FHD - 2,5K - 4K
NVIDIA 3D Vision Replacement

3D PluraView
The Reference of 3D-Stereo Monitors

- Flicker free for professional continuous use
- Highest brightness – Daylight suitable
- Two housing designs: 22”/24” or 27”/28”
- Wide visual angle – Multi-user capability
- Certified for photogrammetry and GIS
- Resolution FullHD, 2,5K or 4K
The innovative stereo photogrammetry monitor

Flicker free and high-resolution visualization for a perfect 3D-Stereo experience

The 3D PluraView from Schneider Digital is the further developed successor of the canceled PLANAR Beamsplitter-Series. Innovative, reliable technology is the foundation for precise, pixel accurate, stereoscopic image evaluation in highest quality, even in daylight. The 3D PluraView Beamsplitter technology delivers full monitor resolution up to 4K / UHD @ 10-bits in brilliant brightness thanks to one display per eye. This allows the user a comfortable, fatigue-free working in all 3D stereo applications.

That allows users to work comfortable and effortless in all 3D-Stereo-Applications. The new BlackTuner technology of the 3D PluraView supports the user to capture his objects even in dark areas of the image. A response time of only 1 ms reduces blurring in moving pictures. Newly developed polarization glasses with optimal channel separation also prevent “ghosting”. This is the key to perfect 3D stereo visualization in all professional GIS applications.

3D PluraView - The Reference of 3D-Stereo Displays

- Flicker free for relaxed 3D-operation professional continuous use
- Highest Brightness – Suitable for working near windows, one monitor being available for each eye
- Wide Visual Angle – suitable for meetings of groups of up to 5 people
- Highest resolution - up to 4K/UHD (8,3 MP per Eye) @ 10-Bit
- Certified for Photogrammetry and GIS (AGISOFT, ESRI, HEXAGON, TRIMBLE, etc.)
- Elegant design & highest quality – made in Germany
- Plug & Play Technology established for 14 years
Designed for GIS-Professionals

Unique 3D-Stereo experience – Daily continuous operation experience

The new Schneider Digital 3D PluraView monitor provides an innovative Beamsplitter-Technology for highest quality in stereoscopic illustration at desktop monitors. The 3D PluraView is ideally suited for all Stereo-Software-Applications in highly diverse branches:

- 3D City model visualization
- Photogrammetry
- GIS / Mapping
- Industrial Measuring / Laser Scanning
- Oil & Gas prospecting
- Archeology
- Crystallography / biochemistry
- Computed tomography & surgical planning
- Biochemistry / Microscopy
- CGI / 3D Video editing
- Mechanical Design / CAD
- Simulation & VR training

3D PluraView supported applications:

- 3D Zephyr
- Summit Evolution
- Stereo Analyst
- ESPA 3D
- ArcGIS
- ArcGIS Pro
- StereoCAD
- PhotoScan
- Socet Set / Socet GXP
- SCI-X
- GeoMedia
- WinATLAS
- TNTgis
- 3DM Content Manager
- uSMART
- Match-AT / DTMaster / UASMaster
- ContextCapture
- Vr Two
- DEPHOS
- TerraStereo
- LaserControl
- LiMON Viewer PRO
- Softplotter / KDSP
- CloudCompare
- TerraStereo
- HxMap
- Hexagon
- ERDAS IMAGINE
- ImageStation
- VirtuoZo
- Boeing
- PurVIEW
- Geosoft
- Schlumberger
- Emerson
- Digis3D
- PurVIEW
- Gcarto
- Petrel
- Emerson
- GeoProbe
- Kingdom
- JewelSuite
- GoCAD
- Halliburton
- IHS Markit
- Baker Hughes a GE company
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### 3D PLURAVIEW MONITOR SPECIFICATIONS

