Advanced 3D Stereo Molecular Visualization Display

schneider digital

3D PluraView

Dive into the Molecular Universe

Embark on a Journey of Molecular Discovery:
Unleash the Power of 3D stereo visualisation
For Scientists, Students, and Professionals in Molecular Exploration

- Flicker-free for continuous professional use
- Seamless Stereo Exploration
- Enhanced Interaction
- Molecular Precision at 8K resolution
- Connect to your Workstation
- Plug & play (No driver Installation)
- Breaking the Chains of 2D Limitations
- Effortless Use

3D Pluraview
Advanced Molecular Visualization:

Elevating Your Molecular Insight!
Where Science Meets Imagination

Embark on a revolutionary molecular exploration with the 3D PluraView System, delivering superior 3D stereo visualization tailored for molecular applications. This system ensures comfort and fatigue-free interaction across diverse 3D-stereo molecular simulations.

Driven by our innovative PluraView beam-splitter technology, experience pixel-precise stereoscopic 3D images at their finest. Configurable with up to 28" screen diagonals, 4K (UHD) resolutions, and a remarkable 10-bit color depth per pixel, the PluraView sets the benchmark for molecular visualization displays.

Introducing the integrated BlackTuner technology in our 27" and 28" monitors, enhancing visibility in dark, shadowed areas for comprehensive molecular exploration. With a rapid 1 ms screen refresh rate, our system ensures a seamless and smooth stereo image roaming, vital for intricate molecular structures.

Optimized polarization glasses, with superior stereo channel separation, eliminate "ghosting" and provide a cost-effective replacement solution for any scratches or damage.

Elevate your molecular visualization with the precision and clarity of 3D PluraView – defining the future of molecular exploration.

Why 3D Pluraview?
Because Your Molecules Deserve a Stage

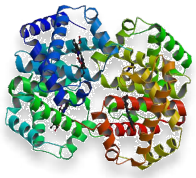
Journey into the microscopic realm with 3D Pluraview, your ticket to a vivid and immersive molecular adventure. Say goodbye to flat, lifeless 2D displays and step into the future of visualization.
No more squinting at 2D models! With 3D Pluraview, witness the magic of stereoscopic imaging that breathes life into molecular structures. Feel the depth, understand the nuances, and let your scientific intuition soar.

Revolutionizing Molecular Visualization in Bioinformatics

Unlock an unparalleled 3D stereo experience tailored for molecular visualization in bioinformatics with Schneider Digital's 3D PluraView monitors. Crafted with optimized beam-splitter technology, these monitors ensure the highest quality in stereoscopic rendering on your desktop, providing an immersive experience for 3D professionals throughout the day.

Key Features:

Enhanced Stereoscopic Depth Perception



Enhanced Data Interpretation

Clear Visualization of Molecular Intricacies

Enhanced Collaborative Analysis

Improved Spatial Cognition

Seamless Integration into Workflows

High-Resolution Stereoscopic Imaging

Interaction and Exploration

Spatial Thinking for Molecular Maestros

Elevate Your Spatial Game, Unleash Your Inner Chemist

For every student dreaming of unraveling the secrets of molecules or professionals striving for breakthroughs, 3D Pluraview enhances your spatial thinking skills. Say hello to a new era of clarity in molecular interpretation.

