

ENVIRONMENTAL MONITORING

Climate Control

ScanLab II

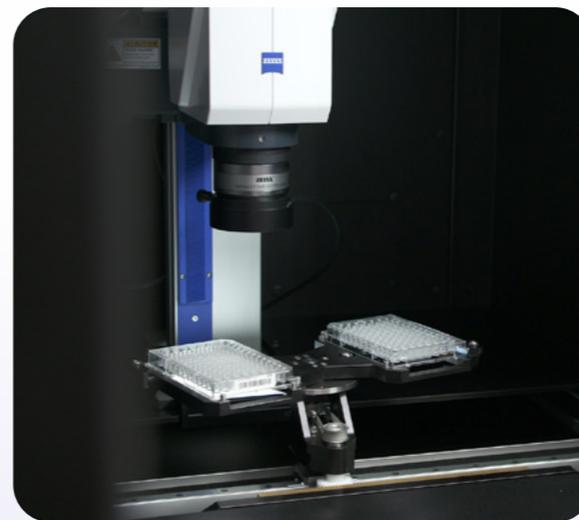


Information brochure (2022)



Shape the future of Automatic Reading

INTRODUCTION

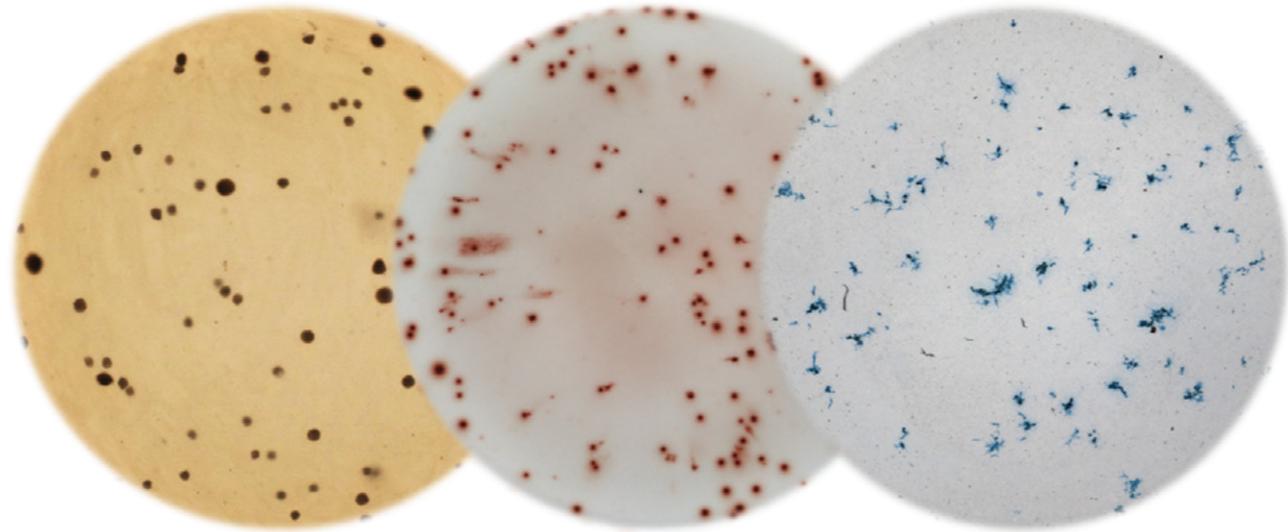


The ScanLab II+ CC is designed to help raise your productivity. The system is designed for high throughput; you're able to queue as many as 189 plates. The system is also fitted with a climate-controlled chamber for incubation.

The ScanLab II+ CC is designed with all the benefits of the **MacroScan II** and **MacroScan II RL**. It works with plates with 6, 12, 24, 48 or 96 wells. It automatically loads and photographs up to 189 plates, using **Teach & Read** application to analyze the resultant images and perform culture counts. However, the ScanLab II CC is also fitted with its own climate-controlled chamber.



