Instructions to install the Micro-Manager for ProgRes® microscope cameras

- 1. Java and Micromanager 1.3.46 or higher must be previously installed.
- 2. Download the latest version of the Jenoptik Micro-Manager driver for ProgRes® microscope cameras at our web site:

http://www.progres-camera.com/microscope-camera/downloads_software.html

3. Start the installation of Jenoptik Micro-Manager driver for ProgRes® microscope cameras and follow the instructions with "Next".

Jenoptik ProgRes Micro-M	anager Driver Setup
JENOPTIK	Welcome to the Jenoptik ProgRes Micro-Manager Driver Setup Wizard This wizard will guide you through the installation of Jenoptik ProgRes Micro-Manager Driver. It is recommended that you close all other applications before starting Setup. This will make it possible to update relevant system files without having to reboot your computer. Click Next to continue.
	Next > Cancel

4. Please confirm the license agreement.

	License Armement	
ΕΝΟΡΤΙΚ	Please review the license terms before in Micro-Manager Driver.	ıstalling Jenoptik ProgRe
Press Page Down to	o see the rest of the agreement.	
	End User License Agreement	<u>^</u>
Licensor:		
JENOPTIK Optic Göschwitzer Str.	al Systems GmbH 25	
D-07745 Jena Germany		-
If you accept the t	erms of the agreement, click I Agree to continue. Yo	ou must accept the
agreement to insta	i Jenopuk Progikes Micro-Manager Driver,	
ullsoft Install System	v2.42	
	Rade TA	Cancel

5. Please select the components to install.

JENOPTIK	Choo Cho you	ose Components ose which features of Jeno want to install.	ptik ProgRes Micro-Manager Driver
Check <mark>t</mark> he compone install. Click Next to	ents you want i continue.	to install and uncheck the c	omponents you don't want to
Select components	to install: [USB Drivers	Description Position your mouse over a component to see its description.
Space required: 27	.8MB		
Nullsoft Install System	v2.42		

6. Please choose the Start Menu Folder.

	Choose Start Menu Folder	
юртік	Choose a Start Menu folder for the Jeno Micro-Manager Driver shortcuts.	ptik ProgRes
elect the Start Me	nu folder in which you would like to create the prog	gram's s <mark>hortcuts. Yo</mark> u
an also enter a na	ne to create a new folder.	
Jenoptik\Micro-Ma	nager	
Accessories		
Administrative Too	s	
Games		
ImageJ		
IrfanView		=
Jenoptik		
Maintenance		
Media Cybernetics		122
Micro-Manager-1.3		
Mozilla Firefox		
NeoSmart Technolo	ogies	
Do not create sh	ortcuts	
	u7 47	
toft Install System		

7. Please select the destination folder to install the Jenoptik Micro-Manager driver for ProgRes® microscope cameras

Note: It is necessary to install the Jenoptik Micro-Manager driver for ProgRes® microscope cameras in the Main folder of the Micro-Manager software.

🔇 Jenoptik Pro	gRes Micro-Manager Driver Setup			x
JENOPTIK	Choose Install Location Choose the folder in which to install Jenc Micro-Manager Driver.	optik ProgR	les	
Select Micro-I	Manager 1.3 installation folder.			
Destination	Folder			
C:\	, oucl	Brow	vse	
Nullsoft Install S	vstem v2.42 < Back	stall	Car	icel
	Ordner suchen Select the folder to install Jenoptik ProgRes Micro-Manager Micro-Manager-1,3 Micro-Manager	er Driver		

8. After the selection of the destination folder, please follow the instructions for installation.

	Choose Install Location
ΝΟΡΤΙΚ	Choose the folder in which to install Jenoptik ProgRes Micro-Manager Driver.
Select <mark>Micro-Manag</mark>	ger 1.3 installation folder.
Destination Folde	a.
Destination Folde C:Wicro-Mana	ger-1.3\
Destination Folde C: Wicro-Mana Space required: 11	er ger-1.3\ Browse
Destination Folde C: Wicro-Mana Space required: 11 Space available: 24	er ger-1.3\ .8MB 46.5GB
Destination Folde C: Wicro-Mana Space required: 11 Space available: 24 ullsoft Install System	er ger-1.3\ Browse Browse Browse 92.42

9. installation has been completed

G Jenoptik ProgRes Micro-Ma	anager Driver Setup	
JENOPTIK	Completing the Jenopti Micro-Manager Driver S Jenoptik ProgRes Micro-Manager Drive your computer. Click Finish to close this wizard.	ik ProgRes Setup Wizard r has been installed on
	< Back Fini	sh Cancel

10. Now you can plug in the ProgRes® microscope camera and the system will setup the driver automatically.

11. After successfully setup of the driver for ProgRes® microscope cameras, you have to start the Micro-Manager software with default Micro-Manager startup configuration file "MMConfig_demo.cfg".