Virtual Reality Meets Molecular Reality

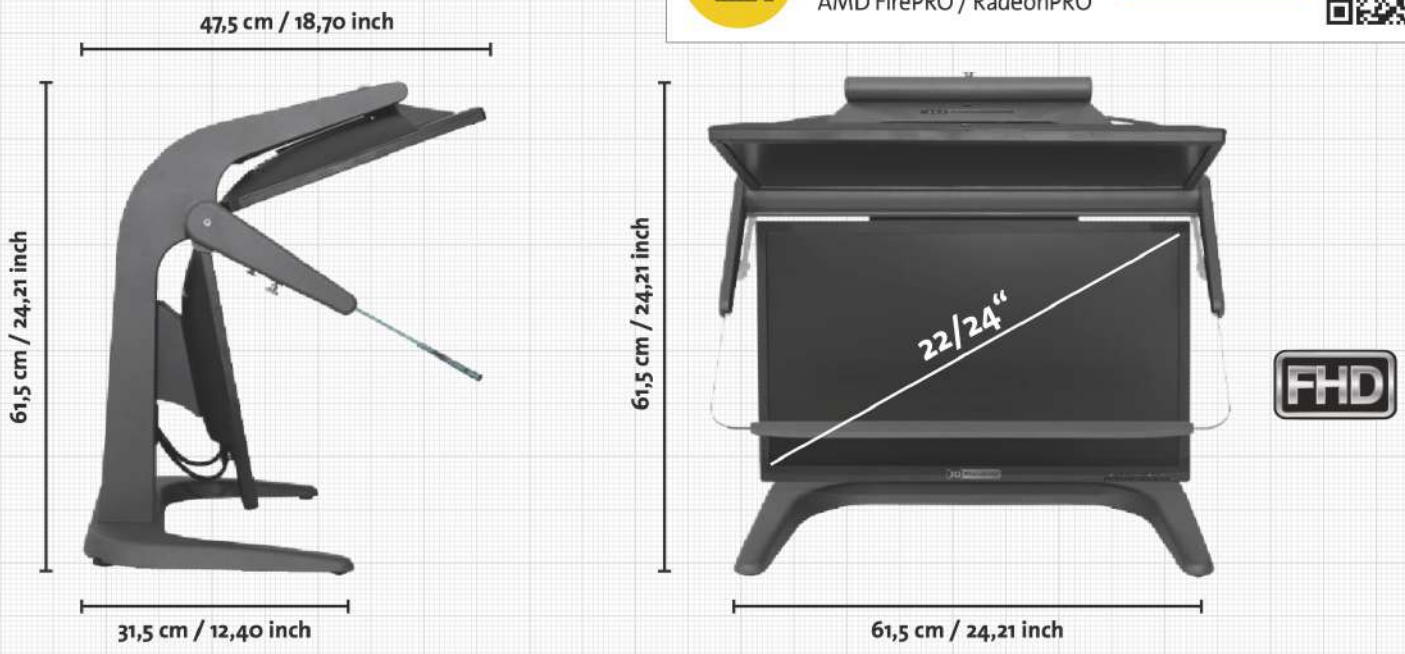
Step into a Virtual World of Biomolecular Wonders

Leave the mundane behind and enter the realm of virtual reality for biomolecular exploration. Navigate through structures, witness functions, and grasp interactions like never before. Your journey begins with 3D Pluraview.

3D PLURAVIEW MONITOR SPECIFICATIONS		
	22" FHD	**24" FHD**
Display	21.5" (546 mm) Screen Size 2x 1,920 x 1,080 Resolution (2.1 MP) 16.7 Million Colors (8-bit) 250 cd/m² Brightness	24" (610 mm) Screen Size 2x 1,920 x 1,080 Resolution (2.1 MP) 16.7 Million Colors (8-bit) 350 cd/m² Brightness
	LED BackLit-Technology 2 ms Response Time 170 °/160 ° Viewing Angle (H/V)	LED BackLit-Technology 1 ms Response Time 170 °/160 ° Viewing Angle (H/V)
	Contrast Ratio: 200,000: 1 ACR	Contrast Ratio: 1,000 : 1 static
Frame Rate	60 Hz	144 Hz
3D-Characteristics	160 cd/m² Brightness with glasses 1,920 x 1,080 per eye resolution	210 cd/m² Brightness with glasses 1,920 x 1,080 per eye resolution
	Linear Polarization 45°/135° beam-splitter: 50%-transparency, polarized mirror	
3D-Formats	Quad Buffered OpenGL, Side-by-Side, Top-Bottom, Quad-Buffered DirectX	
Operating Systems	Windows / Linux / macOS-Compatibility, Windows-10 und Windows-11 Certification	
Power Consumption	Power Consumption 53W typical; max. 1W in Power Management Mode; Annual Power Consumption 94 kWh / year	Power Consumption 61W typical; max. 1W in Power Management Mode; Annual Power Consumption 135 kWh / year
	Power Management VESA DPMS™, Energy Star 6.0 Efficiency Class B	
Weight	23 kg system weight with stand	26 kg system weight with stand
Measurements	54 x 59 x 46 cm (W x H x D)	61.5 x 61.5 x 47.5 cm (W x H x D)
Interfaces	2x DisplayPort 1.1 cable 2.5m	2x DisplayPort 1.2 cable 2.5m
	1 x main plug AC 100 - 240 V, 50 / 60 Hz	
Audio	Integrated Speakers 2 x 2 W	
Design	Diamond Dark Alu/Steel Construction Integrated Electronics Adjustable Stand Made in Germany	
Technical Notes	2x DisplayPort 1.1 output from the graphics card is required, optionally available as dual DVI version	2x DisplayPort 1.2 output from the graphics card is required for 144Hz; with DP 1.1 output - 120Hz screen refresh. FreeSync support with AMD graphics cards
Graphics Card Requirements	Any Quad-Buffer capable NVIDIA Quadro and AMD FirePRO / RadeonPRO cards, which have at least 2x DisplayPort 1.1 monitor outputs. It is recommended to use an additional side monitor for the 3D PluraView system, which is adapted to the polarization of the stereo system.	
Warranty	1 year manufacturer warranty, with optional carepack extended up to 5 Years	

