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AID Reader Systems

Product and Service Overview

AID Reader Systems

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The AID EliSpot/FluoroSpot Software V7.0

Elated by the experience and feedback of AID Reader System users all over the globe we are continuously improving the successful AID EliSpot Software and are proud to present **Version 7.0** of our user-friendly software. Changes are mainly made in data handling, fulfilling the need of our customers to enhance working with their data generated by the reader, especially in long-term studies. In addition **Version 7.0** contains a module enabling fluorescent multiple-color counting (FluoroSpot) when using an AID *i*Spot or higher.

All systems are running on Windows 7 Professional (64 bit) but can still be used with a Win XP environment.

AID Software V7.0 features

- Three level user management
- Plate layout generator and rule compiler
- Adjustable “Area Of Interest”
- Multiple Count Settings per plate and well available
- Flexible TNTC (Too Numerous To Count) settings
- Various manual manipulation features (documented)
- “One-click switch” between enzymatic and fluorescent mode
- FluoroAID the patented image overlay technology in fluorescent modus
- Optimized for 1-, 2- and 3-color FluoroSpot assays
- Pixel-fit definition of multi stained spots
- One mouse click from raw data to final result with RCA-button
- Audit trail and plate history
- Tailor made export of all generated parameters
- Export to txt-files, Excel, PowerPoint and LIMS
- Accumulation of multiple stored plates in Excel
- Recounting of multiple stored plates in one go
- Adaptable toolbar for each user
- Interactive help with manuals and videos

Unique Software Modules

- AIDiagnostics module for use in diagnostic labs
- AID EliStat for tailor made export with various analyzing methods in Excel
- Preconfigured link to LIMS

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Validations on AID Reader Systems

CE - Declaration of conformity

Since 1998 AID's QM (Quality Management) complies with the European Law on Medical Devices (Medizinproduktegesetz), particularly with the in vitro diagnostic directive (IVDD) 98/79/EC. IVDD covers the placing on the market and putting into service of in vitro diagnostic medical devices. AID GmbH developed and manufactured products meet all of the relevant essential requirements contained within the IVDD. AID GmbH products carrying the CE sign can be sold without further validation anywhere in the European Union.

DIN EN ISO 13485:2012 + AC:2012

ISO 13485 is a quality system standard designed specifically for medical device companies. The ISO 13485 standard supplements ISO 9001 and has many of the same requirements. However, there are additional requirements for process control, design control, retention of records, accountability, traceability and more. AID GmbH is certified according to DIN EN ISO 13485.

DIN EN ISO 9001:2008-12

ISO 9001 is a standard for quality management systems. It is designed to help organizations ensure that they meet customers' needs. AID GmbH is certified according to DIN EN ISO 9001.

GMP/ GLP

GMP is as a quality standard included in the German Law on Pharmaceutical Products (Arzneimittelgesetz). AID GmbH products (AID Reader Systems) are designed to work in a GMP/ GLP environment according to GMP conditions. They can be adapted to individual customer wishes at any time to meet the requirements of the severe internal and external guidelines (GMP/ GLP).

21 CFR Part 11

Part 11 of the Code of Federal Regulations defines the criteria under which electronic records and electronic signatures are considered to be trustworthy, reliable and equivalent to paper records. The software of all AID devices can be adjusted to meet these requirements.

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DIN EN ISO 14971:2013-04

Medical devices - Application of risk management to medical devices.

DIN EN 62304 (VDE 0750-101):2013-10

Medical device software - Software life cycle processes

Software is often an integral part of medical device technology. Establishing the safety and effectiveness of a medical device containing software requires knowledge of that the software is intended to do and demonstration that the use of the software fulfils those intentions without causing any unacceptable risks.

EN 61010-2-101:2002

Safety requirements for electrical equipment for measurement, control and laboratory use. Particular requirements for in vitro diagnostic (IVD) medical equipment.

DIN EN 62638:2010-08 (VDE 701/702)

Safety requirements for portable electrical equipment, e.g. computer.

DIN EN 61326-2-6 (VDE 0843-20-2-6):2006-10

Electrical equipment for measurement, control and laboratory use - EMC requirements.

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Comparison of the AID EliSpot/FluoroSpot Reader Systems