<table>
<thead>
<tr>
<th></th>
<th>22” FHD</th>
<th>24” FHD</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Display</strong></td>
<td>21,5” (546 mm) Screen Size</td>
<td>24” (610 mm) Screen Size</td>
</tr>
<tr>
<td></td>
<td>2x 1.920 x 1.080 Resolution (2.1 MP)</td>
<td>2x 1.920 x 1.080 Resolution (2.1 MP)</td>
</tr>
<tr>
<td></td>
<td>16,7 Million Colours (8-Bit)</td>
<td>16,7 Million Colours (8-Bit)</td>
</tr>
<tr>
<td></td>
<td>250 cd/m² Brightness</td>
<td>350 cd/m² Brightness</td>
</tr>
<tr>
<td><strong>LED Backlight-Technology</strong></td>
<td>2 ms Response Time</td>
<td>1 ms Response Time</td>
</tr>
<tr>
<td></td>
<td>170 ° /160 ° Viewing Angle (H/V)</td>
<td>170 ° /160 ° Viewing Angle (H/V)</td>
</tr>
<tr>
<td><strong>Frame rate</strong></td>
<td>60 Hz</td>
<td>144 Hz</td>
</tr>
<tr>
<td><strong>3D-Characteristics</strong></td>
<td>160 cd/m² Brightness Frame rate glasses</td>
<td>210 cd/m² Brightness with glasses</td>
</tr>
<tr>
<td></td>
<td>1.920 x 1.080 per Eye Resolution</td>
<td>1.920 x 1.080 per Eye Resolution</td>
</tr>
<tr>
<td></td>
<td>Linear Polarization 45°/135°</td>
<td>Beamsplitter: half transparency mirror</td>
</tr>
<tr>
<td><strong>3D-Formats</strong></td>
<td>Quad Buffered OpenGL, Side-by-Side, Top-Bottom, Quad Buffered DirectX</td>
<td></td>
</tr>
<tr>
<td><strong>Operating Systems</strong></td>
<td>Windows / Linux / macOS-Compatibility, Windows-10 Certification</td>
<td></td>
</tr>
<tr>
<td><strong>Power Consumption</strong></td>
<td>Power Consumption 53W typical, max. 1W in Power Management Mode Annual Power Consumption 94 kWh / year</td>
<td>Power Consumption 61W typical, max. 1W in Power Management Mode Annual Power Consumption 135 kWh / year</td>
</tr>
<tr>
<td></td>
<td>Power Management VESA DPMS™, Energy Star 6.0</td>
<td>Efficiency Class B</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>23 kg, set weight with stand</td>
<td>26 kg, set weight with stand</td>
</tr>
<tr>
<td><strong>Measurements</strong></td>
<td>54 x 59 x 46 cm (WxHxD)</td>
<td>61 x 60 x 49 cm (WxHxD)</td>
</tr>
<tr>
<td><strong>Interfaces</strong></td>
<td>2x DisplayPort 1.1 cable 2.5m (integrated)</td>
<td>2x DisplayPort 1.2 cable 2.5m</td>
</tr>
<tr>
<td></td>
<td>1 x main plug AC 100 - 240 V, 50 / 60 Hz</td>
<td></td>
</tr>
<tr>
<td><strong>Audio</strong></td>
<td>Integrated Speaker 2 x 2 W</td>
<td></td>
</tr>
<tr>
<td><strong>Design</strong></td>
<td>Diamond Dark Alu/Steel Construction</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Integrated Electronics</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Adjustable Stand</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Made in Germany</td>
<td></td>
</tr>
<tr>
<td><strong>Technical Notes</strong></td>
<td>2x DisplayPort 1.1 output to the graphics card is required, optionally available as dual DVI version</td>
<td>2x DisplayPort 1.2 output on the graphics card is required for 144Hz, with DP 1.1 is 120Hz operation possible. FreeSync support with AMD</td>
</tr>
<tr>
<td><strong>Graphics Card Requirements</strong></td>
<td>Any QuadBuffer capable NVIDIA Quadro and AMD FirePRO / RadeonPRO cards, which have at least 2x DisplayPort 1.1 monitor outputs. The use of an additional, it is recommended to use the side view monitor for the 3D PluraView, which is adapted to the polarization of the stereo system.</td>
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<tr>
<td><strong>Warranty</strong></td>
<td>1 Year Warranty without exclusion, with carepack extended up to 5 Years</td>
<td></td>
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</table>
# 3D PLURAVIEW MONITOR SPECIFICATIONS

