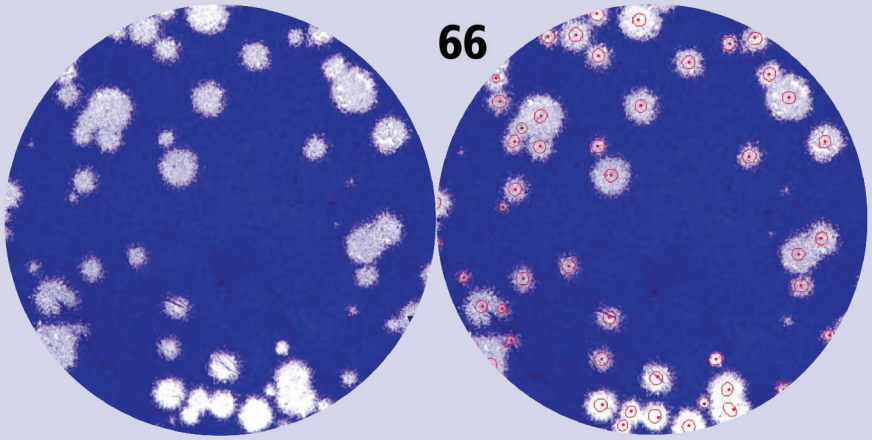
Advanced AI Imaging and Analysis Systems

Viral Plaques and Foci-forming Units

CTL proudly introduces our comprehensive line of AI-driven counting and analysis systems. For nearly a decade, CTL has been developing deep machine-learning AI systems designed to offer robust solutions to the most difficult image analysis problems for viral plaques and foci-forming units.



Challenging plaque morphologies easily detectable by AI analysis

Automated AI analysis for virtually any spot-forming unit. Ideally suited for dozens of different types of visible- and fluorescent-light assays ranging from PRNT, FRNT, infectivity assays, colony counting, and much more

Rigorously tested most of our Analyzer and automation portfolio leverages hardware and software technologies that have matured over the past decades in public health and government sectors

Rapid and accurate imaging of any plate format from Petri dishes to 384-well plates. Our scanning times range from a few seconds to few minutes

Scalable automation or stand-alone imaging devices that are uniquely designed to support different working environments – whether working in BSL3/4 labs with barcoded robotic plate-loading automation or in a smaller academic setting

Intuitive planning module incorporates experiment plans into downstream analysis reports that take you directly to the core information while archiving raw data and calculations in the background

Streamlined data output simplifies laborious data-processing tasks by automating and exporting final data reports

21 CFR part 11 conformity to applicable standards with the same regulatory/compliance capabilities of our flagship ImmunoSpot scanning/counting applications

Contact us below to learn more about all the solutions we offer

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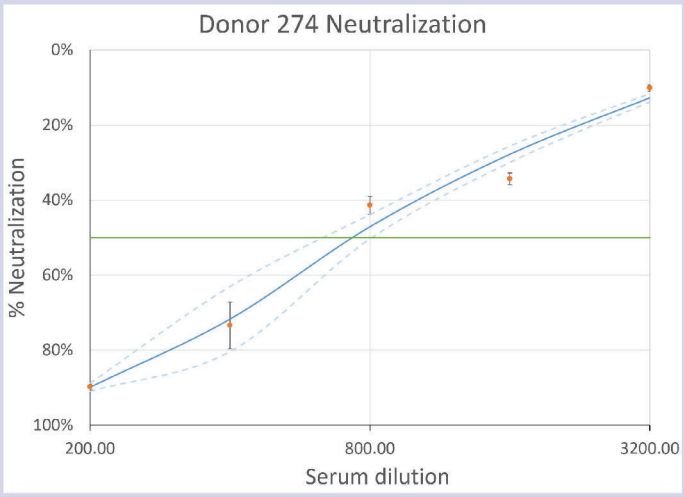
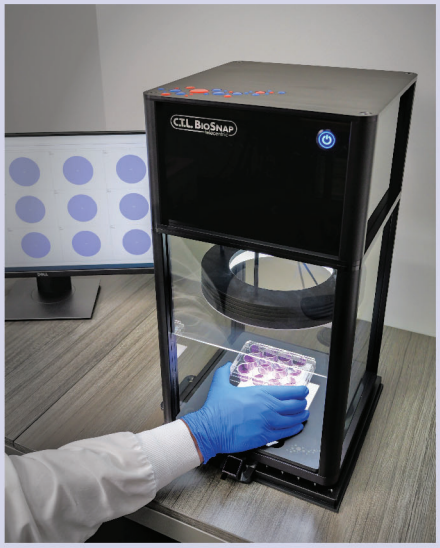


Sample Data Output - Neutralization Curve



Enhanced by Expert IntelliCount Services

The key to automated image analysis is to prove that the machine counts accurately and more consistently than a human. Our mission has been to develop methods for solving this problem. Do you want qualified technicians and PhDs to spend valuable time with the mundane task of scanning and counting plates – especially in high-containment areas? Or would you prefer that these trained professionals utilize their time to design and run experiments?

Conventional image analysis has struggled to find accurate counting solutions. It's well known that different types of viruses form vastly different plaque morphologies. Even foci-forming assays can produce "spots" with spectacular variation in color, size, background, etc., often making consistent, accurate counting a challenge.

CTL has developed an advanced AI-driven counting engine based on deep machine learning-assisted object recognition. IntelliCount models are invented by our platform's unique ability to learn and perceive image data equal to the human experts. We've scaled the AI-learning capability such that we can rapidly generate new AI-models to meet user-specific requirements, making it arguably one of the most versatile, yet accurate tools in your arsenal.

	Compatible Devices	Well Plate Formats	Visible Light	Fluorescent Channels	Scanning Speed Per Plate
NEW	BioSnap Macro	All Petri / 6 well	Yes	0	Flash Scan
NEW	BioSnap TeleCentric	90mm Petri, 6, 12, 24, 48	Yes	0	Flash Scan
	S6 Entry M2	96, 384	Yes	0	2 min (max)*
	S6 Macro M2	6, 12, 24, 48, 96, 384	Yes	0	2 min (max)*
	S6 Ultra M2	24, 48, 96, 384	Yes	5	2 min (max)*
	S6 Flex M2	24, 48, 96, 384	Yes	7	2 min (max)*
	S6 Universal M2	6, 12, 24, 48, 96, 384	Yes	7	2 min (max)*
	S6 Ultimate M2	6, 12, 24, 48, 96, 384	Yes	11	2 min (max)*

*scanning time for 96-well plates

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