	AID Reader Systems					
	Classic	***i*Spot**	***i*Spot Spectrum**	***i*Spot Robot**	***v*Spot Spectrum**	***multi*Spot**
Assay types						
EliSpot Assay	yes	yes	yes	yes	yes	yes
1-, 2- and 3- color FluoroSpot Assays	no	yes	yes	yes	yes	yes
Neutralization Assay	96-well	96-well	96-well	96-well	6- to 96-well	96-well
Virus Plaque Assay	96-well	96-well	96-well	96-well	6- to 96-well	96-well
Cell Counting	no	no	no	no	no	yes
HEp-2 screening	no	no	no	no	no	yes
HLA-screening	no	no	no	no	no	yes
Colony Counting	no	no	no	no	yes	no
Other experiments	on inquiry	on inquiry	on inquiry	on inquiry	on inquiry	on inquiry
Plate formats						
96 and 384-well plates	yes	yes	yes	yes	yes	yes
6, 12, 24, 48, 96 and 384-well plates	no	no	no	no	yes	no
Glass slides	no	no	no	no	no	yes (4x)
Terasaki plates	no	no	no	no	no	yes
Plates per run	1	1	1	30	1	1
Camera resolution, megapixel (MP)	5 MP	2 MP	5 MP	2 MP	5 & 5 MP	2 & 5 MP
Objectives	-	-	-	-	-	2.5x & 20x
Max. no. of fluorescent filters	0	3	7	3	7	3
Narrow banded filters on board	0	2	3	2	3	2
Time demand (EliSpot, 96-well plate)	≈3 min	≈3 min	≈3 min	≈3 min	≈3 min	≈3 min
Time demand (FluoroSpot, 96-well plate)	-	≈10 min	≈10 min	≈10 min	≈10 min	≈10 min

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AID Classic (ELR07)

The basic 96 and 384-well plate EliSpot Reader

This is the classic AID EliSpot Reader type. The device is fast, efficient, user-friendly and has become the most successful EliSpot Reader in the EliSpot market. The **AID Classic** interprets any type of EliSpot plate, including all brands of membrane type plates, ELISA-style plates and low volume plates. The reader simultaneously takes high resolution images, auto centers the well and counts according to the user's settings.

The count results can automatically be analyzed with the integrated rule compiler. Data acquisition is fully automated. Counting results and all other parameters can be exported to txt-files, Excel, PowerPoint, LIMS, AIDiagnostics or EliStat. The reader system is extremely compact with a footprint of only 43 cm x 43 cm.

Key features of the AID Classic

- <3 minutes for complete interpretation of an enzymatic 96-well plate (incl. image capturing, counting, analyzing and data export)
- High resolution images with a 5 megapixel, fire wire connected digital camera
- LED ring illumination
- Controlled by a high-end PC, 21.5" 16:9 screen
- 90 mA @ 240 V/ 120 mA @ 110 V
- One mouse click from raw data to final result
- CE, DIN EN ISO 9001, DIN EN ISO 13485 certificated
- Manuals, videos and interactive help files

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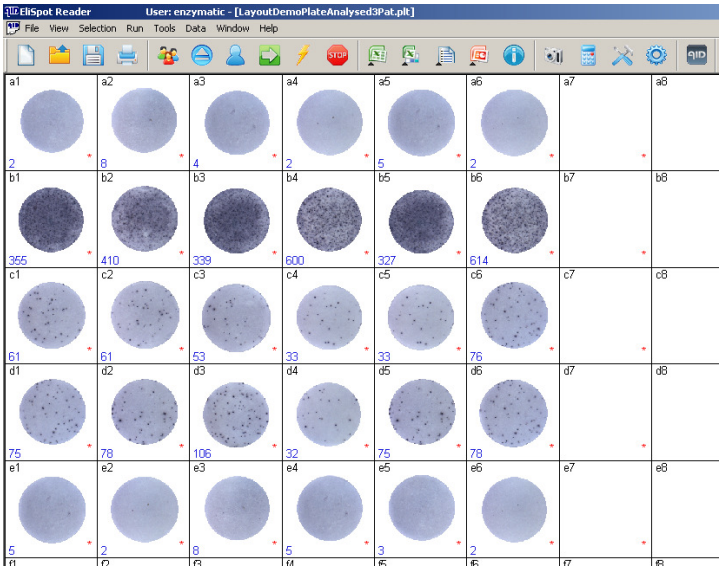

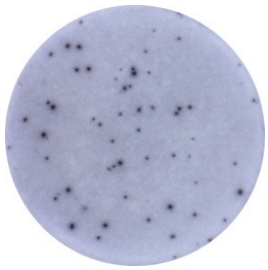

AID EliSpot Reader Software V7.0 plate view. Counted spots are shown in blue on the lower left side of each well. Upon double-click the single well view is activated.

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AID Classic (ELR07) - Technical Specifications