12. Now it is necessary to create your personal configuration file which includes the ProgRes® microscope camera driver. Please start the "Hardware Configuration Wizard" under "Tools".

🔬 ImageJ			L	- - X
File Edit Imag	ge Process Analyze Plugi	ins Windo	w Help	
	✓ ↓ ↓ ▲ ▲ <	1	1 🛔 🗐 🗞	>>
lmageJ 1.43j; Java	1.6.0_10 [32-bit]; 360 commands;	13 macros		
System: C:\Micro	-Manager-1.3/MMConfig_demo.cfg	9		- 0 ×
File Image5D Tool	s Plugins Help	_		
🛐 Snap 🦈	Refresh GUI	iguration s	ettings	Save
Live	Rebuild GUI	IP	Preset	
Acquire		era		
	Script Panel	inel	DAPI	
	Device/Property Browser	tPath	Eyepiece	
Burst		ctive	10X	
Refresh	XY List	em	Startup	
ROI	Multi-Dimensional Acquisition	20		
	Burst Acquisition	»: +	Edit Pres	Edit
Full	Split View			
Auto	Mouse Moves Stage			
Log hist.		1		
Min	Hardware Configuration Wizard			
Max	Pixel Size Calibration			
Avg	Load Hardware Configuration			
Sta Dev	Save Configuration Settings			
camera	Options			
V Auto-stretch				
Gamma 1		0		
mana ciza: 512 V 512	V 1 Intensity range: 9 hits 1000nm/nin	7-0.00um)	(X=(0.00, 0.00)um	

13. Please choose "Create new configuration" and go to "Next".

Hardware Configuration Wizard		×
Step 1 of 9: Select the configuration file		
Create new configuration Modify or explore existing configuration		
C:\Micro-Manager-1.3/MMConfig_demo.cfg	Browse	
The Configuration Wizard will help you configure the Micro-Manager so with your hardware setup. In this first step you decide whether to creat hardware configuration or modiy an existing one. Either way, you will b the name of the new or modified configuration file at the end of the Wiz or any time you quit the wizard.	oftware to work e a new e prompted for zard sequence, k Next :	

14. Please go to Step 3 of 9 and then please go to "Add..."

tep 3 of 9: Add or r	emove devices		
Name	Adapter/Library	Description	Add
Core	MMCore/Default	Core controller	Remove
enceforth to s	pecify the device.		
enceforth to s	pecify the device.		
enceforth to s	pecify the device.		
nenceforth to s Device names The first column	pecify the device.	ed name for this particular	r configuration. You
enceforth to s Device names The first column an edit device inique and sho	pecify the device. s n shows the device's assigned names by double-clicking in vuld not contain any special (ed name for this particular the first column. Device r characters. In subsequen	r configuration. You names must be t steps of the
enceforth to s Device names The first column an edit device inique and sho Vizard all devic	pecify the device. s n shows the device's assigne names by double-clicking in build not contain any special ces will be referred to by thei	ed name for this particular the first column. Device r characters. In subsequen r assigned names.	r configuration. You names must be t steps of the

15. Please choose the ProgRes® microscope camera driver and confirm with "Add".

Note: After adding the ProgRes® microscope camera, you have the possibility to change the device name of the adapter.

Library	Adapter	Description		Add
ProgRes	Jenoptik-ProgRes	Jenoptik ProgRes Camera		
PVCAM	Camera-1	Universal PVCAM interface - camera slot 1		Done
PVCAM	Camera-2	Universal PVCAM interface - camera slot 2		
QCam	QCamera	QImaging universal camera adapter		
ScionCam	ScionCam	Scion 1394 Camera		
Sensicam	Sensicam	PCO Sensicam camera adapter		
SimpleAF	SimpleAF	Exhaustive search AF - 100XImaging Inc.		
SimpleAutofocus	SimpleAutofocus	SimpleAutofocus Finder		
SpectralLMM5	LMM5-Hub	Description N/A		
SpectralLMM5	LMM5-Shutter	Description N/A		
SpotCamera	Spot	SpotCam		
SutterLambda	Wheel-A	Lambda 10 filter wheel A		
SutterLambda	Wheel-B	Lambda 10 filter wheel B		
SutterLambda	Wheel-C	Lambda 10 wheel C (10-3 only)		
SutterLambda	Shutter-A	Lambda 10 shutter A		
SutterLambda	Shutter-B	Lambda 10 shutter B		
SutterLambda	Shutter-DG4	DG4 shutter		
SutterLambda	Wheel-DG4	DG4 filter changer		
ThorlabsDCxxxx	Thorlabs DC2010/DC2	DC2010/DC2100 High Power LED Driver		
ThorlabsDCxxxx	Thorlabs DC3100	DC3100 FLIM LED Driver		
ThorlabsDCxxxx	Thorlabs DC4100	DC4100 Four channel LED Driver		
ThorlabsFilterWheel	Thorlabs Filter Wheel	Thorlabs filter wheel	=	
ThorlabsSC 10	SC10	ThorLabs SC10 shutter controller		
TIScam	TIS_DCAM	TIScam		
TwainCamera	TwainCam	Twain camera		
Utilities	Multi Shutter	Combine multiple physical shutters into a		
Utilities	DA Shutter	DA used as a shutter		
Jtilities	DA Z Stage	DA-controlled Z-stage	-	

