

Leica HCS A

High Content Screening Automation

Technical Documentation





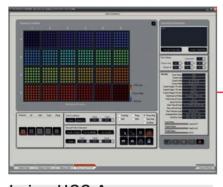
Leica HCS A **High Content Screening Automation**

LAS AF MATRIX M3 Software Platform

Amplify the power of your imaging system by HCS A and convert your confocal into a High Content Screening System. Maximum flexibility is provided for universal applications and easy automation enables efficient screening. Computer Aided Microscopy allows external system control and turns your Leica imaging system into an intelligent microscope.



Leica TCS SP5



Leica HCS A



Leica TCS SPE



Leica TCS LSI





Leica HCS A

Product Overview				
Imaging automation	LAS AF MATRIX Mosaic Advanced			156602501
Remote system control	LAS AF MATRIX Mosaic+Multiwell Advanced			156602502
nomoto oyotom control	LAS AF MATRIX Mosaic			156602504
	LAS AF MATRIX Multiwell Full Version			156602505
	LAS AF MATRIX Full Version w/o CAM			156602511
	LAS AF MATRIX Developer Entry			156602512
Accessory Tools	LAS AF MATRIX Developer Full w. CAM			156602514
Accessory roots	LAS AF MATRIX Single Object Tracking			156602507
Upgrades	LAS AF MATRIX Pump ²			156602508
opgrades	LAS AF MATRIX Z-Drift Compensator			156602509
	LAS AF MATRIX Advanced Trigger ²			156602510
	LAS AF MATRIX Advanced migger- LAS AF MATRIX Upgrade Mosaic Adv. to Mosaic Full Version			156602515
	LAS AF MATRIX Opgrade Mosaic Adv. to Mosaic Full Version			156602519
Technical Data	LAS AF MAINIX Opgrade Developer Entry to Full Version			130002319
Technical Data				
Platforms	System support ¹			TCS SP5, TCS SPE, TCS LSI
	LAS AF version			2.2.1 or higher
Image acquisition	Imaging technologies			True confocal point scanner
Export formats	Image types			TIF, OME.TIF, LIF
	Image data			OS platform indpendent
Network	Protocol			TCP/IP
	Administration			Local system admin
Remote system control	Control via network			Yes, with CAM
	Control interface			Computer Aided Microscopy, CAM
Compatible software (examples)	Not included in the packages			
	Programming languages			C++, C#, VB
				LabVIEW™, MATLAB™
	Image programming Image analysis software		Adobe Photoshop®	
			ImageJ ² with LOCI plugins	
				Definiens® Challenger®
				MetaMorph®, Leica MM AF®
Limitations	LAS AF MATRIX M3, version 2.2.1 Hardware excluded:			TCS SP5 X, MP, STED, DMI 6000 CFS
	Software excluded:			TCS SMD FCS, FLIM, FLCS
				FRAP, FRET, Electrophysiology
System Requirements				
Imaging systems	Platform			TCS SP5, TCS SPE,TCS LSI
Computing	Operating System			Windows® XP, SP2
Computing	Recommended			William William
	Processor speed	Mhz		3
	Memory	GB		4
	Hard disc	GB		500
	Network	UD.		Yes
	Platform	Stand	Part No.	XY-Travel Range ³
Motorized Stages	TCS SP5	DM	15 6504 150	100 x 80 mm
	100 01 0	DMI	15 6504 141	127 x 83 mm
	TCS SPE	DM	15 6605 200	72 x 38 mm
	100 31 L	DMI	15 6605 201	127 x 83 mm
	TCS LSI	LSI-Base	15 6905 202	127 x 83 mm
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Definiens® is a registered trademark of Definiens AG. Meta-Morph® is a registered trademark of MDS Analytical Technologies.

Open Microscopy Environment (OME) is a multi-site collaborative effort among academic laboratories and a number of commercial entities that produces open tools to support data management for biological light microscopy. Designed to interact with existing commercial software, all OME formats and software are free, and all OME source code is available under GNU public copyleft licenses. OME is developed as a joint project between research-active laboratories at the Dundee, NIA Baltimore and Harvard Medical School and LOCI. C++ is a programming language standardized by ISO. C# is a programming language developed by Microsoft, Inc. LabVIEWTM is a registered trademark of NI National Instruments Inc.

 $MATLAB^{\intercal m} \text{ is a registered trademark of The MathWorks}^{\intercal m}, Inc. \text{ Adope Photoshop}^{\circledR} \text{ is a registered trademak of Adobe Systems}^{\circledR} \text{ Incorporated}.$ ImageJ is a public domain Java image processing program inspired by National Institutes of Health, NIH. Windows® XP is a registered trademark of the Microsoft® Corporation.







¹ Supports technology within the range of the product specification.

² Supported by TCS SP5 only with additional external hardware.

³ Please note that depending on different well plate formats and platforms the outer wells might not be scanned due to mechancial restrictions. Test is recommended.



"With the user, for the user" Leica Microsystems

Leica Microsystems operates globally in four divisions, where we rank with the market leaders.

Life Science Division

The Leica Microsystems Life Science Division supports the imaging needs of the scientific community with advanced innovation and technical expertise for the visualization, measurement, and analysis of microstructures. Our strong focus on understanding scientific applications puts Leica Microsystems' customers at the leading edge of science.

Industry Division

The Leica Microsystems Industry Division's focus is to support customers' pursuit of the highest quality end result. Leica Microsystems provide the best and most innovative imaging systems to see, measure, and analyze the microstructures in routine and research industrial applications, materials science, quality control, forensic science investigation, and educational applications.

Biosystems Division

The Leica Microsystems Biosystems Division brings histopathology labs and researchers the highest-quality, most comprehensive product range. From patient to pathologist, the range includes the ideal product for each histology step and high-productivity workflow solutions for the entire lab. With complete histology systems featuring innovative automation and Novocastra™ reagents, Leica Microsystems creates better patient care through rapid turnaround, diagnostic confidence, and close customer collaboration.

Medical Division

The Leica Microsystems Medical Division's focus is to partner with and support surgeons and their care of patients with the highest-quality, most innovative surgical microscope technology today and into the future.

The statement by Ernst Leitz in 1907, "with the user, for the user," describes the fruitful collaboration with end users and driving force of innovation at Leica Microsystems. We have developed five brand values to live up to this tradition: Pioneering, High-end Quality, Team Spirit, Dedication to Science, and Continuous Improvement. For us, living up to these values means: Living up to Life.

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