Hardware	
PC system	High-end PC with Intel Core i5 processor, 4 GB RAM, 500 GB hard disk 21.5" 16:9 screen
Illumination	Evenly spread, long life LED ring illumination
Camera resolution and control	5 megapixel, color, firewire-connected
Power input	90 mA @ 240 V/ 120 mA @ 110 V
Footprint	430x430x290 mm (Peripherals not included)
Software	
Operating system	Windows 7 Professional (64 bit)
AID Software	AID EliSpot V7.x
MS Office Version	MS Office 2010 Professional
Additional software solutions	AID EliStat, AIDiagnostics
Plate formats and assays	
Applicable assays	EliSpot, Viral Plaque Assays, Neutralization Assays
Plate formats	96 and 384-well plates
Certifications/ Validations	
DIN EN ISO 13485:2012 + AC:2012	Yes
DIN EN ISO 9001:2008-12	Yes
DIN EN ISO 14971:2013-04	Yes
DIN EN 62304 (VDE 0750-101):2013-10	Yes
EN 61010-2-101:2002	Yes
DIN EN 62638:2010 -08 (VDE 701/702)	Yes
DIN EN 61326-2-6 (VDE 0843-20-2-6): 2006-10	Yes
CE	Yes
FDA 21 CFR Part 11	After consultation
Miscellaneous	
Analysis of multi-cytokine secretion assay	By color
Software licenses	2 additional software licenses included
Time demand for complete analysis	≈2 min for a 96-well enzymatic plate
Warranty	2 years warranty, Service and Preventative Maintenance Contracts available
Delivery schedule	4-6 weeks after ordering
Important note	**Self installation. Online user training. Price does not include installation or on-site user training. May be purchased separately**

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AID *i*Spot (ELR07IFL)

The basic 96 and 384-well plate EliSpot/FluoroSpot Reader

The **AID *i*Spot** is one of the most successful EliSpot/FluoroSpot Reader developments in recent years. The **AID *i*Spot** for the first time allows analyzing both: Enzymatic and fluorescent (FluoroSpot) based EliSpot assays. The **AID *i*Spot** comprises the same outstanding functionality, such as layout-generator, rule-compiler, various export possibilities etc., as the AID Classic.

Beside all of the popular functions of the AID Classic, the **AID *i*Spot** simultaneously allows for 1-, 2- or even 3-color FluoroSpot analysis. A simple “one-click switch” between enzymatic and fluorescent mode, without the need of hardware changes, is enough to switch from one mode to the other.

Key features of the AID *i*Spot

- Enzymatic and fluorescent analysis
- <3 minutes for an enzymatic EliSpot plate, ≈10 minutes for a 2-color FluoroSpot plate
- Digital Firewire Camera, 2 megapixel, color, optimized for fluorescence imaging
- LED ring illumination, XBO light source, 3&1 filter wheel
- 2 narrow band hard coated fluorescent filters (FITC and Cy3) on board, third filter on request
- Optimized for 1-, 2- and 3-color fluorescent analysis
- Controlled by a high-end PC, 21.5” 16:9 screen
- 110 mA @ 240 V/ 140 mA @ 110 V
- CE, DIN EN ISO 9001, DIN EN ISO 13485 certificated
- Manuals, videos and interactive help files included

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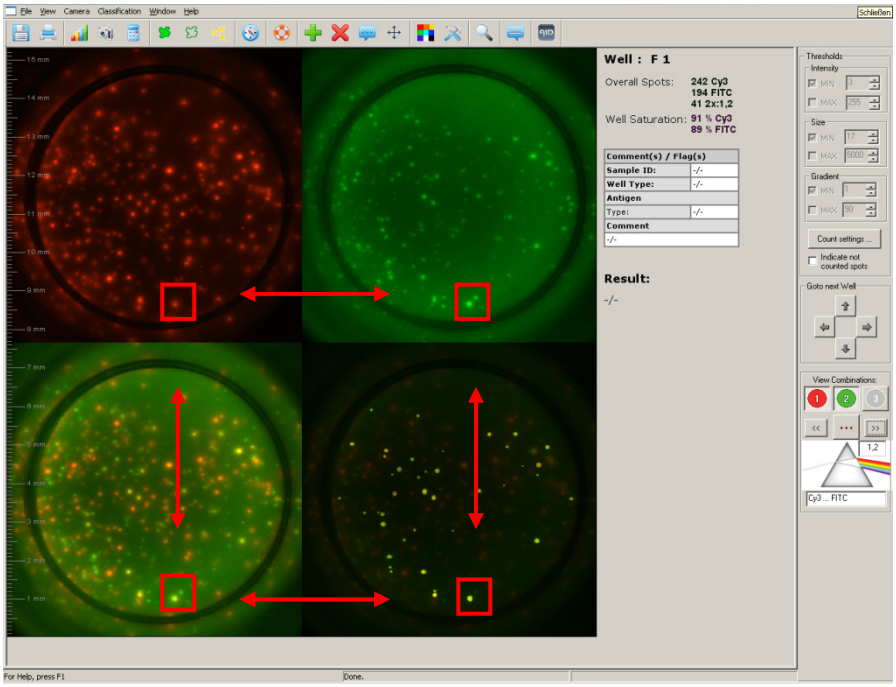

The patented FluoroAID image overlay technology overcomes the drawbacks in previous enzymatic duel color EliSpot assays. It precisely detects double-stained spots even in cells where one cytokine dominates over the other.