16. After adding the ProgRes® camera device, please klick the "Done" button to close the "Add Device" window.

Library	Adapter	Description	Add	Step 5 or 9: Add or remov	e devices		
ProgRes	Jenoptik-ProgRes	Jenoptik_ProgRes_Camera	A Done	Name	Adapter & ibrary	Description	Add
PVCAM	Camera-1	Universal PVCAM interface - camera slot 1		Name	Adapter/Library	Description	L
PVCAM	Camera-2	Universal PVCAM interface - camera slot 2		Core	MMCore/Default	Core controller	Remove
QCam	QCamera	QImaging universal camera adapter		Jenoptik-ProgRes	Jenoptik-ProgRes/ProgRes	Jenoptik_ProgRes_Camera	L
ScionCam	ScionCam	Scion 1394 Camera					
Sensicam	Sensicam	PCO Sensicam camera adapter					
SimpleAF	SimpleAF	Exhaustive search AF - 100XImaging Inc.					
SimpleAutofocus	SimpleAutofocus	SimpleAutofocus Finder					
SpectralLMM5	LMM5-Hub	Description N/A					
SpectralLMM5	LMM5-Shutter	Description N/A					
SpotCamera	Spot	SpotCam					
SutterLambda	Wheel-A	Lambda 10 filter wheel A					
SutterLambda	Wheel-B	Lambda 10 filter wheel B					
SutterLambda	Wheel-C	Lambda 10 wheel C (10-3 only)					
SutterLambda	Shutter-A	Lambda 10 shutter A					
SutterLambda	Shutter-B	Lambda 10 shutter B					
SutterLambda	Shutter-DG4	DG4 shutter					
SutterLambda	Wheel-DG4	DG4 filter changer					
ThorlabsDCxxxx	Thorlabs DC2010/DC2	. DC2010/DC2100 High Power LED Driver		henceforth to speci	ifv the device.		
ThorlabsDCxxxx	Thorlabs DC3100	DC3100 FLIM LED Driver		850			
ThorlabsDCxxxx	Thorlabs DC4100	DC4100 Four channel LED Driver		Device names			
ThorlabsFilterWheel	Thorlabs Filter Wheel	Thorlabs filter wheel		Device names		-	
ThorlabsSC 10	SC10	ThorLabs SC10 shutter controller		The first column sh	lows the device's assigned n	ame for this particular con	figuration. You
TIScam	TIS_DCAM	TIScam		can edit device nar	mes by double-clicking in the	first column. Device name	s must be
TwainCamera	TwainCam	Twain camera		unique and should	not contain any special cha	racters. In subsequent step	os of the
Utilities	Multi Shutter	Combine multiple physical shutters into a		Wizard all devices	will be referred to by their as	signed names	
Utilities	DA Shutter	DA used as a shutter		Linear a all devices i	and be referred to by their da		
Utilities	DA 7 Stage	DA-controlled 7-stage	_			< Back	Next >

17. Please go to the Step 9 of 9 with "Next" and rename the configuration file. Please click the button "save and test the new configuration" and leave the "Hardware Configuration Wizard" with "Exit".

Hardware Configuration Wizard	x
Step 9 of 9: Test configuration, save and exit	
Configuration file:	
C:\Wicro-Manager-1.3\ProgRes.cfg Browse	
Save and test the new configuration	
Success!	
The configuration Wizard finished building the hardware configuration for your system.	
< Back Exit	
Sack Exit	

Now the new Micro-Manager configuration file has been successfully created and you can start to run the ProgRes® microscope camera with Micro-Manager software.

18. To set up all camera functions, please open the "Device/Property Browser" under Tools.



19. Work with the ProgRes® microscope camera and Micro-Manager software.

