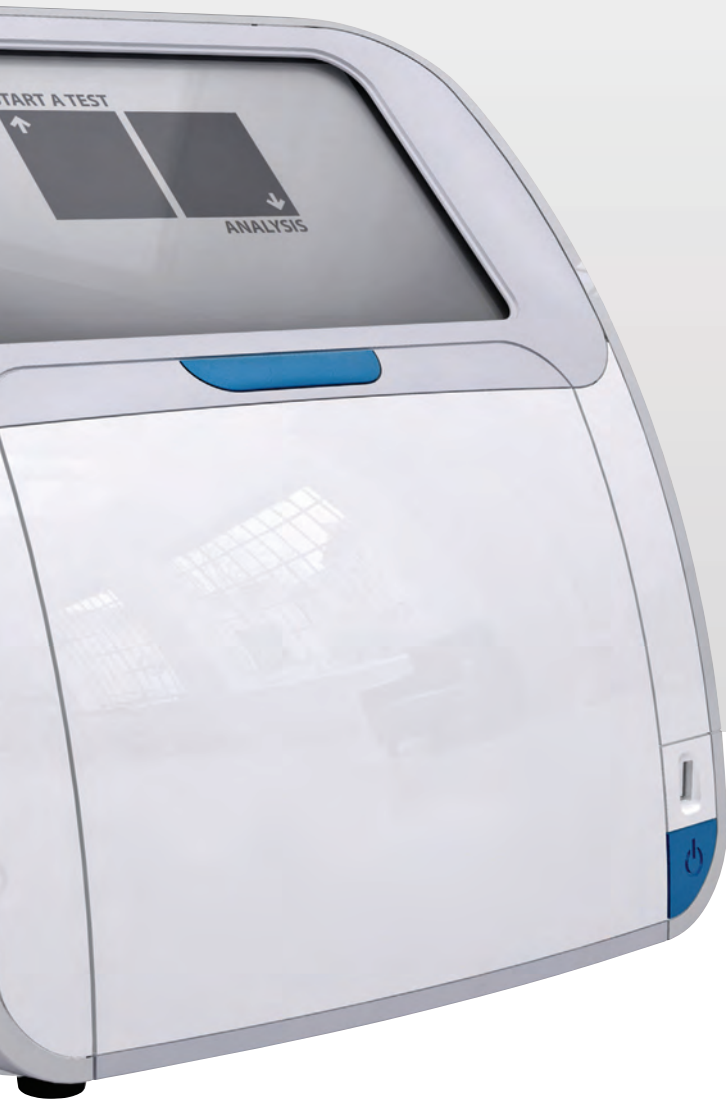
The ability to plan and analyse experiments remotely means xxpress® is, if required, always available to run tests.

## Thermally Accurate

Thermal uniformity across all the samples to better than  $\pm 0.3^{\circ}\text{C}$  during cycling.

An array of highly accurate infrared sensors to measure temperature in "sample".

A patented control algorithm adjusts the heating patterns at a rate of 100 times a second to ensure the thermal uniformity.



## Speed

With a thermal ramp rate of up to  $10^{\circ}\text{C}$  per second, **xxpress**<sup>®</sup> is the fastest, real-time thermal cycler in the world.