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AID *i*Spot (ELR07IFL) - Technical Specifications

Hardware	
PC system	High-end PC with Intel Core i5 processor, 4 GB RAM, 500 GB hard disk 21.5" 16:9 screen
Fluorescent filter set and control	2 narrow-banded filters on board, 4 position filter/ LED changer
Fluorescent imaging	"FluoroAID", AID's patented image overlay technology
Illumination	Evenly spread, long life LED ring and external Xenon light source
Camera resolution and control	2 megapixel, optimized for fluorescence imaging, firewire-connected
Power input	110 mA @ 240 V/ 140 mA @ 110 V
Footprint	430x430x260 mm (Peripherals not included)
Software	
Operating system	Windows 7 Professional (64 bit)
AID Software	AID EliSpot V7.x
MS Office Version	MS Office 2010 Professional
Additional software solutions	AID EliStat, AIDiagnostics
Plate formats and assays	
Applicable assays	EliSpot, FluoroSpot, Viral Plaque Assays, Neutralization Assays Others after consultation
Plate formats	96 and 384-well plates
Certifications/ Validations	
DIN EN ISO 13485:2012 + AC:2012	Yes
DIN EN ISO 9001:2008-12	Yes
DIN EN ISO 14971:2013-04	Yes
DIN EN 62304 (VDE 0750-101):2013-10	Yes
EN 61010-2-101:2002	Yes
DIN EN 62638:2010 -08 (VDE 701/702)	Yes
DIN EN 61326-2-6 (VDE 0843-20-2-6): 2006-10	Yes
CE	Yes
FDA 21 CFR Part 11	After consultation
Miscellaneous	
Software licenses	2 additional software licenses included
Time demand for complete analysis	≈3 min for a 96-well enzymatic plate, ≈10 min for a FluoroSpot plate
Maximum number of fluorescent filters	3
Warranty	2 years warranty, Service and Preventative Maintenance Contracts available
Delivery schedule	4-6 weeks after ordering
Installation & on-site training	Included in quoted price

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AID *i*Spot Spectrum (ELR078IFL)

The ultimate high resolution 96 and 384-well plate EliSpot/FluoroSpot Reader

The **AID *i*Spot Spectrum** is the newest generation of the successful AID *i*Spot, the first commercially available combined EliSpot/FluoroSpot Reader. The **AID *i*Spot Spectrum** is equipped with a 7&1 filter wheel, which allows for a customized selection of up to 7 individual narrow band hard coated fluorescent filters, whilst still allowing for our “one-click switch” to analyze enzymatic EliSpot assays via LED illumination.

The insertion of a high resolution 5 megapixel digital camera provides well images of unprecedented quality. Like in AID’s *i*Spot Reader System the patented FluoroAID image overlay technology permits exact detection of cells secreting multiple cytokines.

Key features of the AID *i*Spot Spectrum

- Enzymatic and fluorescent analysis
- Digital Firewire Camera, 5 megapixel, color, optimized for fluorescence imaging
- LED ring illumination, XBO light source, 7&1 filter wheel
- 3 narrow band hard coated fluorescent filters (FITC and Cy3) and a third one of user’s choice on board. Up to 7 separate fluorescent filters possible
- Optimized for 1-, 2- and 3-color fluorescent analysis
- Automated plate input/output module
- Controlled by a high-end PC, 21.5” 16:9 screen
- 160 mA @ 240 V/ 230 mA @ 110 V
- CE, DIN EN ISO 9001, DIN EN ISO 13485 certificated
- Manuals, videos and interactive help files included

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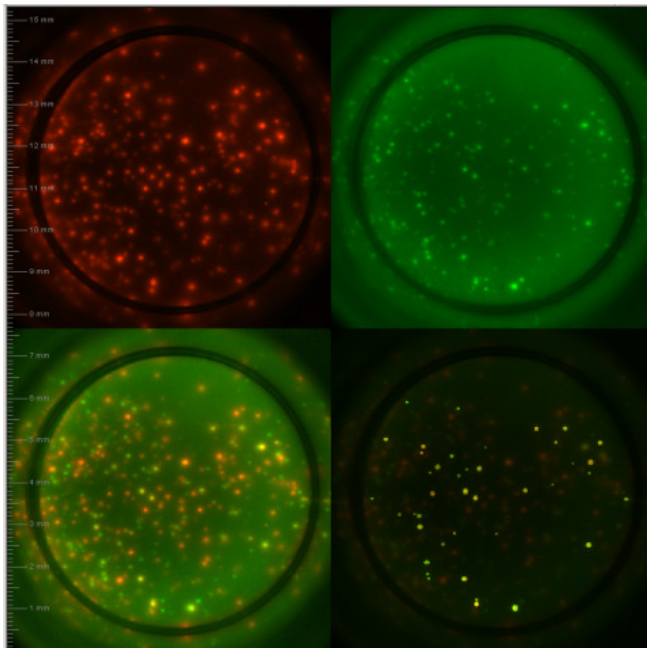
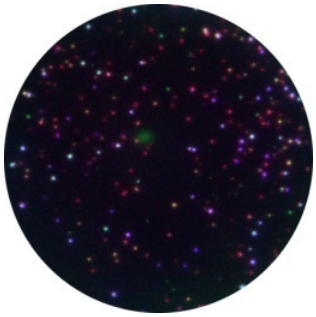
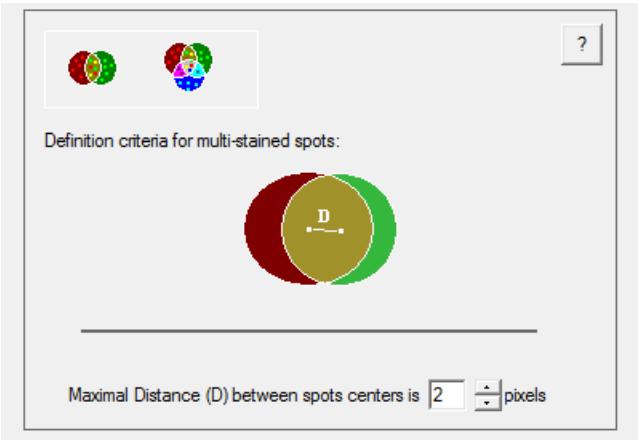