Book your free demonstration at [microtechnix.com](https://www.microtechnix.com)

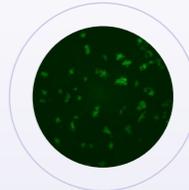
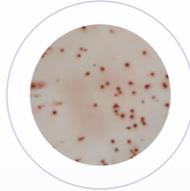
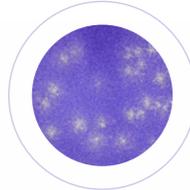
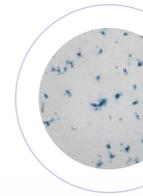


Types of lab assays

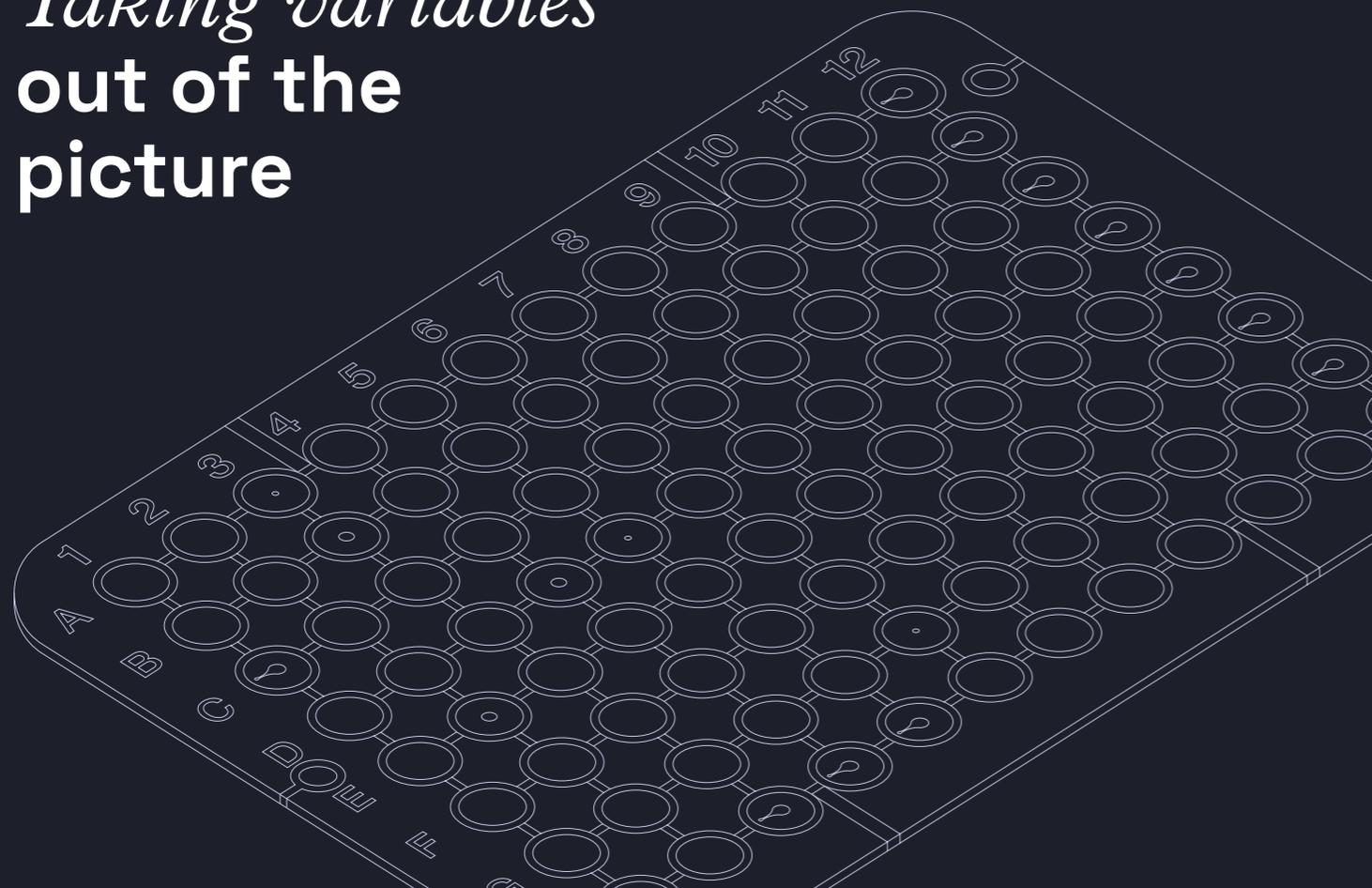
The ScanLab II+ CC is designed to perform all common cell-based assays, all functional assays and all lab assays. Run your analyses on the basis of colourimetry, luminescence or fluorescence in no time.

