

# CAS-1200<sup>™</sup>

automated PCR setup

a Compact Robotic Workstation for Precision Liquid Handling

www.PCRsetup .com



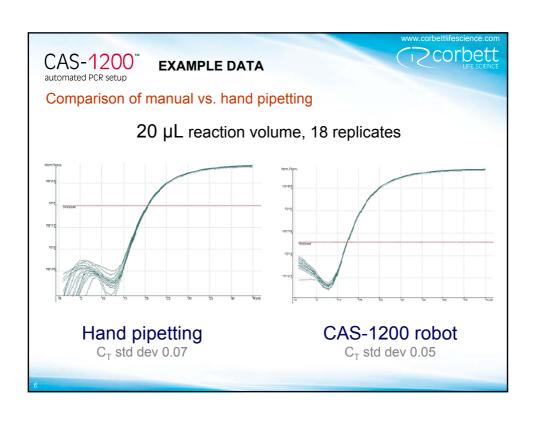
# CAS-1200 automated PCR setup Addresses the precision demands of quantitative PCR setup Compact size Easy to use Extremely versatile Inexpensive to own and operate

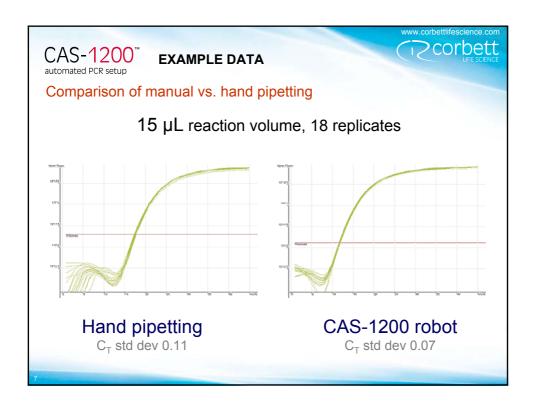


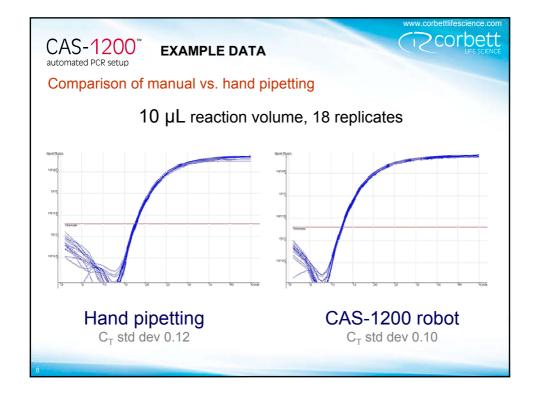
### Why Automate PCR Set-Up?

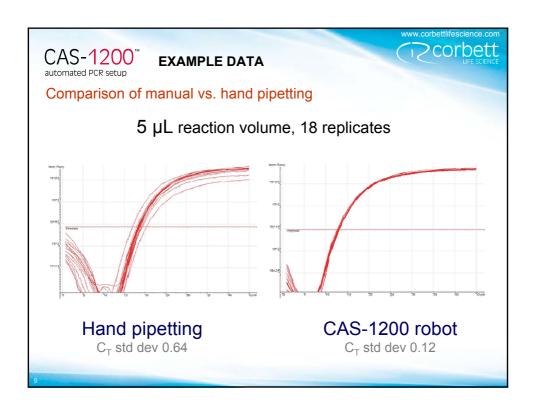
- Better reproducibility day-to-day, laboratory-to-laboratory
- Reduce artefacts from human error
- Reduce Costs
   Use smaller reaction volumes
   Fewer mistakes mean fewer repeat experiments
- Reduced risk of repetitive strain injuries for staff
- Set-up is the least fun, but most critical part! The more experienced and careful you are the better the real-time PCR results—leaving it to a robot makes sense

### corbett CAS-1200<sup>™</sup> EXAMPLE DATA Setup of a 2-fold Quantitative Amplification Series ⊕ Human genomic DNA template diluted into 2-fold standards by the CAS-1200 0.4 Amplification reactions were set up in replicates of four by the CAS-1200 using human dilutions as template ◆ Target: human BCL-2 gene 0.1 ◆ Rotor-Gene 6000 real-time rotary analyzer was used for amplification and analysis + Plots show tight replicates with expected one-cycle difference between each 2-fold dilution B=35.985 Efficiency=1.02 ◆ Standard curve for this experiment is shown with statistical data (boxed)