2-color FluoroSpot assay:
Red signal (IL-2), green signal (IFN-y), the corresponding overlaid image and the resulting picture showing only double-stained spots.



3-color FluoroSpot assay



The distance between spots where a double/triple-stained spot is detected can be defined by each user.

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AID *i*Spot Spectrum (ELR078IFL) - Technical Specifications

Hardware	
PC system	High-end PC with Intel Core i7 processor, 8 GB RAM, ≥ 1 TB hard disk 21.5" 16:9 screen
Fluorescent filter set and control	3 narrow-banded filters on board, 8 position filter/ LED changer
Fluorescent imaging	"FluoroAID", AID's patented image overlay technology
Illumination	Evenly spread, long life LED ring and external Xenon light source
Camera resolution and control	5 megapixel, optimized for fluorescence imaging, firewire-connected
Power input	160 mA @ 240 V/ 230 mA @ 110 V
Footprint	430x450x260 mm (Peripherals not included)
Software	
Operating system	Windows 7 Professional (64 bit)
AID Software	AID EliSpot V7.x
MS Office Version	MS Office 2010 Professional
Additional software solutions	AID EliStat, AIDiagnostics
Plate formats and assays	
Applicable assays	EliSpot, FluoroSpot, Viral Plaque Assays, Neutralization Assays Others after consultation
Plate formats	96 and 384-well plates
Certifications/ Validations	
DIN EN ISO 13485:2012 + AC:2012	Yes
DIN EN ISO 9001:2008-12	Yes
DIN EN ISO 14971:2013-04	Yes
DIN EN 62304 (VDE 0750-101):2013-10	Yes
EN 61010-2-101:2002	Yes
DIN EN 62638:2010 -08 (VDE 701/702)	Yes
DIN EN 61326-2-6 (VDE 0843-20-2-6): 2006-10	Yes
CE	Yes
FDA 21 CFR Part 11	After consultation
Miscellaneous	
Software licenses	2 additional software licenses included
Time demand for complete analysis	≈3 min for a 96-well enzymatic plate, ≈10 min for a FluoroSpot plate
Maximum number of fluorescent filters	7
Warranty	2 years warranty, Service and Preventative Maintenance Contracts available
Delivery schedule	4-6 weeks after ordering
Installation & on-site training	Included in quoted price

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AID *i*Spot Robot (ELROB07IFL)

High throughput 96 and 384-well plate EliSpot/FluoroSpot analysis

Designed for high throughput and traceable results, this is the ultimate tool for large groups of samples. The **AID *i*Spot Robot** can take up to 30 plates in one automated, walk-away process and will analyze them in less than 90 minutes. The system is designed to interpret enzymatic EliSpot assays as well as 1-, 2- and 3-color fluorescence EliSpot assays. The **AID *i*Spot Robot** simultaneously takes high resolution images, auto centers the well and counts according to user's settings.

Data acquisition is fully automated. In addition the count results can automatically be analyzed with the integrated rule compiler.

Key features of the AID *i*Spot Robot

- Hands-off, walk-away system
- Automatic barcode recognition
- Integrated system, not a reader/stacker solution
- Up to 30 96-well plates in one run
- Digital Firewire Camera, 2 megapixel, color, optimized for fluorescence imaging
- LED ring illumination, XBO light source, 3&1 filter wheel
- 2 narrow band hard coated fluorescent filters (FITC and Cy3) on board, third filter on request
- Optimized for 1-, 2- and 3-color fluorescent analysis
- Controlled by a high-end PC, 21.5" 16:9 screen
- 120 mA @ 240 V/ 160 mA @ 110 V
- CE, DIN EN ISO 9001, DIN EN ISO 13485 certificated
- Manuals, videos and interactive help files included

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AID *i*Spot Robot (ELROB07IFL) - Technical Specifications

