



Find out what “best practice” means
Immediate test results – better health treatments

Closer to Care.



32.4 cm (12.75 in.)

20.3 cm (8 in.)

15.2 cm (6 in.)

Discover the great features of a small analyzer

Small on space – big on accuracy

Compact and portable, the Piccolo xpress™ is easy to incorporate into your practice. Your Piccolo lab could actually fit on this page – it allows you to perform routine blood tests in virtually any treatment setting with the precision and accuracy of large laboratory analyzers.

- Small footprint measures 32.4 cm (12.75 in.) x 15.2 cm (6 in.) x 20.3 cm (8 in.)
- Gold-standard “wet chemistry” results are measured on 9 different wavelengths
- Advanced technology uses centrifugal and capillary forces to mix and dilute reagents and sample in a self-contained, disposable disc
- Onboard intelligent Quality Control system (iQC™) ensures reliable results
- Each reagent disc is bar-coded for automatic self-calibration

Easy operation – fast results

The Piccolo xpress™ is a fully automated system that delivers complete chemistry panel results in 3 simple steps and approximately 12 minutes.

- Only 30 seconds hands-on time
- Walk-away operation
- No daily liquid controls
- iQC™ system performs comprehensive quality checks with every test run
- No special operating skills required
- Small sample size (100 µl of whole blood, serum or plasma)
- Results are printed on a self-adhesive hard copy or via electronic transfer, allowing immediate access to critical information at the point-of-care
- Direct compatibility supported with USB peripherals including bar code readers, keyboards, personal computers, LIS, and printers
- CD software and drive make testing upgrades easy
- Delivers on-site laboratory results



Capitalize on expanded efficiency

Incorporate the Piccolo xpress™ into your practice, and realize the benefits immediately. Get reference-lab quality results in about twelve minutes – eliminating the time-consuming, error-prone process of sending samples to a laboratory and waiting for results. Get the information you need to make confident clinical decisions immediately – saving your valuable time and increasing patient satisfaction.

Maximize efficiency

- Eliminate patient follow-up at a later date
- Review lab results with the patient on the spot
- Accomplish in one appointment what used to take two

On the spot lab results (without the lab)

With the Piccolo xpress™ you can perform the most sought-after pre-configured chemistry panels using 100 µl of whole blood, serum, or plasma and get accurate results in approximately 12 minutes.

- Onboard intelligent Quality Control complies with worldwide proficiency standard requirements (e.g. CLIA* standard – FDA**) and ensures reliable results
- Results are printed on a self-adhesive hard copy or electronically transferred to a Laboratory Information System or an Electronic Medical Record
- CLIA*-waived lipids, liver enzymes, electrolytes and more

Identify new revenue streams and enhance office profitability

Why send your patients to a lab when you can bring the lab to your patients? With on-the-spot chemistry testing, you can:

- Stop wasting valuable staff time obtaining commercial or hospital lab results
- Benefit economically – and not only from reimbursement for the lab tests
- Capture revenue streams resulting from increased health awareness and the propensity to invest in health care

*CLIA: Clinical Laboratory Improvement Amendments

**FDA: Food and Drug Administration



Let superior quality do a real good job for you

Piccolo xpress™ reagent discs make testing easy

While you spend your valuable time on patient consultations, here is what the Piccolo xpress™ reagent disc does for you:

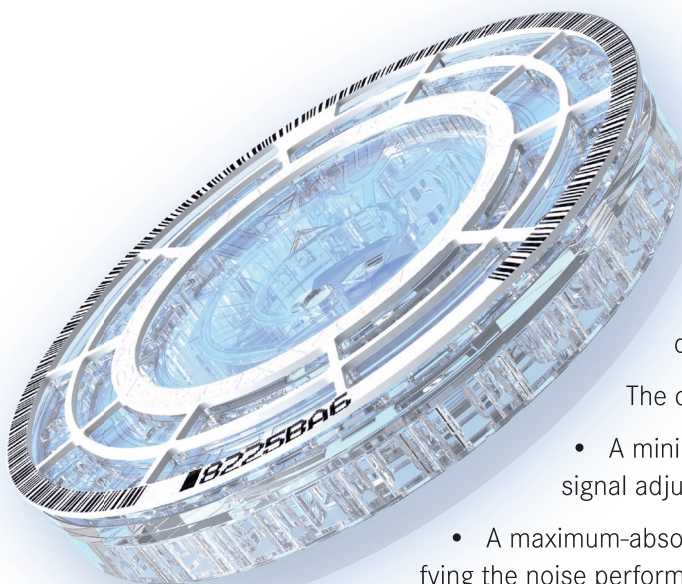
It contains components that are integrated with the optical, electronic, and mechanical functions of the analyzer, and takes part in all phases of the analysis of the sample. The bar code on the top surface of each disc encodes the type of the test panel, lot number, expiration date, and the reagent calibration

factors. At the beginning of the run the integrity of this information is verified by the use of a cyclic redundancy check (CRC). The disc works with the analyzer's optical and electronic components in the calibration of the signals and rigorous checks of system functioning. Sophisticated fluidics are employed to measure and mix the sample and diluent, and deliver them at precisely the right time to cuvettes located around the disc periphery.

