



## 3D PluraView

The Reference for 3D-Stereo Displays



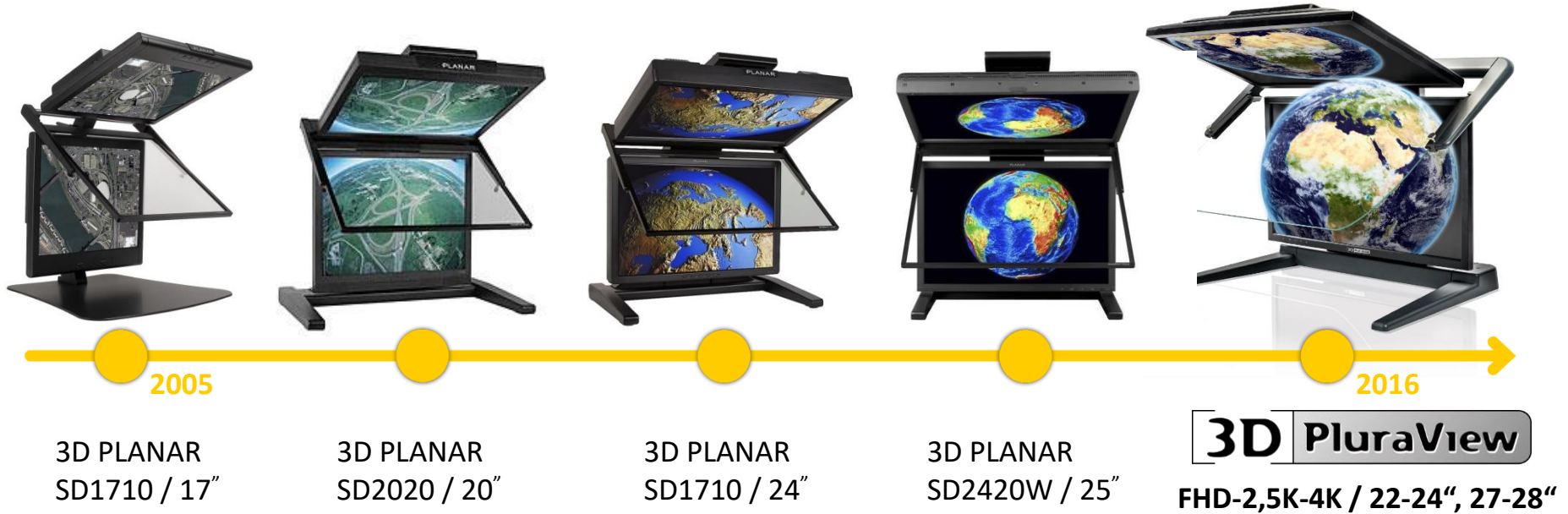
**schneider**  
*d i g i t a l*

Professional 3D-Hardware

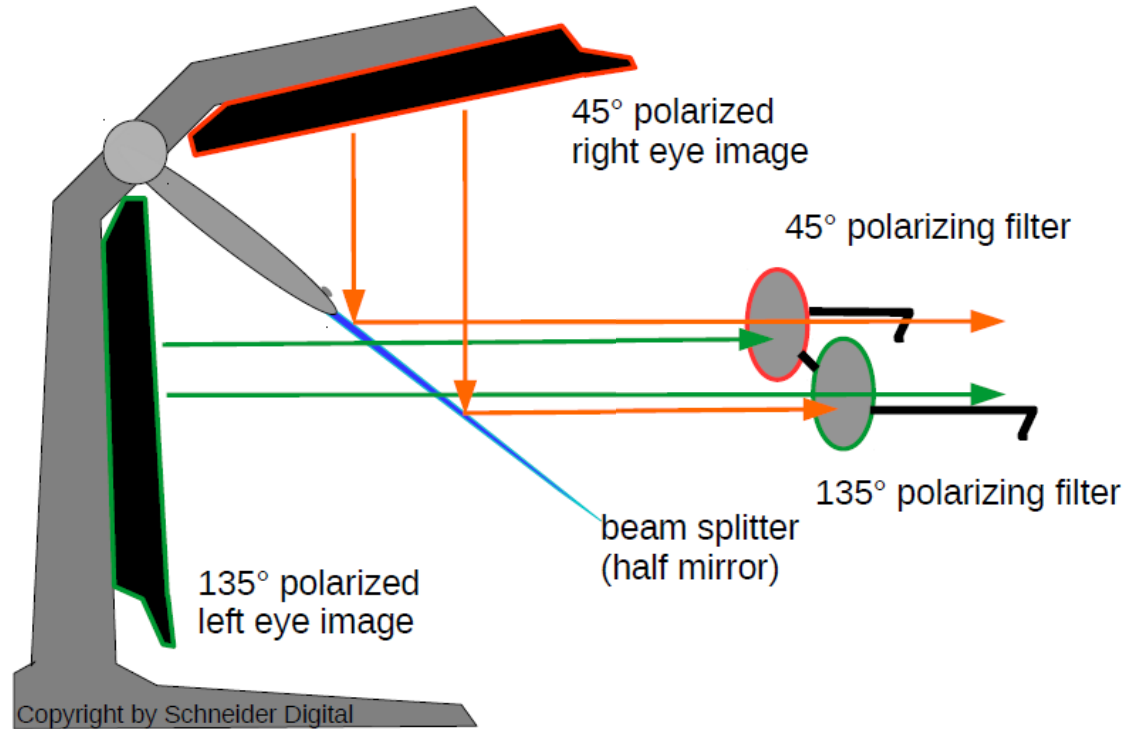
- ✓ Full-Service provider for professional 4K / 8K 3D- and VR-Hardware
- ✓ More than 25 years of experience in graphics- und high-performance-hardware solutions
- ✓ More than 15 years of experience with 3D-stereoscopic monitors and desktop VR systems
- ✓ Integrator for multi-monitor display walls und VR rooms