Hardware	
PC system	High-end PC with Intel Core i7 processor, 8 GB RAM, ≥ 1TB hard disk 2 TB external hard disk, UPS 21.5" 16:9 screen
Fluorescent filter set and control	2 narrow-banded filters on board, 4 position filter/ LED changer
Fluorescent imaging	"FluoroAID", AID's patented image overlay technology
Illumination	Evenly spread, long life LED ring and external Xenon light source
Camera resolution and control	2 megapixel, optimized for fluorescent imaging, firewire-connected
Power input	120 mA @ 240 V/ 160 mA @ 110 V
Footprint	760x540x460 mm (Peripherals not included)
Software	
Operating system	Windows 7 Professional (64 bit)
AID Software	AID EliSpot V7.x
MS Office Version	MS Office 2010 Professional
Additional software solutions	AID EliStat, AIDiagnostics
Plate formats and assays	
Applicable assays	EliSpot, FluoroSpot, Viral Plaque Assays, Neutralization Assays Others after consultation
Plate formats	96 and 384-well plates, up to 30 plates per run
Certifications/ Validations	
DIN EN ISO 13485:2012 + AC:2012	Yes
DIN EN ISO 9001:2008-12	Yes
DIN EN ISO 14971:2013-04	Yes
DIN EN 62304 (VDE 0750-101):2013-10	Yes
EN 61010-2-101:2002	Yes
DIN EN 62638:2010 -08 (VDE 701/702)	Yes
DIN EN 61326-2-6 (VDE 0843-20-2-6): 2006-10	Yes
CE	Yes
FDA 21 CFR Part 11	After consultation
Miscellaneous	
Software licenses	2 additional software licenses included
Time demand for complete analysis	≈3 min for a 96-well enzymatic plate, ≈10 min for a FluoroSpot plate
Maximum number of fluorescent filters	3
Warranty	2 years warranty, Service and Preventative Maintenance Contracts available
Delivery schedule	4-6 weeks after ordering
Installation & on-site training	Included in quoted price

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AID *v*Spot (VSR078IFL)

High resolution EliSpot/FluoroSpot Reader for various plate formats

The **AID *v*Spot Spectrum** is the new high-end EliSpot/FluoroSpot device from AID. It combines AID *i*Spot 96-well FluoroSpot analyzing with enzymatic multiple plate evaluation. On the enzymatic side the **AID *v*Spot Spectrum** can handle a variety of different assay types including Viral Plaque Assays and Neutralization Assays. Colony Counting is possible when performed in a 6-well plate format. Other formats on inquiry. Due to a genuine optical zoom, versatile stage settings and unique software features this reader is not restricted to the analysis of 96-well plate formats. It will also read 6, 12, 24, 48 and 384-well plates. The insertion of high resolution digital cameras provides well images of unprecedented quality.

The **AID *v*Spot Spectrum** is equipped with an 8 position filter wheel, which allows for a customized selection of up to 7 individual narrow band fluorescent filters, whilst still allowing for our “one-click switch” to perform enzymatic analysis via LED illumination on different plate formats.

Key features of the AID *v*Spot Spectrum

- EliSpot, FluoroSpot, Virus Plaque Assays, Colony Counting
- <3 minutes for an enzymatic EliSpot plate, ≈10 minutes for a 2-color FluoroSpot plate
- Handles 6, 12, 24, 48, 96 and 384-well plates
- 2 Digital Firewire Cameras,5 megapixel each, color, optimized for fluorescence imaging
- LED ring illumination, XBO light source, 7&1 filter wheel
- 3 narrow band hard coated fluorescent filters (FITC and Cy3) and a third one of user’s choice on board. Up to 7 separate filters
- Optimized for 1-, 2- and 3-color fluorescent analysis
- Controlled by a high-end PC, 21.5” 16:9 screen
- 170 mA @ 240 V/ 260 mA @ 110 V
- CE, DIN EN ISO 9001, DIN EN ISO 13485 certificated
- Manuals, videos and interactive help files included

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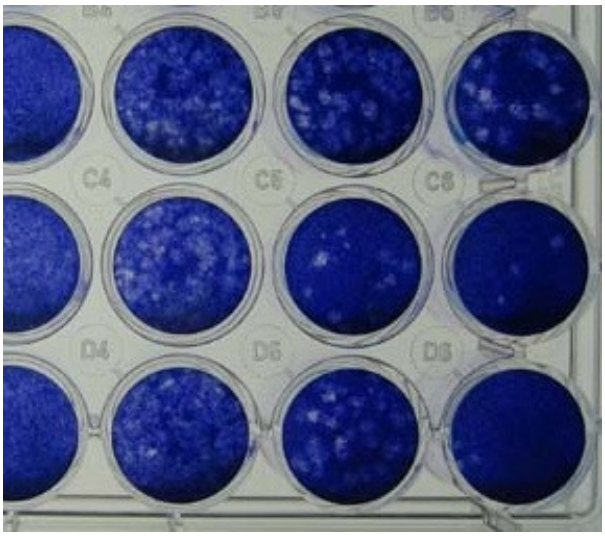