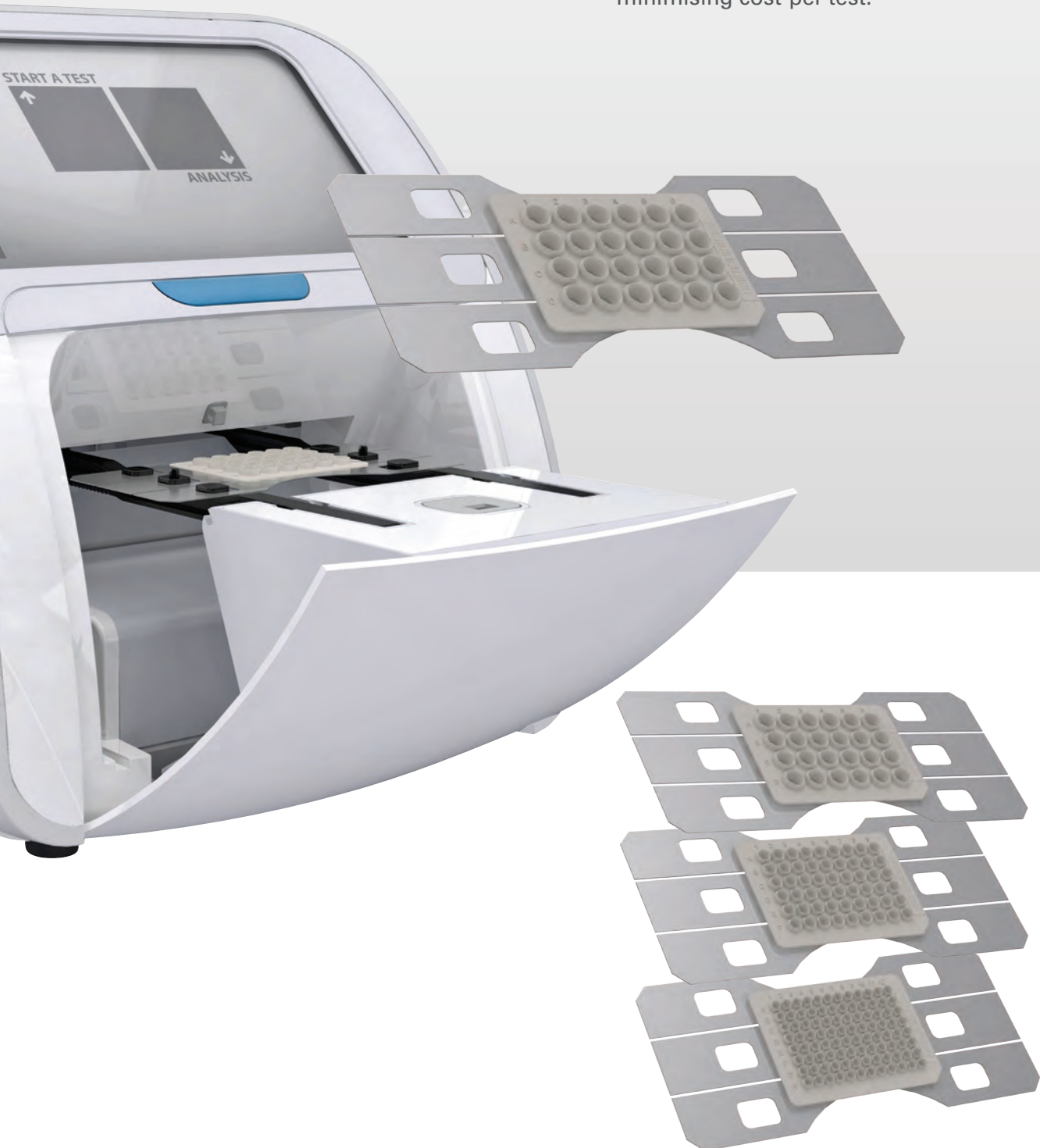
Capable of delivering 40 cycle qPCR in less than 10 minutes.

With ultra-low thermal mass and high conductivity, **xxpress**<sup>®</sup> patented resistive heating system delivers its performance more efficiently and with greater accuracy than conventional based solutions.

## Test Plates

xx™ plates are available in a range of sizes, 24, 54 and 96 well.

Based around a standard form, xx™ plates are interchangeable and xxpress® will recognise which size is inserted and its orientation. The range of xx™ plates cover sample volumes from 0.5µl to 40µl, allowing optimal use of reagents, so minimising cost-per-test.



The BJS Group was formed over 60 years ago.

Through innovating both its processes and products the Group now supplies a wide range of industries around the world. Specialising in the manufacture of precision electroformed components and precious metal plating, BJS is today the largest Hard Gold Plater in the world.

In 1991 BJS began producing electroformed silver thermal cycler blocks for the world's leading PCR equipment manufacturers.

BJS Biotechnologies was formed in 1996 to develop the next generation technology for heating and cooling traditional thermal cycler blocks. This work led to the development of the totally new, patented resistive heating technology, **xxpress®**, which is used exclusively in the **xxpress® qPCR thermal cycler**.

**xxpress®** uses a new patented, low cost consumable, the **xx™** plate.

Based on thin aluminium sheet, **xx™** plates have very low thermal mass and so can heat and cool samples by up to 10°C per second.

**xxpress®** technology and **xx™** plates combine to make the **xxpress® thermal cycler the fastest, most thermally accurate, qPCR thermal cycler in the world**.

Testing has been carried out at BJS and other research laboratories to ensure **xxpress®** meets and exceeds the needs of today's biotechnologists.

## Technical Specification

**Up to 5 PCR cyclers per minute with fluorescence measurement every cycle.**

**Thermal ramp rate of 10°C per second, utilising patented resistive heating.**

**Thermal uniformity across the sample plate producing better than  $\pm 0.3^{\circ}\text{C}$  during cycling.**

**Temperature range ambient to 99°C.**

**Temperature accuracy of  $\pm 0.3^{\circ}\text{C}$  "within sample".**

**Five colour multiplexing fluorescence detection.**

**Interchangeable test plates are available in 24 well (5-40 $\mu\text{l}$ ), 54 well (3-15 $\mu\text{l}$ ) and 96 well (0.5-5 $\mu\text{l}$ ) formats.**

**Intuitive user interface.**

**Dimensions: W 300mm, H 320mm, D 590mm.**


For further information and to have a personal demonstration of **xxpress**<sup>®</sup> please contact your local distributor.


### **BJS Biotechnologies Ltd**

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**Your local distributor**