- ✓ PRNT and MicroPRNT assays
- ✓ Seroneutralisation assays
- ✓ Titration assays
- ✓ ELISPOT
- ✓ Opsonophagocytic assays
- ✓ Serum bactericidal assays

PRODUCT HIGHLIGHTS



Taking variables out of the picture



Climate control

The ScanLab II+ CC allows you to queue up your plates in a Thermo Fischer CytoMat automated incubator. This puts you in charge of the atmosphere. Set the temperature to anything from 10°C up to 50°C. Raise the relative humidity as high as 98%, keep CO2 levels stable, and of course, lower assay variability. The incubator even has a drying platform to ensure that your sample is free from condensation prior to image capture.



Integration

Fully integrated in the system, No additional PC or software needed.



Multi-application

Mix sample plates of different lab assays in the same run, ScanLab automatically apply acquisition settings of each sample

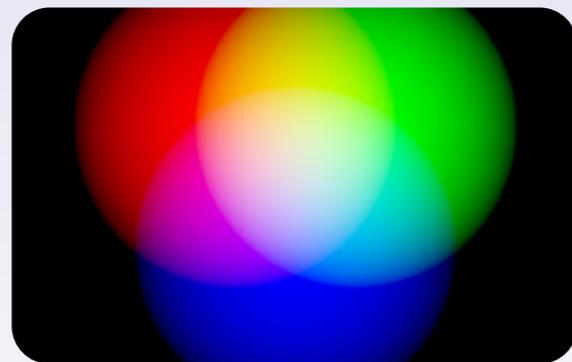


Reporting

and possibility to connect to the EM software.

The optics

The most accurate results come from the most accurate images. The ScanLab II+ CC uses a ZEISS stereomicroscopy camera that is completely digitally controlled. It takes high-definition images of your assays, perfect for raising the accuracy of your counts and ensuring every detail in every well is identifiable.



RGB calibration

The ScanLab II+ CC uses mean red, blue and green density values to ensure perfect calibration. These parameters add to the accuracy of your images. Whether they're preset or customised, they are stored in a file that you—or colleagues anywhere in the world—can call up when it's time to validate your images or run further assays.