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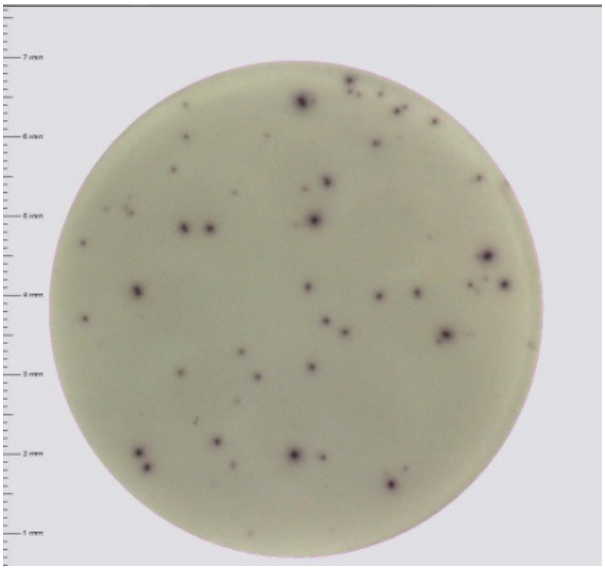

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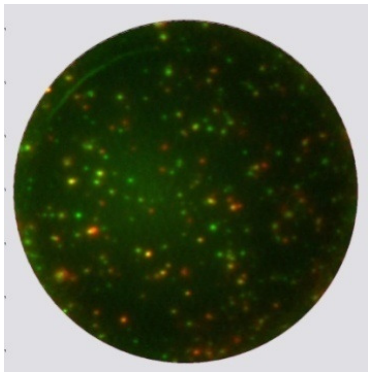

C

Analysis of numerous types of different assays on various plate formats can be performed with the **AID *v*Spot Spectrum**.

A: Viral Plaque Assay

B: EliSpot

C: FluoroSpot

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AID *v*Spot Spectrum (VSR078IFL) - Technical Specifications

Hardware	
PC system	High-end PC with Intel Core i7 processor, 8 GB RAM, ≥ 1 TB hard disk 21.5" 16:9 screen
Fluorescent filter set and control	3 narrow-banded filters on board, 8 position filter/ LED changer
Fluorescent imaging	"FluoroAID", AID's patented image overlay technology
Illumination	Evenly spread, long life LED ring and external Xenon light source
Camera resolution and control	5 megapixel, optimized for fluorescence imaging, firewire-connected 5 megapixel (6, 12, 24, 48, 96 and 384-well applications), firewire-connected
Power input	170 mA @ 240 V/ 260 mA @ 110 V
Footprint	430x430x550 mm (Peripherals not included)
Software	
Operating system	Windows 7 Professional (64 bit)
AID Software	AID EliSpot V7.x
MS Office Version	MS Office 2010 Professional
Additional software solutions	AID EliStat, AIDiagnostics
Plate formats and assays	
Applicable assays	EliSpot, FluoroSpot, Viral Plaque Assays, Neutralization Assays Others after consultation
Plate formats	6, 12, 24, 48, 96 and 384-well plates
Certifications/ Validations	
DIN EN ISO 13485:2012 + AC:2012	Yes
DIN EN ISO 9001:2008-12	Yes
DIN EN ISO 14971:2013-04	Yes
DIN EN 62304 (VDE 0750-101):2013-10	Yes
EN 61010-2-101:2002	Yes
DIN EN 62638:2010 -08 (VDE 701/702)	Yes
DIN EN 61326-2-6 (VDE 0843-20-2-6): 2006-10	Yes
CE	Yes
FDA 21 CFR Part 11	After consultation
Miscellaneous	
Software licenses	2 additional software licenses included
Time demand for complete analysis	≈3 min for a 96-well enzymatic plate, ≈10 min for a FluoroSpot plate
Maximum number of fluorescent filters	7
Warranty	2 years warranty, Service and Preventative Maintenance Contracts available
Delivery schedule	4-6 weeks after ordering
Installation & on-site training	Included in quoted price

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AID *multi*Spot (MSR07)

The multifunctional imaging device from AID

The ***AID multiSpot*** fulfills probably all needs in a modern immunology lab. Equipped with a combined EliSpot/FluoroSpot module for counting and interpreting enzymatic as well as fluorescent EliSpot assays this device also comes with an automated microscope. This unit is provided with a 2.5x and 20x objective where both are controlled by the software, allowing for a simple switch between different magnifications.

The stage handles 96 and 384-well plates, up to 4 conventional slides or classical Terasaki plates. The software is adapted to FluoroSpot/EliSpot assays, HEp-2 screening, Cell Counting, HLA-screening and many more applications.

