

Working with the Property Browser

Abstract

Prop	Property Browser				
22: "Universal Detector" (# 618) (Profile: General)					
View	W Object Selections				
	Search				
	General		^		
►	Window Size (Width, Height)	601, 600			
	True To Scale	✓			
	Data Restricted Zoom	✓			
	Zoom Factor	9.675 px/µm			
	Colors				
	Color Table	Tricolor v			
	Data				
	Subset Index	1			
	Field Quantity	Amplitude v			
	Format of Color Scale	Engineering ~			
	Auto Scaling of Data	✓			
	Displayed Data Range	[9.4263 V/m; 535.06 V/m]			
	View Interpolation	Pixelated View ~			
	Labels		\sim		

When investigating any kind of result, a quick and easy access to all necessary information is key. For this purpose, VirtualLab Fusion uses the Property Browser to relay a complete summary of physical and numerical information about any selected object directly to the user.

Where to find the Property Browser?



The *Property Browser* can be found at the right side of the main window. It shares the same panel with the *VirtualLab Explorer*, the *Assistant* and *Distributed Computing*.

The displayed options and properties are dependent on the type of active* document (e.g., data array, optical setup etc.).

*The active document is the last document the user have clicked on.

Property Browser for Optical Setups – General Tab

Vyrowski VirtualLab Fusion 2025.1 (B	Build 1.172) — 🗇 🗙
File Start Sources Functions Catalogs Windows Help Profile Editing & Run Layout Tools Gol Ray Results General Profile Profile Parameter Use Parameter System: Detectors: Parameter System: Detectors: Manual Configuration • \$\$ Source to Component: Between Component: To Detectors: Paramial Assumptions % Sp Execution Settings Result Visualization Result Visualization Light Path Finder Pointwise • Pointwise • Pointwise • Pointwise • Pointwise • % Sumptions	peed vs. Accuracy pointwise vs. Integral Positioning • View Variation •
System Elements Default Elements Default Elements Elements Elements Default Elements Elements Default Elements Elements Default Default Default Elements First Surface with Coating Spherical Lens Camera Detector Spherical Wave (589 nm) Image: Default Image: Default Elements Default Image: Defa	importing browser 4 importing browser 4 importing browser 5 importing browser 5 importing browser 6 importing browser 6 importing browser 6 importing browser 6 importing browser 1 importing browser 1
Simulation Engine Profile: Ray Results V Sol	
E S: "Field M Detector Results	Paramete Property VirtualLab Assistant Distribute

When an *Optical Setup* is the active document, the *Property Browser* contains two subsections, *General* and *Simulation Settings*.

In the *General* section, users can activate or de-activate the *Parameter Coupling* as well as the automatic save function.

Property Browser for Optical Setups – Simulation Settings



Alphabetical Order & Search Function

For better navigation, VirtualLab Fusion offers an alphabetically order function and a search function.

Property Browser			Property Browser	
6: D:\LightTrans\Demonstrati	on System.os		6: D:\LightTrans\Demonstra	ation Syste
Seneral Simulation Settings			General Simulation Settings	
Search			Energy	
Air Pressure	101.33 kPa		Energy Threshold	0.001 %
Channel Configuration Option	Manual	~		
Channel Resolution Accuracy	1			
Energy Threshold	0.001 %			
Maximum Level	100			
Process Logging Level	None	~		
Show Only Paths That Hit a	\checkmark			
System Temperature	20 °C			

д

System.os

Lab... Assistant Distribute..

Property Browser for Data Arrays



When an *Optical Setup* is the active document, the *Property Browser* contains two subsections, *General* and *Simulation Settings*.

In the *General* section, users can activate or de-activate the *Parameter Coupling* as well as the automatic save function.

Window Size



0.53506

0.27224

0.0094..

Label Size







Axis Descriptions



Ray & Background Color



Object - Tab

roperty	/ Browser Field Moni	tor" (# 602) in	x-Domain (Profile: General)	д
/iew	Object	Selections		
+i:: +::	2↓ Sear	ch		
⊿ Dir	nensions			^
No	of Data Su	bsets	2	
Co	ordinate Bo	undaries X	[-5 mm; 5 mm[
) Co	ordinate Bo	undaries Y	[-5 mm; 5 mm[
Co	ordinate Ex	tent X	10 mm	
Co	ordinate Ex	tent Y	10 mm	
Arr	ay Size X		9.9805 mm	۵ 🗸
Arr	ay Size Y		9.9805 mm	•
⊿ Int	erpretation			
ХС	Coordinate	Quantity	Length	
YC	oordinate	Quantity	Length	
XC	oordinate	Meaning	х	
YC	oordinate	Meaning	Y	
Sul	bset Quanti	ty	Electric Field Strength	
Sul	bset Meani	ng	Ex-Component	
🖌 Sar	mpling			
No	of Data Po	ints	(512; 512)	
Sar	mpling Dist	ance X	19.531 µm	\$
Sar	mpling Dist	ance Y	19.531 µm	\$ ~

The *Object* tab of the *Property Browser* contains various numerical and sampling related information about the data array, including array sizes, axis units and number of sampling points.

-Axis		y-Axis	
Description	×	Description	Y
hysical Property	Length 🔹	Physical Property	Length 👻
nterpolation Method	Nearest Neighbor \sim	Interpolation Method	Nearest Neighbor \sim
Dimensions		Dimensions	
Sampling Distance	✓ 78.125 nm	Sampling Distance	✓ 78.125 nm
Positioning		Positioning	
Start Coordinate v -20.014 µm		Start Coordinate	~ -19.961 μm
Equals minimum bo	oundary of 1st sampling interval	Equals minimum bo	oundary of 1st sampling interval
i r i r i i	r 	i r i r i	* † † † † † †
rapolation Mode:			
side Values are	ro		

A click on the button allows the user to directly change the corresponding parameter. The resulting window is the same as using the *Coordinate and Interpolation Settings* manipulation tool.



Selection - Tab





The *Object* tab of the *Property Browser* contains various numerical and sampling related information about the data array, including array sizes, axis units and number of sampling points.

Document Information

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Document code	TUT.0366
Publication date	08.07.2025
Required packages	-
Software version	-
Category	Tutorial
Further reading	- Logging in VirtualLab Fusion