PRODUCT HIGHLIGHTS

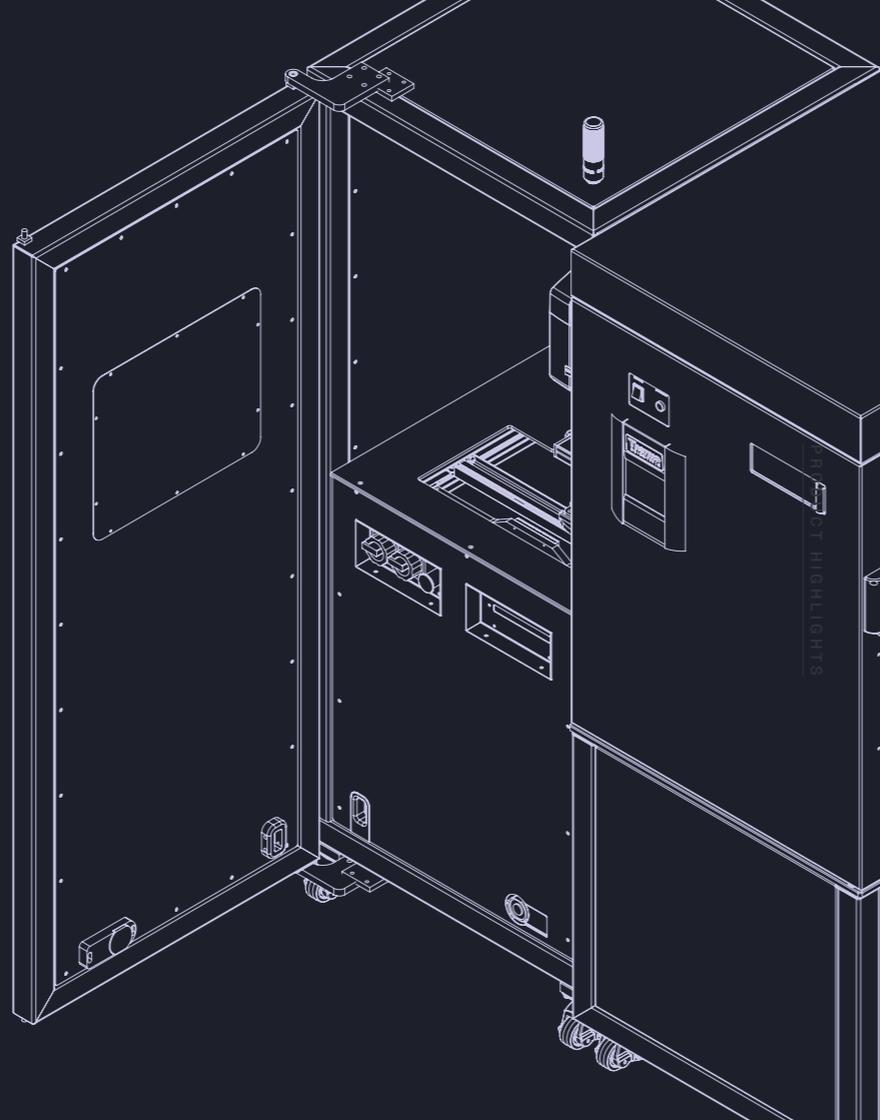
PRODUCT HIGHLIGHTS

Automated microscopy

Light. Exposure time. Image resolution and image size, compactness, bulkiness and hundreds of other variables influence the image you create. That's why the ScanLab II+ CC series records all the parameters under which an image was taken. The parameters in the digital file tell your system exactly how to recreate the same conditions, eliminating variables. As every aspect of the camera is either fixed or mechanically controlled, you benefit from pinpoint accuracy in all your assays.

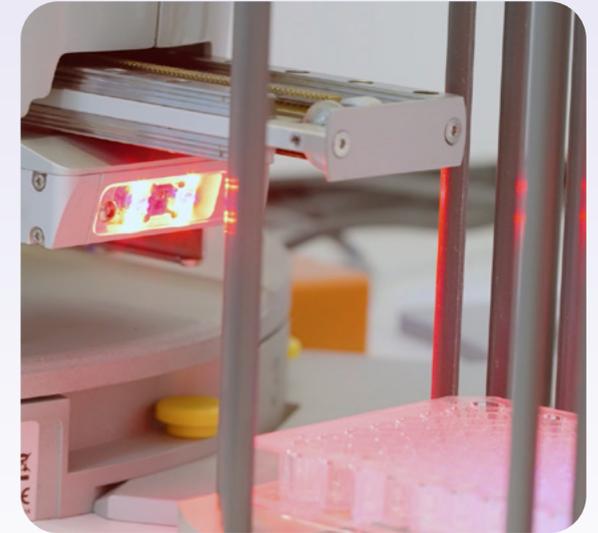


Simple and
robust
engineering



Consistency

These calibration parameters are not just valid for your system, nor are they just for the ScanLab II+ CC. They will work with any MicroTechniX hardware, anywhere in the world. We offer you consistency across multiple systems. Assay validation has never been so easy.