The cuvettes have specialized functions:

- A minimum-absorbance cuvette is used in signal adjustments that optimize sensitivity
- A maximum-absorbance cuvette is used in quantifying the noise performance of the electronic components to ensure the accuracy of all readings
- 1 cuvette contains reagent beads for chemistry QC
- 2 cuvettes contain dye beads for instrument QC
- 1 "empty" cuvette fills with diluent only, as a control on the system cuvettes
- 21 cuvettes contain test-specific lyophilized reagent beads
- 2 cuvettes verify the presence of sufficient sample and diluent, respectively
- 1 cuvette verifies that diluted sample was delivered to all the reaction cuvettes
- The disc contains miscellaneous reservoirs to isolate excess fluids

This self-calibration of the bar-coded reagent disc eliminates time-consuming and potentially error-prone manual calibrations.



Confidence in every test result – documented

intelligent Quality Control – iQC™

Along with fully automated processing and onboard data handling, the Piccolo xpress™ incorporates a unique process called iQC™. Transparent to the operator, iQC™ checks the analyzer, the reagent disc, and the sample during each run to verify correct electronic and chemistry performance.

- iQC™ automatically suppresses any single chemistry test or the entire panel if it detects uncharacteristic performance
- Error codes or messages immediately alert the operator to any problems
- iQC™ performs hundreds of QC checks automatically and simultaneously with every disc run and ensures that only accurate and reliable results are reported

How iQC™ ensures accurate and reliable results

In the Piccolo xpress™, 100 µl of whole blood, serum, or plasma is inserted directly into the single-use, self-contained reagent disc, where sample preparation is handled automatically. All reactions, including analyte, reagent and instrument QC testing, occur in solution within tiny cuvettes on the periphery of the disc. The Piccolo xpress™ generates powerful flashes of full-spectrum white light and measures absorption for each reaction at multiple wavelengths. To ensure accurate results, iQC™:

- Verifies the composition and delivery within the disc of all substances involved in the chemical reactions
- Validates the performance of the light-generating and detection components of the analyzer
- Audits the conversion of the light absorbance into digital values for use in mathematical algorithms

Reagent disc and iQC™ work flawlessly together

- iQC™ verifies the integrity of the bar code information on the disc (disc identification code, lot number, and expiration date) to verify that the expiration date not has been exceeded
- Calibration information is automatically transferred to the analyzer's memory to be used in the calculation of results
- Disc-specific information is maintained with the system QC data in the analyzer's memory (up to 5,000 results), which may be recalled and accordingly a copy of the appropriate QC report can be printed



Clinical decision making – anytime, anywhere

There is never time to lose

Clinical decisions often need to be made quickly – especially when providing critical or emergency care. In these situations, you need chemistry results immediately. And indeed, whether you are in a hospital or an ambulance, an intensive care unit or a helicopter, the Piccolo xpress™ delivers results in minutes – right on the spot.

The Piccolo xpress™ solution

Step 1: Add sample – 100 µl



Step 2: Insert rotor



Step 3: Read results



From sample to complete panel results in 3 steps and approximately 12 minutes

Obtain complete chemistry results with only a few drops of whole blood

For neonatal clinicians, getting blood chemistry results can be challenging. Their patients can only tolerate a small blood draw; and these small samples are particularly vulnerable to degradation while in transit to an outside provider. With the Piccolo xpress™, you never need to take this risk again. Rather, you can get comprehensive chemistry results with just a few drops of whole blood – right at the patient's side.

In times of sluggish demand – you need a cost-efficient backup system

Many laboratories remain open on nights and weekends to process “stat” lab requests – the few requests which need to be processed immediately. Their standard analyzers, designed for high throughput, require calibration, quality control, and other maintenance; and it is often time-consuming and expensive to use them for a few “stat” lab samples. The Piccolo xpress™ provides a quick, easy, reliable, and cost-effective alternative. With no calibration and just 30 seconds of hands-on time, the Piccolo xpress™ delivers comprehensive chemistry results in minutes.

Vital chemistry information you need – on the spot

In many situations, it is simply impossible to transport blood samples to a laboratory. And in these situations, the Piccolo xpress™ gives clinicians the information they need to make confident decisions. Whether in areas affected by natural disaster or conflict, rural areas with limited road networks, or remote islands, the Piccolo xpress™ delivers comprehensive chemistry results in minutes – right at the patient's side.

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