

# We are – a full-service GeoIT hardware provider

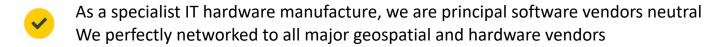




# Schneider Digital – Your partner for processing & visualization



Professional 3D-Hardware





- Focused to provide best display and processing hardware price/performance, matching the software requirements to user and project resources
- We are passionate about stereoscopic visualization and data interaction, act as development partner for many software companies!
- We are driving development: Bi-directional, active collaboration with soft- and hardware manufacturers, connecting hardware capabilities to geospatial applications.





















rdinal systems











# Compatible with all operating systems – from Windows XP to Windows 11



PLANAR SD monitors and the Schneider Digital 3D PluraView use the ,passive Stereo' principle with dual screens for full stereo resolution per eye and passive (no batteries), cross-polarized glasses.

- ✓ very light-weight, comfortable glasses ⇒ no flickering ⇒ no headaches
- ✓ bright & contrast-rich image ⇒ daylight compatible











2016

2022, 2023, 2024,

3D PLANAR SD1710 3D PLANAR SD2020 3D PLANAR SD2220 3D PLANAR SD2420W 3D PluraView

22", 24" and 27", 28"



# New! – Immersive 3D-Stereo in 4K for Professional Applications



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# 3D GlobeView by Schneider Digital

# 3D GlobeView

#### 80" passive 3D-Stereo Monitor

- ✓ UHD-resolution, 8 MP (3.840 x 2.160)
- ✓ Native 4K-Resolution @ 120Hz with 10bit
- Circular line-by-line polarization 3D technology
- ✓ Optional Head-Tracking and gesture control
- Innovative, height-adjustable mounting solution







# **Next Generation of Digital Stereoplotters**



Professional 3D-Hardware

# Complete stereo workplace equipment by Schneider Digital

#### **Photogrammetric Workstations (PW)**



**Workstations** ⇒ tailored to your specific requirements!

- CPUs by Intel or AMD your choice!
- Professional graphic cards by NVIDIA or AMD
- All options for internal storage & network connectivity
- Ultra-compact to full-size workstation tower



**3D Stereo-monitors** 

22" & 24"

27" & 28"









**Stealth 3D-controllers** 









#### Performance-Workstations



Professional 3D-Hardware

#### High-End Workstation-Solutions for professionals



- Latest Intel Xeon, AMD EPYC,
  AMD ThreadRipper processor technology
- High-speed CPU's (up to 56 cores on Intel, up to 96 cores on AMD)
- Up to 2-TB fast DDR-5 ECC memory
- Up to four (4) high-end graphics cards for CUDA or OpenCL applications in a single workstation
- High performance RAID with up to 24-Gb/s. Transfer rate (SAS 4.0 technology) on request also with lightning-fast SSD (Solid State Disks) with up to 96-TB of NVMe disk space per unit
- Optionally ultra-fast 25 or 100-Gbit/s LAN connection to ultra-fast file servers
- Highest quality for all components
- Server and cluster solutions for your requirements!



# **Geospatial Data** – exponential growth of computing requirements

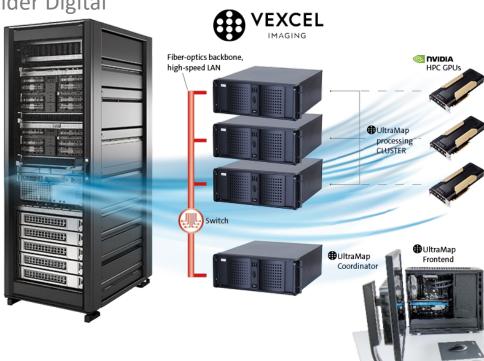


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UltraMap processing equipment by Schneider Digital

#### **UltraMap Processing Clusters**

- Scalable and upgradable processing nodes (each 16 up to 96 CPU cores)
- Each processing node upgradeable with up to 4 HPC GPUs
- Fast UM network switch and corresponding network cards (25 or 100-Gbit/s)
- ✓ Fast File server for UM processing nodes (SSDs)
- ✓ Backup server for longer-term storage (HDDs)





# UltraMap Osprey 4.1: Processing load & storage example

#### Project example: Osprey4.1 flight, AOI 4700 sq.km, 7.5cm nadir resolution

- Approx. 60,000 nadir images, plus 4 x 60,000 oblique images
- ✓ LvI00 nadir+oblique dataset = 3.1-GB on FDU (uncompressed)
  - Lvl03 nadir+oblique RGB, 8bit = 2.5-GB / 150-TB for AOI
  - Lvl03 Nadir-only RGB-I (288MPx), 14bit = 1.6-GB / 100TB for AOI
- ✓ Add multiple products and versions for DTM/DSM, Ortho, 3D mesh 1 PetaByte storage is realistic!
- ✓ Translated to a fast file-server requirement (SSD-based) = 50 to 100-TB (10 to 20 SSD 8-TB drives)
- ✓ Translated to a backup server requirement (HDD-based) = 1-PB (50 to 60 HDD 20-TB drives)
  - Consider RAID-50 or RAID-60 with data redundancy for backup server
  - Consider RAID-0 for higher workloads / high-speed for SSD file-server (>128 UltraMap cores)





### CopyStation / CopyStation PRO mobile Workstation

#### Professionally-built compact workstation for remote area operations

- ✓ Hard-shell trolley, easily transportable
- **CopyStation**: primarily intended to offload/copy FDU to internal NVMe (up to 96-TB internal NVMe)
- CopyStation PRO: adds serious processing capability, e.g. fast LvL00 to Lvl02 (or Lvl03) image copies
  - Up to 64-cores @ 3.5GHz and 1-TB of 3200MHz memory
  - SAS 12Gbit/s port option for external NAS connectivity
  - IPMI remote management onboard
  - Professional Stereo graphics card configurable
  - 270 mm (W) x 212 mm (H) x 393 mm (D)







#### Monthly updated list for stereoscopic software & vendors, current PDF on our website!



# Thank you for your attention!



Josef J. Schneider

# More information online:

www.schneider-digital.com

www.3d-pluraview.com