15 years of experience with passive 3D stereo systems



## Passive, dual screen 3D-stereo principle



Meeting the highest requirements for all 3D-stereo applications



Highest Resolution



Flicker-Free



Daylight Suitable



Plug & Play



Compact Assembly



Wide Visual Angle



Software Certified



Functional Design



Two assembly sizes, three resolutions, four screen diagonals



**FHD**

22"  
&  
24"

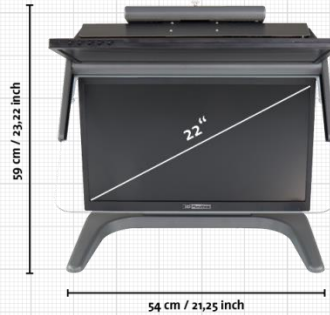
**2,5K**

27"

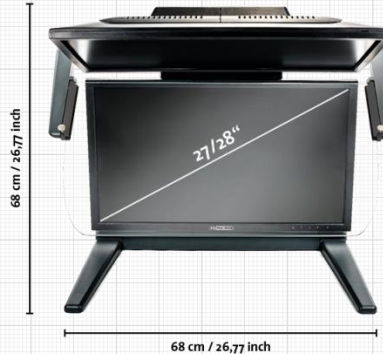
**4K**

28"

# The 3D PluraView Family – Suitable for every requirement



3D PluraView



3D PluraView



# Application Areas

Perfect 3D-Stereo – High brightness & contrast, no flickering - fatigue-free

- ✓ Biochemistry / Microscopy
- ✓ Oil & Gas Reservoir Modeling
- ✓ Simulation & VR Training
- ✓ CGI / 3D Video Editing
- ✓ Mechanical Design / CAD
- ✓ Archeology
- ✓ 3D City Model Visualization
- ✓ BIM & Laser Scanning (LiDAR)
- ✓ Photogrammetry / Stereo Imagery
- ✓ GIS / Mapping, 3D Data Integration
- ✓ Medical: CT, MRI, Ultrasound for Surgery Planning & Training
- ✓ Bio-Tech / Molecular Chemistry







**Active LCD shutter glasses** provide a comparatively dark 3D-stereo image → single screen and dark phase when switching

High-frequency shuttering strains the eyes and causes discomfort and fatigue over time



**Head-Mounted Displays (HMD)** are relatively heavy, can cause motion sickness, professional software currently have no data capture/data editing interfaces working with HMDs



**Line-by-line polarized** single screens only have 50% vertical resolution, i.e. pixel-accurate work is almost impossible, fonts and menus are hard to read



**Autostereoscopic monitors** work without glasses but have fixed viewing locations, where the distance and angle to the monitor allow stereo viewing. Stereo with eye-tracking works only for a single user!



# Advantages & Benefits

Choose the reference in stereo visualization!