<table>
<thead>
<tr>
<th>Display</th>
<th>27&quot; 2.5K</th>
<th>28&quot; 4K/UHD</th>
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<tbody>
<tr>
<td>Screen Size</td>
<td>27&quot; (686 mm)</td>
<td>28&quot; (711 mm)</td>
</tr>
<tr>
<td>Resolution</td>
<td>2x 2,560 x 1,440 (3.7 MP)</td>
<td>2x 3,840 x 2,160 (8.3 MP)</td>
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<tr>
<td>Brightness</td>
<td>350 cd/m²</td>
<td>300 cd/m²</td>
</tr>
<tr>
<td>Colors</td>
<td>16.7 Million (8-Bit)</td>
<td>1.073 Billion (10-Bit*)</td>
</tr>
</tbody>
</table>

- **LED BackLight-Technology**
- **1 ms Response Time**
- **70°/760° Viewing Angle**
- **BlackTuner for lightening of the shades**
- **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 | 180 cd/m² Brightness with glasses |
| Resolution | 2x 2,560 x 1,440 per Eye | 3x 3,840 x 2,160 per Eye |
| Polarization | Linear Polarization 45°/135° | Beamsplitter: half transparency mirror |

### 3D-Formats
- Quad Buffered OpenGL, Side-by-Side, Top-Bottom, Quad Buffered DirectX

### Operating Systems
- Windows / Linux / macOS-Compatibility, Windows-10 Certification
- Windows / Linux / macOS-Compatibility, Windows-10 Certification

### Power Consumption
- Power Consumption 75W typical; max. 1W in Power Management Mode
- Power Consumption 98W typical; max. 1W in Power Management Mode
- Annual Power Consumption 131 kWh / year
- Annual Power Consumption 173 kWh / year
- Power Consumption 98W typical; max. 1W in Power Management Mode
- Power Consumption 173 kWh / year

### Weight
- 25 kg, set weight with stand
- 26 kg, set weight with stand

### Measurements
- 80 x 68 x 54 cm (WxHxD)
- 80 x 68 x 54 cm (WxHxD)

### Interfaces
- 2x DisplayPort 1.2 cable 3m
- 2x DisplayPort 1.2 cable 3m
- 2x USB 3.0
- 1x main plug AC 100 - 240 V, 50 / 60 Hz with power switch and fuse 3.15 A

### Audio
- Integrated Speaker 2 x 2.5 W
- Integrated Speaker 2 x 3 W

### Design
- Diamond Dark Aluminum Construction
- Integrated Electronics
- Adjustable Stand
- Made in Germany

### Technical Notes
- 2x DisplayPort 1.1 output to the graphics card is required
- AMD FreeSync support

### Graphics Card Requirements
- Any QuadBuffer capable NVIDIA Quadro and AMD FirePRO / RadeonPRO cards that have at least 2x DisplayPort 1.1 monitor outputs. It is recommended to use an additional side view monitor for the 3D PluraView, which is adapted to the polarization of the stereo system.
- ** AMD FreeSync support**

### Warranty
- 1 Year Warranty without exclusion, with carepack extended up to 5 Years
The reference of passive 3D stereo monitors

3D PluraView Family - For the highest requirements in GIS and Mapping

Especially for GIS applications, users are faced with the challenge of quickly loading large amounts of data and visualizing them in a stereoscopic display on a suitable 3D monitor. Those who have been working daily in their professional environment, e.g. in the GEO computer science or in laser point cloud applications on high-resolution 3D-Stereo-visualization relies, wishes a flicker-free, daylight-suitable 3D-Display, which allows him an almost fatigue-free stereoscopic work over the whole day.

