

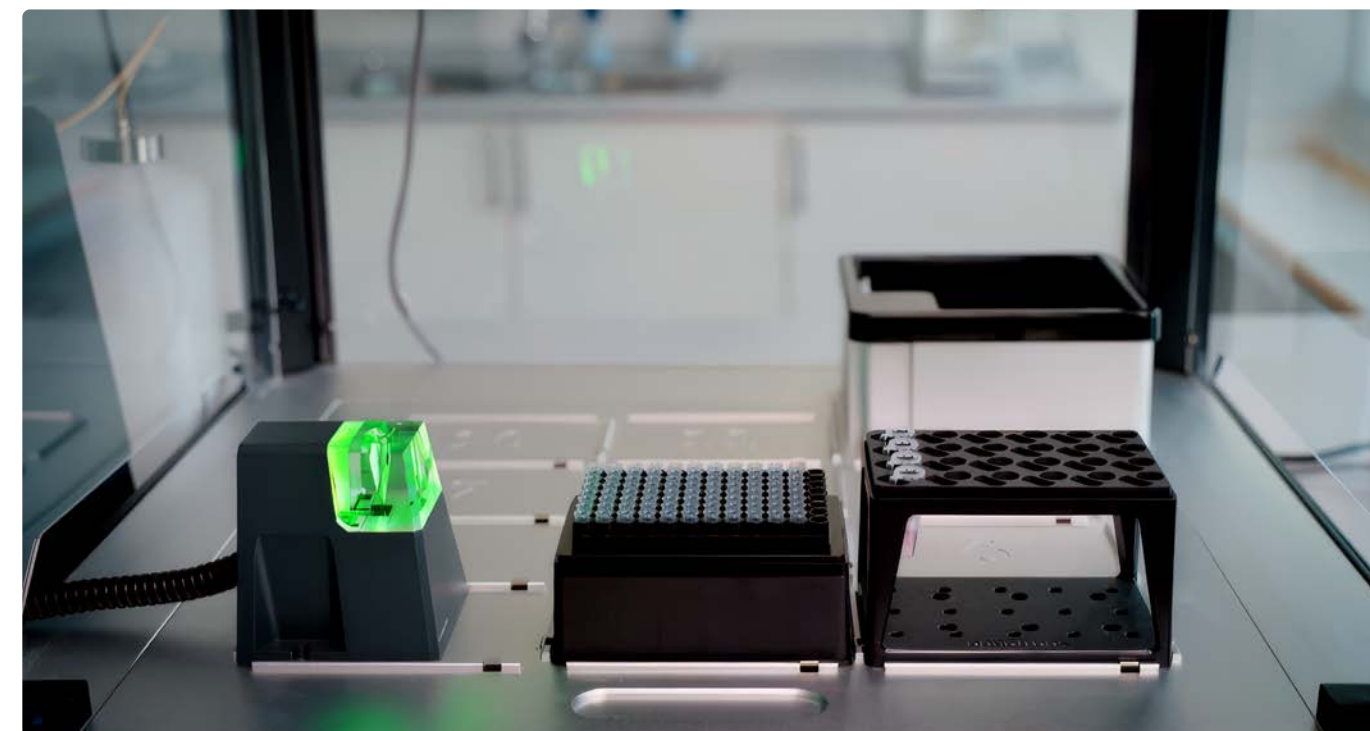
XcytoMatic® 30

FULLY AUTOMATED CELL COUNTING



XcytoMatic® 30

- ✓ API integration and automated sample/waste handling
- ✓ Cartridge-free workflow
- ✓ No dilution: counts in range 5×10^4 – 1×10^8 cells/mL
- ✓ Fast measurements: < 45 seconds
- ✓ Flexible sample volume: 50–300 μ L



Meet the Cell Counter Built for Full Automation

As pharmaceutical development and manufacturing shift toward full automation, manual workflows shouldn't hold you back.

An XcytoMatic® 30 (XM30™) is created for integration into an automated setup in a GMP-regulated environment. It works without cartridges, automatically handles samples and waste, and supports API

integration for data export and remote operation.

The XcytoMatic® 30 provides robust cell analysis across a wide range of mammalian cell types and cell densities. It combines simple operations, brightfield and fluorescence imaging, and an advanced XM-View™ software to deliver precise results.