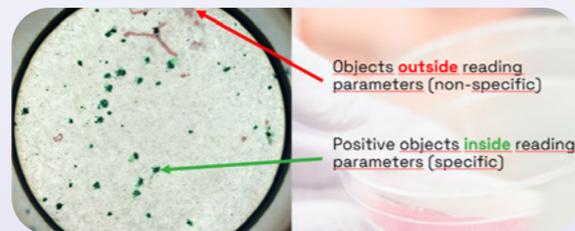
Teach & Read

The ScanLab II CC uses Teach & Read Microtechnix application to acquire high grade quality images and apply the set of parameters specific to your positive samples.

How does it work? With amazing simplicity. You just need to click on region of interest. One click qualifies them as positive. As you click on each positive agent, the software updates up to 40 different parameters, ranging from size to contrast levels and of course, the contours of an agent. It then identifies automatically other agents in the image that fit these criteria, keeping count so you don't have to.

Teach & Read for ultimate validation

Saving these parameters means you're able to retrieve the file at a later date. This allows you to run the same assay, with the exact same parameters, on other images. And not just in your lab. The saved file is easily sent to any lab, anywhere in the world. A great way to ensure consistency. And the fastest, easiest and most accurate assay validation you've ever seen.



PRODUCT HIGHLIGHTS

TECHNICAL SPECIFICATIONS

Sample capacity	1 to 189 samples.
Templates	✓ 1 image per sample ✓ Well-by-well acquisition of 6-, 12-, 24-, 48- and 96-well plate
Camera	3 or 5 Megapixel Zeiss Axiocam® camera (model 503 or 506)
Microscope	Carl Zeiss Zoom microscope AxioZoom®.V16
Measurements (W x D x H)	160 x 90 x 180 cm
Gross weight (without options)	50 kg
Ambient operational temperature	+6°C to +30°C
Max permissible relative air humidity	75% at 30°C
Type of plates accepted	6-, 12-, 24-, 48- and 96-well plate
Interface	19" inch touch screen (IP65)
Data export	.csv, .xls, .pdf, .mp4 video, .jpeg, .png, .bmp, .tiff and Zeiss ZVI
Climate Control unit	ThermoFisher Cytomat™ 10 C Series Automated Incubators
Operating system	Windows 10
Software integrations	Icarus, ACDE 2.0, Teach & Read
Warranty	1 year warranty
Voltage and frequency	100-240Vac~/50-60Hz
Compliance	21 CFR Part 11; "ALCOA+" principle for Data Integrity

Product *range*

1 MacroScan II

- ✓ Manual loading
- ✓ 1 microplate



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2 MacroScan II RL

- ✓ Automatic loading
- ✓ Up to 80 microplates

3 ScanLab II+ CC

- ✓ Climate Control (10-37°C)
- ✓ Automatic loading
- ✓ Random access up to 189 microplates



LOADING
CAPACITY

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Our *mission*

At MicroTechniX, we are committed to providing innovative, user-friendly solutions that make life easier in your lab. Through our high-end components, we ensure a consistent level of quality and reliability that raises standards right across the industry.

The logo for Microtechnix, featuring the word "Micro" in orange and "technix" in black, with a stylized orange "x" that has a curved tail.

Our *vision*

At MicroTechniX, we see a future in which the accuracy of lab results is heightened by automated image acquisition systems and intuitive applications. We believe that the greater accuracy, speed and reliability will raise standards, in the life sciences, and in numerous applications in the engineering and manufacturing industries. It will contribute to a general progression and development in scientific methods and protocols.

Let's build it *together*

We develop our products through co-creation. If your solution doesn't exist yet, we can build it together.

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