Supported Graphics Cards:
All NVIDIA Quadro & all
AMD FirePRO / RadeonPRO

List of all cards ›



Pain Points with 2D Displays	Advantages of 3D Pluraview
Limited Depth Perception:	**Enhanced Stereoscopic Depth Perception:** 2D displays often struggle to convey the depth of molecular structures adequately. 3D Pluraview provides immersive stereoscopic depth perception, allowing users to navigate through complex molecular landscapes with true spatial awareness.
Detail Loss in Flat Representations:	**High-Resolution Stereoscopic Imaging:** 2D representations may lose intricate details of molecular structures. 3D Pluraview offers high-resolution stereoscopic imaging, preserving and emphasizing even the finest molecular details for a comprehensive view.
Spatial Understanding Challenges:	**Improved Spatial Cognition:** 2D interfaces make it challenging to grasp complex spatial relationships within molecular structures. 3D Pluraview facilitates improved spatial cognition, enabling users to intuitively understand the three-dimensional arrangements of atoms and molecules.
Static Interactions:	**Dynamic Interaction and Exploration:** 2D interfaces limit interactions to static representations. 3D Pluraview allows dynamic interaction and exploration, empowering users to manipulate molecular structures in real-time for a more engaging and interactive experience.
Data Overload and Ambiguity:	**Enhanced Data Interpretation:** 2D displays may struggle to interpret voluminous molecular datasets. 3D Pluraview provides immersive stereoscopic visualizations, helping users interpret complex data more efficiently and reducing ambiguity.
Clarity and Feature Obscurity:	**Clear Visualization of Molecular Intricacies:** 2D displays may obscure subtle molecular features. 3D Pluraview ensures clear visualization, emphasizing molecular intricacies and enhancing the overall clarity of complex structures.
Educational Challenges:	**Engaging Educational Experience:** 2D displays limit the effectiveness of educational experiences. 3D Pluraview offers an engaging educational experience, especially for students learning stereochemistry, by providing a true-to-life representation of molecular structures.

3D PLURAVIEW MONITOR SPECIFICATIONS		
	27" 2,5K	**28" 4K/UHD**
Display	27" (686 mm) Screen Size 2x 2,560 x 1,440 Resolution (3.7 MP) 16.7 Million Colors (8-bit) 350 cd/m² Brightness	28" (711 mm) Screen Size 2x 3,840 x 2,160 Resolution (8.3 MP) 1,073 Billion Colors (10-bit*) 300 cd/m² Brightness
	LED BackLit-Technology 1 ms Response Time 170 °/160 ° Viewing Angle (H/V) BlackTuner for enhancement of shadow areas	
	Contrast Ratio: 80,000,000 : 1 ACR	Contrast Ratio: 12,000,000 : 1 ACR
Frame Rate	60 Hz	60 Hz
3D-Characteristics	210 cd/m² Brightness with glasses 2,560 x 1,440 per eye resolution	180 cd/m² Brightness with glasses 3,840 x 2,160 per eye resolution
	Linear Polarization 45°/135° beam-splitter: 50%-transparency, polarized mirror	
3D-Formats	Quad-Buffered OpenGL, Side-by-Side, Top-Bottom, Quad Buffered DirectX	
Operating Systems	Windows / Linux / macOS-Compatibility, Windows-10 und Windows-11 Certification	
Power Consumption	Power Consumption 75W typical; max. 1W in Power Management Mode; Annual Power Consumption 131 kWh / year	Power Consumption 98W typical; max. 1W in Power Management Mode; Annual Power Consumption 173 kWh / year
	Power Management VESA DPMS™, Energy Star 6.0 Efficiency Class B	
Weight	25 kg system weight with stand	26 kg system weight with stand
Measurements	80 x 68 x 56 cm (W x H x D)	80 x 68 x 56 cm (W x H x D)
Interfaces	2x DisplayPort 1.2 cable 3m 2x USB 2.0	2x DisplayPort 1.2 cable 3m 2x USB 3.0
	1 x main plug AC 100 - 240 V, 50 / 60 Hz with power switch and fuse 3.15 A	
Audio	Integrated Speakers 2 x 2.5 W	Integrated Speakers 2 x 3 W
Design	Diamond Dark Aluminum Construction Integrated Electronics Adjustable Stand Made in Germany	
Technical Notes	2x DisplayPort 1.1 output from the graphics card is required AMD FreeSync support graphics cards	2x DisplayPort 1.2 output from the graphics card is required for 60Hz; with DP 1.1 output - 30Hz screen refresh. AMD FreeSync support graphics cards
Graphics Card Requirements	Any Quad-Buffer capable NVIDIA Quadro and AMD FirePRO / RadeonPRO cards, which have at least 2x DisplayPort 1.1 monitor outputs. It is recommended to use a side monitor for the 3D PluraView system, which is adapted to the polarization of the stereo system. * The feature 10-bit color depth with Quad-Buffer 3D stereo only works with AMD graphics cards.	
Warranty	1 year manufacturer warranty, with optional carepack extended up to 5 Years