Advantages of XcytoMatic® 30

Minimal Waste

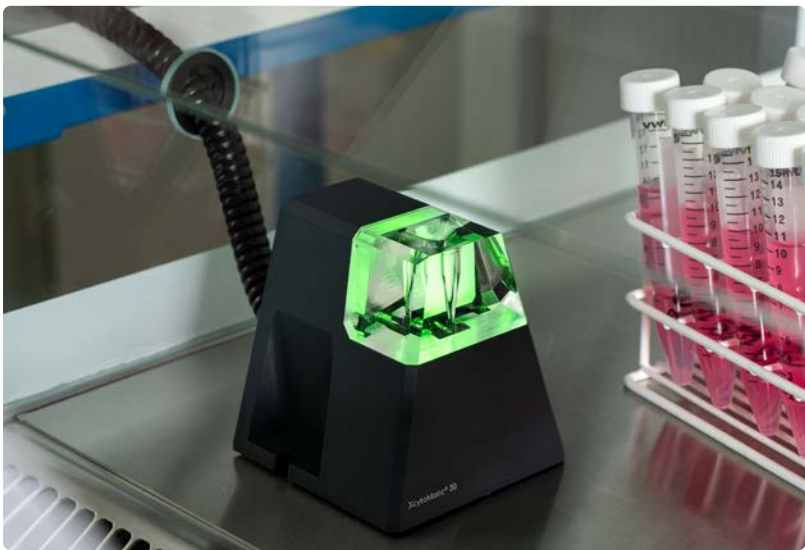
The XM30™ system requires no cartridge for cell counting and can accommodate a range of sample volumes. The sample is loaded directly into the sample cone (satellite), where it gets stained, mixed, and transferred into the counting chamber for analysis.

Low Footprint

The XcytoMatic® 30 provides the ideal setup for keeping operations enclosed in a classified environment while saving space. The transfer cable allows only the satellite to sit under the laminar flow, minimizing footprint and protecting your workflow from contamination.

No Dilution Steps

The sample requires no extra dilution steps, as the XM30™ provides precise results across a wide counting range: **from 50 000 to 100 million cells/mL**



Accurate Counting of Complex Samples

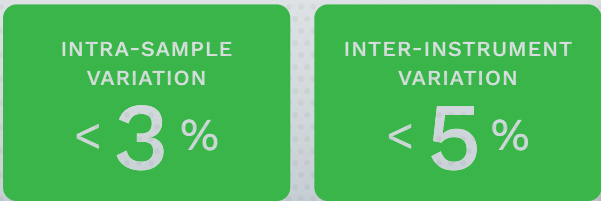
The XcytoMatic® 30 combines brightfield and AO/DAPI-based fluorescence imaging to deliver accurate count and viability results for complex samples. For example, with high debris levels, non-nucleated cell populations, and varied cell morphology.

Consistent Precision

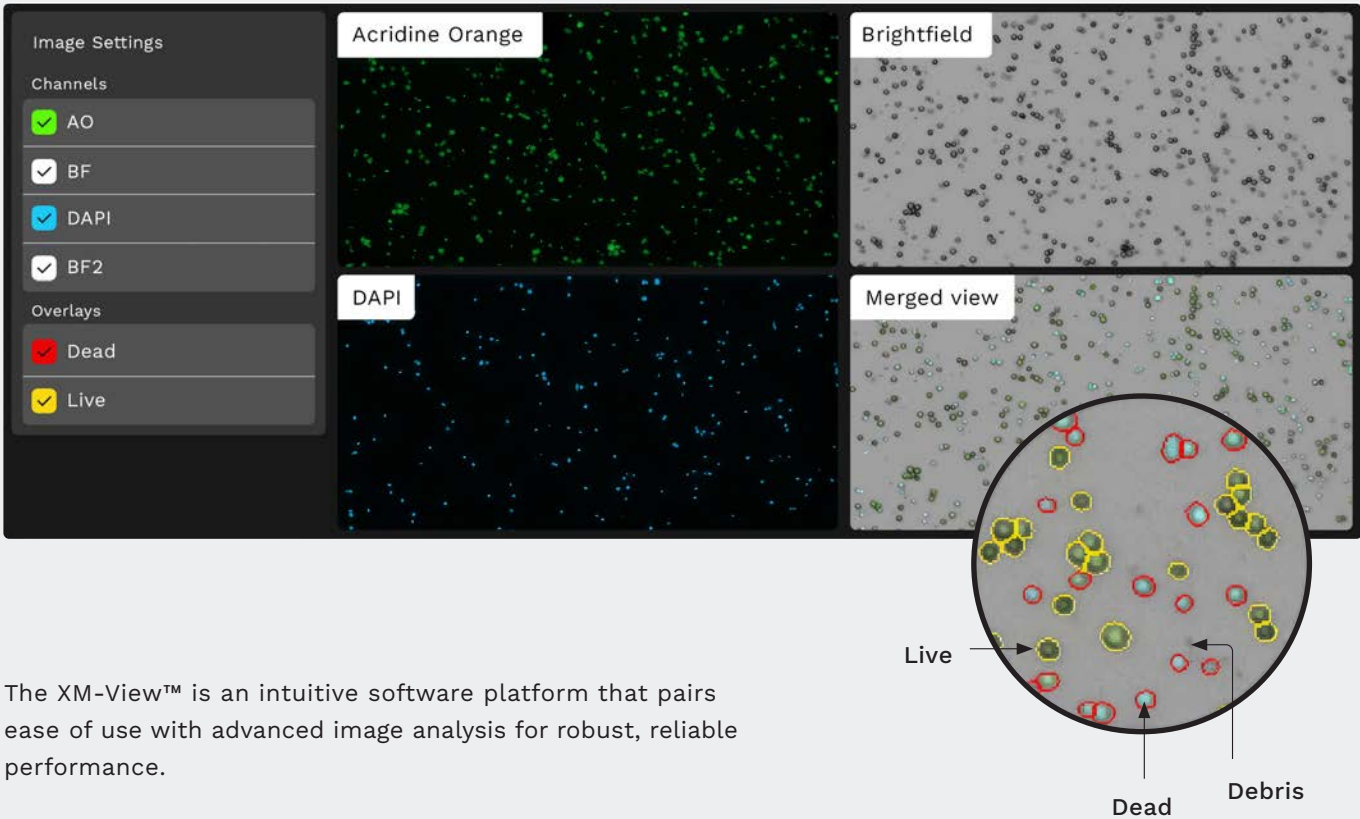
Regardless of the sample, user, and operation day, the XcytoMatic® 30 delivers consistent results. A unique fixed-focus design and fully automated sample handling minimize the potential for human error or inter-user variation.