These are precisely the requirements of Schneider Digital’s 3D PluraView family of passive stereo displays based on the long-established beam splitter technology. The 3D PluraView monitors are specifically designed for the stereoscopic display of 3D software applications in industries such as photogrammetry, point cloud visualization of laser scans, and 3D data visualization. Only with the linear passive stereo filters are homogeneous, closed surfaces and textures reproducible down to the smallest detail.

3D PluraView - Advantages & Benefits

- Passive Stereo Monitors have the highest user acceptance of any 3D display technology available on the market
- Long-term experience of highly-qualified, satisfied users who have been working with it for 14 years proves the user-friendliness
- Thanks to their high brightness, 3D PluraView users can work relaxed even in window seats
- The flicker-free 3D stereo display with the highest resolution measurably increases the motivation of the users
- The 3D PluraView models with 4K resolution per eye provide new application possibilities in the display of point clouds and 3D city models.
- NEW! Professional supplement to the HMD: PluraView PluraView with head & object tracking
Certified for leading GIS software

3D PluraView application and practice examples
**3D PluraView functions and advantages**

With the involvement of experienced users, we have with our engineers the beam splitter technology of PLANAR further developed:

- State-of-the-art DisplayPort 1.2 mirror card with Free-Sync / G-Sync / ULMB support guarantees a synchronous, latency-free image signal with up to 4K / 10bit color depth.
- The mirror card integrated in the 3D PluraVIEW eliminates any build-in in the workstation and even allows operation on a mobile workstation, provided there certified graphics cards are installed.
- Greatly reduced ghosting, thanks to the polarization goggles, which have been optimized precisely for the monitors and mirror glasses used.
- Innovative BlackTuner technology for secure object detection in dark areas of the 27/28 "model
- Central power supply with integrated power switch for complete network separation, thereby 0 Watt power consumption when switched off (27/28 "model)
- Mirror fine adjustment for exact image overlay
- Highest product quality - Made in Germany

**Limitations of alternative 3D-Displays**

- The active shutter technology of LCD-Monitors produces a very dark stereo image.
- High-frequency shuttering puts strain on the eyes and leads to rapid fatigue. Daylight or neon light amplifies the flicker.
- "Nvidia 3D Vision" is no longer supported by the manufacturer.
- The color representation distorted by anaglyph glasses with red-blue filters is extremely stressful in the long term. In addition, a dark, low-contrast stereo image is generated.
- Reduce line-wise circularly polarized displays the stereo resolution by 50%. Fonts and menus are hard to read at half resolution. Pixelaccurate work impossible. The filters on monitor and 3D glasses lead to a dark stereo image.

Choose the reference in stereo visualization!
GIS Performance-Workstations

Schneider Digital has been specializing in tailor-made hardware solutions for professional 3D graphics since 1995. The company’s expertise is focused on the conception, build and configuration of performance workstations, which are exceeded by flexible upgrade options and long-term upgrade ability.

By the collaboration with many hardware manufacturers, software companies and independent research institutes we’re informed at first-hand about the most recent developments. Our close contacts to various users are equally valuable for us. The result is a workstation solution from practical experience for practical application.

The challenge for GIS-applications is the combination of loading quickly large data quantities and visualizing them in a stereoscopic image on a suitable 3D monitor. Only if all hardware components display the required capacities and specialization, a fast motion within orthophotos is possible.

We not only know your applications in the main area of application for photogrammetry or geodesics, but also right up to the creation of 3D city models, digital GIS landscape models or even special tasks like architecture and accident photogrammetry.

By additional sound isolation and customized cooling solutions our workstations are furthermore very pleasant “employees”.