**Passive-stereo** displays with dual screens are proven to be the best stereo desktop solution of all systems



3D PluraVIEW users can work relaxed in a normal office environment due to the **high image brightness**



The flicker-free 3D-stereo display with up to 4K resolution substantially increases user **motivation and productivity**



Many users have **long-term experience** with PLANAR and PluraView stereo monitors since 2005



The 3D PluraView models with up to 4K resolution per screen enable **new functionalities** in **BIM, LiDAR** and **Medical applications**



**NEW!** The **VR PluraView** with Head & Object Tracking as a professional addition to Head-Mounted Devices



## Multi-User interaction during VR Team-Meetings

- ✓ **Head & data glove tracking** for an intuitive VR experience
- ✓ Object manipulation with **spheres and pens**
- ✓ Absolutely flicker-free for fatigue-free interaction
- ✓ **Maximum brightness** for normal office environments
- ✓ Complement the use of Head-Mounted Devices

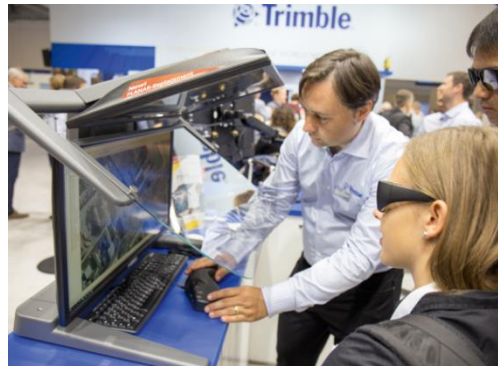




# Application Examples & References



RhinoTerrain RhinoCity



Trimble DTMaster



Terrasolid TerraStereo



esri ArcGIS Pro



DAT/EM Summit Evolution



Leica Geosystems HxMap




# Complete Solutions – 3D Controllers

For GIS and Photogrammetry data capture

softmouse 3D



 *Stealth 3D Mouse*



# Complete Solutions – 3D Controllers

3D controllers for navigation in CAx and simulation environments



# High-end graphic cards

AMD RadeonPRO & NVIDIA Quadro for quad-buffered stereo



RADEON  
PRO



PNY™



# Schneider-Digital, the full-service solution provider for...

... for professional 4K, 3D and VR hardware





## High-End Workstation-Solutions for professional environments



- Latest Intel Xeon, AMD EPYC or AMD Ryzen, AMD ThreadRipper processor technology
- High-speed processors (up to 2x 28 cores on Intel platform, up to 2x 32 cores on AMD EPYC)
- Up to 4 TB fast DDR-4 ECC memory
- Up to four high-end graphics cards for CUDA or OpenCL applications in a workstation
- High performance RAID with up to 12 Gbps. Transfer rate (SAS 3.0 technology) on request also with lightning-fast SSD (Solid State Disks) with up to 10 TB of disk space per unit
- Optionally - ultra-fast 10 GBit LAN for connection to file servers
- Highest quality for all components
- Offer includes server and cluster solutions

# 86" 3D-Stereo Touchscreen (UHD, 4K)



## Application areas:

- ☉ Conference rooms
- ☉ Events & Trainings

## Hardware requirements:

- ☉ Same as for the 3D PluraViews
- ☉ Only requires a single DP cable

## Software requirements:

- ☉ Same as for the 3D PluraView

✓ 86" LCD-Display

✓ Size 2m x 1.15m

✓ Passive 3D-Stereo und Tracking

✓ 32-point multi-touch system

✓ Line-polarized

✓ UHD (3.840 x 2.160) @ 60Hz

# LASER smart VR wall

for large-format, high-resolution 3D-stereo



- Cutting-edge laser projection technology for a service life of more than 10 years
- Highest brightness, six 4,000 ANSI lumen projectors
- 120 Hz technology
- Full 4K resolution even in 3D stereo
- Integrated wireless media control
- Freestanding construction, only 70cm depth

120Hz

4K

3D



# 3D PluraView – Software & Partners

## Some supported software applications



More than 200 software applications supported!



## 3D PluraView – Partners

### Global Sales Partners



TerraStereo



DAT/EM Systems



SOLITECH AD



Agisoft LLC



South



Schnell Tech



GeoDyn Technology



SWIFT INTEGRATOR

Swift Integrator  
Pte Ltd



SARL RhinoTerrain



Brisight Technology



Wipco 3D  
& Solutions



Kelyn Technologies



IGI – Integrated Geospatial  
Innovations



DS Deutsche  
Systemhaus GmbH



TP Holdings Japan



Steinbacher-Consult  
Ingenieurgesellschaft  
mbH & Co. KG



AirborneHydroMapping  
GmbH



TVISCompany,  
LLC.



Geomatika Smolčák  
doo



**AIRBUS**

*Johnson & Johnson*

**TUM**



**ASML**





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