Key features of the AID *multi*Spot

- EliSpot, FluoroSpot, Cell Viability Tests, HLA-screening, HEp-2 screening, other applications on request
- Digital Firewire Camera, 5 and 2 megapixel, color, optimized for fluorescence imaging
- LED ring illumination, two XBO light sources, 3&1 filter wheel, 2.5x and 20x objectives on a software controlled objective changer (other objectives on request)
- 3 narrow band hard coated fluorescent filters (FITC and Cy3) on board, a third one of users choice
- Optimized for 1-, 2- and 3-color fluorescent analysis
- Controlled by a high-end PC, 21.5” 16:9 screen
- 140 mA @ 240 V/ 170 mA @ 110 V
- CE, DIN EN ISO 9001, DIN EN ISO 13485 certificated
- Manuals, videos and interactive help files included

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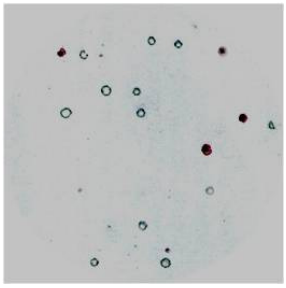
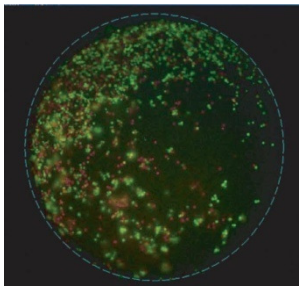
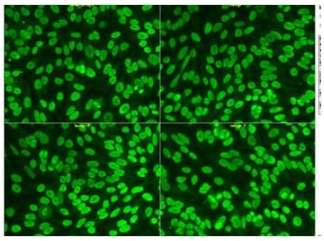
What the AID *multi*Spot can do for you



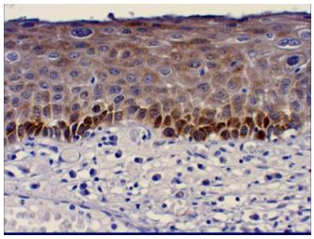
Cell Viability Test



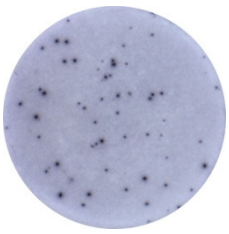
Fluorescent HLA-screening



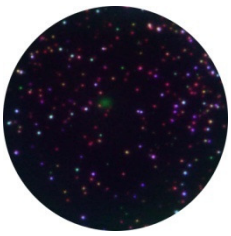
HEp-2/2000 screening



Cytological assays such as PAP smear analysis



EliSpot



3-color FluoroSpot

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AID *multi*Spot (MSR07) - Technical Specifications

Hardware	
PC system	High-end PC with Intel Core i7 processor, 8 GB RAM, ≥ 1 TB hard disk 21.5" 16:9 screen
Fluorescent filter set and control	2 narrow-banded filters on board, 4 position filter/LED changer (FluoroSpot application); Quadset DAPI/FITC/Cy3/Cy5 (Microscopic application)
Fluorescent imaging	"FluoroAID", AID's patented image overlay technology
Illumination	Evenly spread, long life LED ring and 2 external Xenon light sources
Camera resolution and control	2 megapixel, optimized for fluorescence imaging, firewire-connected (EliSpot/FluoroSpot application) 5 megapixel (Microscopic application), 2.5x and 20x objective (others on request), software controlled objective changer
Power input	140 mA @ 240 V/ 170 mA @ 110 V
Footprint	430x430x360 mm (Peripherals not included)
Software	
Operating system	Windows 7 Professional (64 bit)
AID Software	AID EliSpot V7.x, AID *cyto*Spot V2.x
MS Office Version	MS Office 2010 Professional
Additional software solutions	AID EliStat, AIDiagnostics
Plate formats and assays	
Applicable assays	EliSpot, FluoroSpot, Viral Plaque Assays, Neutralization Assays, Cell Counting Cell Viability Tests, Apoptosis Assays, HLA-screening, PAP smear. Others after consultation
Plate formats	96 and 384-well plates, Terasaki plates, glass slides
Certifications/ Validations	
DIN EN ISO 13485:2012 + AC:2012	Yes
DIN EN ISO 9001:2008-12	Yes
DIN EN ISO 14971:2013-04	Yes
DIN EN 62304 (VDE 0750-101):2013-10	Yes
EN 61010-2-101:2002	Yes
DIN EN 62638:2010 -08 (VDE 701/702)	Yes
DIN EN 61326-2-6 (VDE 0843-20-2-6): 2006-10	Yes
CE	Yes
FDA 21 CFR Part 11	After consultation
Miscellaneous	
Software licenses	2 additional software licenses included
Time demand for complete analysis	≈3 min for a 96-well enzymatic plate, ≈10 min for a FluoroSpot plate
Maximum number of fluorescent filters	3
Warranty	2 years warranty, Service and Preventative Maintenance Contracts available
Delivery schedule	4-6 weeks after ordering
Installation & on-site training	Included in quoted price