High-End workstation solutions for complex GIS requirements

- Newest Intel® Xeon®, AMD EPYC™ or AMD Ryzen™ Threadripper™ processor technology
- Up to four High-End graphic cards for CUDA or OpenCL applications in one workstation
- High speed processors (up to 2x 56 Cores on Intel platform, up to 2x 64 cores with AMD EPYC)
- Up to 8 TB fast DDR-4 ECC memory
- Latest U.2 NVMe SSDs with 32Gbit / s. Interface and allow up to 15TB per drive, super fast internal High performance RAID systems with more than 120 Terabytes To form data volume. Of course you can also configure M.2 NVMe as well as SAS 3.0 drives.
- Optional ultra-fast 10Gb LAN for connection to the file server
- Highest quality of used components
- 19” Rackmount compatible
- Also server and cluster solutions possible
NVIDIA Quadro RTX 5000 delivers outstanding performance and quality. With up to 3,072 CUDA/OpenCL programmable, parallel processing units and a graphic memory of 16GB GDDR6 ECC, the Quadro RTX 5000 is the perfect solution for complex applications such as biomedical sciences and seismic research, oil and gas prospection or photogrammetry.

The use of the correct driver is just as important, because only the ideal interaction between graphic card driver and application ensures full graphic card performance. It takes constant adapting of hardware drivers to guarantee a smooth operation with perfect results. Thus explaining the immense development effort from AMD and NVIDIA.

If the OpenGL core is up to date, the graphic memory bandwidth measured by GB/sec and main memory size of the graphic card is more significant. Modern OpenGL commands are loading the complete model into the graphic card RAM. All further changes are triggered by short OpenGL commands to the GPU and being utilized directly at the graphic memory. The finished result is transferred to the monitor outputs immediately.

**AMD RadeonPRO WX9100 and NVIDIA Quadro RTX 5000**

The right choice of graphics card decides many times about quality and productivity. With 16GB of superfast HBM2 ECC RAM, OpenGL 4.6 support and 4,096 OpenCL enabled, parallel processing units, AMD FirePRO WX9100 provides an excellent Performance and scalability to large data sets evaluate and visualize.

The six monitor outputs of the AMD RadeonPRO WX9100 allow you to simultaneously control two monoscopic monitors and a 3D PluraView evaluation screen with just one professional graphics card. Even two 3D PluraView stereo monitors can be operated with just one graphics card.

If the OpenGL core is up to date, the graphic memory bandwidth measured by GB/sec and main memory size of the graphic card is more significant. Modern OpenGL commands are loading the complete model into the graphic card RAM. All further changes are triggered by short OpenGL commands to the GPU and being utilized directly at the graphic memory. The finished result is transferred to the monitor outputs immediately.

All GIS graphics cards are suitable for multi-monitor operation.
3D-Mice

The perfect measurement device for GIS, photogrammetry and mapping

3D mice are ergonomic high performance 3D controllers to increase productivity and comfort in demanding 3D applications. With 10 freely programmable buttons, the user has up to 32 functions and macros “at hand”. This allows 3D mice a more efficient operation in GIS and photogrammetry applications, helping to reduce fatigue to reduce symptoms.

Functions & advantages

- USB: plug and play compatibility. (COM versions still available)
- Supported by all photogrammetry software applications
- Made in USA with patented design
- Warranty and hardware & software support through our STEALTH Sales & Service Center Europe
- Comfortable ambidextrous usability for GIS, photogrammetry and surveying applications
- The optical mouse with its high-resolution laser works excellently on all non-reflective ones surfaces and requires no maintenance
- The Z-wheel with a resolution of 1024 steps per rotation allows fast and accurate measuring function
- Accurate X-Y laser navigation for exact attitude control.
- Programmable buttons with tested 10 million clicks ensure a long service life

Support for ALL Windows, Linux & macOS including 32 & 64 bits.
High resolution
FullHD, 2.5K or 4K per eye

Flicker free
for professional continuous use

Daylight suitable
through two bright and high-contrast displays

Wide Visual Angle
for comfortable work even in a team

Compact design
Two different housings for optimal space utilization

Noble design
Highest quality
Made in Germany

Supported graphics cards
all NVIDIA Quadro & all AMD FirePRO / RadeonPRO

Plug & Play
Works without driver with Microsoft / LINUX / macOS

Software Certified
for all 3D stereo applications

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