Built for Reliable Scale-Up

All our instruments undergo a rigorous pre-calibration at the production site. This guarantees calibration-free, out-of-the-box performance with minimal discrepancy in results across instruments.



XM-View™: Streamlined Data Acquisition and Management



The XM-View™ is an intuitive software platform that pairs ease of use with advanced image analysis for robust, reliable performance.

The software delivers a range of analysis parameters and allows data export in multiple formats. The XM-View™ also provides full visibility into results, as operators can review high-quality images across channels and apply overlays to review the segmentation of live and dead cells.

PARAMETERS MEASURED

- ✓ Total Cell Count (cells/mL)
- ✓ Live Cell Count (cells/mL)
- ✓ Dead Cell Count (cells/mL)
- ✓ Viability (%)
- ✓ Single Cell (%)
- ✓ Diameter (µm)
- ✓ Debris (count/mL)
- ✓ Red Blood Cells (RBC)

Accurate Cell Identification

The XM-View™ uses an advanced image analysis for cell identification, trained on a wide range of cell types and densities to ensure consistent performance.

Standardized Protocols

The XM-View™ uses fixed and pre-validated protocols that require no parameter adjustments. A single click on RUN delivers robust results.

Quality Control

Each protocol has built-in quality control checkpoints to report any sample artifacts and inconsistencies.



Easy Transition to Full Automation

API Integration

The XcytoMatic® 30 allows flexible integration across various liquid handlers and automated bioreactor platforms.

Simple Tech Transfer

The XM-View™ aligns cell counting results across our instruments. It enables smooth transitions from single measurements in an R&D lab to a large-scale automated process, with minimal variation between stages.



21 CFR Part 11

The XcytoMatic® 30 can be integrated into regulated environments:

- ✓ Role restricted access
- ✓ E-signatures
- ✓ Action traceability
- ✓ Detailed audit trail

Service Plan

With our Service Plan, you can have peace of mind that all instruments provide the best quality results at any location.

This comprehensive package gives priority access to ChemoMetec specialists for troubleshooting, yearly on-site qualifications, and valuable training sessions for GMP operators.

Specifications

MODEL	
Instrument	XcytoMatic® 30
Product Number	900-0030
DIMENSIONS	
Instrument:	H: 270 mm x W: 190 mm x D: 300 mm (10.63 in × 7.48 in × 11.81 in)
Transfer cable:	L: 300 mm (11.81 in)
Satellite:	H: 90 mm x W: 86 mm x D: 86 mm (3.54 in × 3.39 in × 3.39 in)
WEIGHT	
12 kg (26.4 lbs)	
SOFTWARE	
XM-View™	
CONSUMABLES	
XM Cell Stain 2, XM Rinse 1, XM Liquid Waste Container 1	
STAINING DYES	
Acridine orange (AO) and DAPI	
APPLICATIONS	

Count and Viability analysis of primary cells types (e.g PBMCs, MSCs) and established cell lines (e.g. CHO, HEK, A3)

PERFORMANCE	
Counting range	5 x 10 ⁴ – 1 x 10 ⁸ cells/ml
Measurement time	< 45 seconds
Sample volume	50–300 µL
Variations	Sample-to-Sample: <3% Instrument-to-instrument: <5%
API INTEGRATION	
Available	
DATA EXPORT	
PDF, Excel, CSV, clipboard	
OPTICAL & FLUORESCENCE	
Optics	Lens with ×2.1 magnification, 2/3” CMOS
Excitation	3 LED light sources with peak wavelengths at 365 nm, 430 nm, 505 nm
Emission	A single dual-band emission filter: 410–460 nm and 540–650 nm

About us

Founded in Denmark in 1997, ChemoMetec is a global supplier of automated cell counting and analysis equipment. We develop precise instruments like the XcytoMatic® and NucleoCounter® series, ideal for applications in process development, R&D, clinical and commercial manufacturing of cell and gene therapies, upstream bioprocessing, and academic research.

Headquartered in Allerød, Denmark, with multiple US offices, we provide dedicated support through our field application scientists and engineers, ensuring seamless adaptation, installation, and service.

Beyond providing state-of-the-art cell counters, ChemoMetec partners with biopharmaceutical research and development.

We collaborate with innovation hubs and biotech companies to understand their unique needs and challenges, driving continuous innovation in cellular analysis.

Our commitment to reproducible scientific methods ensures our products deliver consistent and reliable results for any cell type, sample, or user.



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