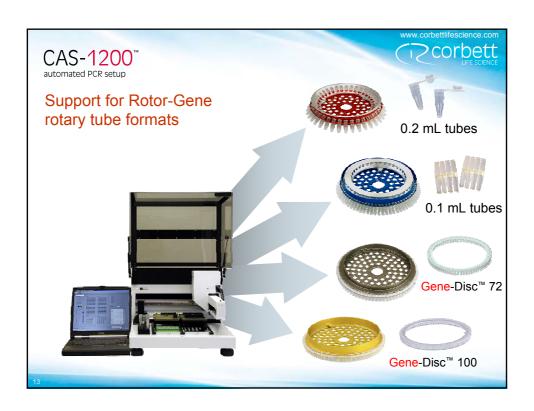




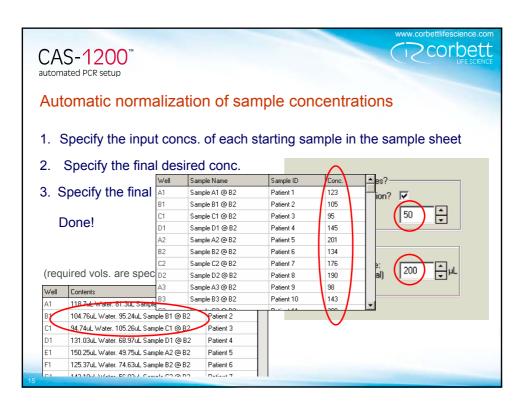














## CAS-1200™

### **Pipetting**

- Single pipetting head
- + Pipette volumes as low as 1 μL
- $\Phi$  < 1% C.V. at 5 µL vol.
- Uses filtered Tecan or Capp style 50 μL and 200 μL tips
- Conductive tips are supported with optional liquid level sensing



corbett

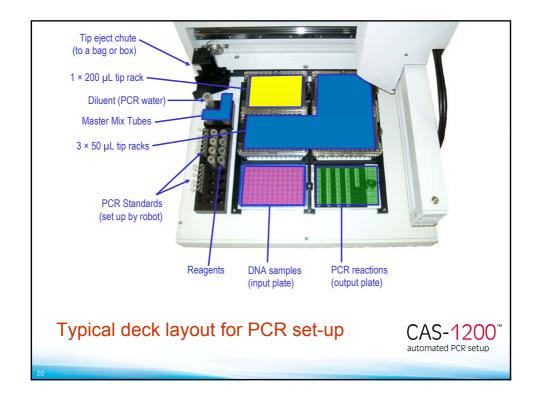
Ready-racked Capp style tips

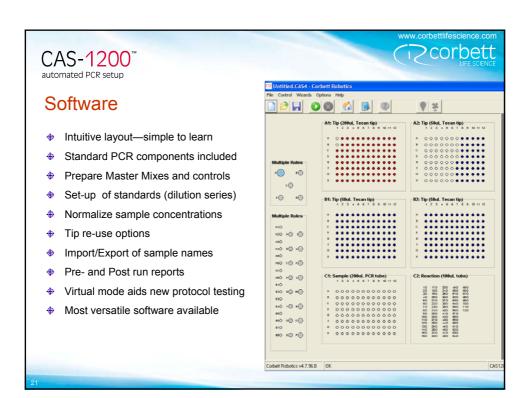


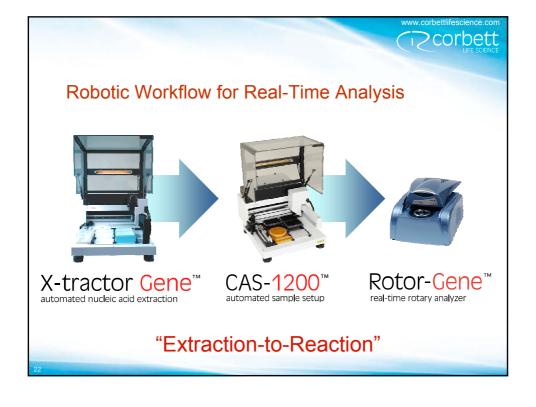
Tecan Genesis style conductive tips

# CAS-1200 automated PCR setup Liquid level sensing (LLS) Φ Optional circuitry Φ Uses conductive tips (black, carbon impregnated) Φ Liquid sensing as low as 10 μL Φ Curbs tip immersion artifacts











### Standard objections to robotics

### Luxury—only for big labs

- CAS-1200 costs less than a real-time instrument
- Introduces a new generation of *personal* robotic workstation

### Running costs are too high

- Robotic tips are now similar in cost to regular tips
- In fact, overall **savings** can be made on reagents & fewer repeat expts.

### Robots are too big—"we have no space"

• Only 49 cm (19.3") wide—a fraction the size of similar equipment

### Difficult to use/can't be bothered learning to use it

• Try the software and see! We are happy to arrange a demonstration.

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### Summary

- Low cost, small, simple to operate personal robot
- High precision for real-time PCR setup
- Low volume reaction setup saves reagent cost
- Useful for many laboratory projects
- Reduce human error and repetitive strain injury issues
- ♦ Versatile; set up in 96-well, 384-well or wide range of other tube types
- Single head for precision and cherry-picking of any sample
- Optional Liquid Level Sensing, UV light sterilization & HEPA filter options







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