schneider digital

Professional 3D-Hardware

Full Service Provider for Professional 4K, 3D and VR-Hardware

- 2D and 3D Stereo 4K Monitors
- Professional Graphics Cards
- High-End Performance Workstations
- Smart VR-Wall for AV / VR and tracking
- Direct LED and multi LCD display walls
- Consulting, Installation and Support

Tailored Solutions for Challenging Requirements

Your Full Service Distributor

for professional 4K, 3D and VR Hardware

„At Schneider Digital, you get the optimum hardware solution for ambitious professional use, with the highest possible system requirements in the areas of 4K, 3D and VR/AR.

With more than 23 years of experience in the professional hardware segment, combined with a portfolio of innovative products from leading manufacturers, we can design a tailor-made solution for you.

Close proximity to our customers, personal consulting and an in-depth support and service philosophy, establish us as a strong solutions-partner. Our team can meet the most complex and ambitious challenges.

We look forward to accepting yours!“

Josef J. Schneider
Founder and owner

Made in Germany - Schneider Digital is the manufacturer of

- the innovative LASER projection system, smart VR-Wall Gen2
- the stereoscopic desktop monitor 3D PluraView
- the HighEnd Workstation Series CENTURON, NEPTURON and PULSARON

Individual consulting, tailor-made products and solutions

- Application-based B2B hardware consulting
- Solution provider for 4K, 3D stereo and VR systems
- Distribution of tracking systems and innovative VR / AR peripherals
- Integration and sale of direct LED and multi LCD display walls
- Wide range of up to 98“ high-resolution 4K monitors
- Distribution, service & support of professional graphics cards
- Distribution of 6-axis 3D controller for object control and Z-mice for 3D measurement

Professional Service & Support - Before, During and After Sales

- Implementation, installation, optimization, customization and on-site service
- Service support and setup-recommendations
- Immediate availability of professional hardware due to wide range of stock
- Ability to borrow and test hardware equipment, 24-hour and overnight-delivery
- Quick, no fuss exchange of hardware in case of warranty claim
- Free hotline and off-site maintenance, hardware drivers updated daily
- Know-how and in-depth knowledge of details due to close collaboration with customers and manufacturers

Our partnership - **Your benefits:**

- The optimum 4K conference room or VR system
- Stronger hardware performance
- Improved software efficiency, optimally adapted hardware
- Minimization of downtimes
- More productive, relaxed operations

Our Product Portfolio

Innovative Solutions for Professional Use

2D, 3D and 4K displays, Virtual Holographic Systems

- 4K displays in 28“, 36“, 46“, 55“, 58“, 65“, 84“ and 98“
- 16:9, 16:10 and ultra wide formats, with part 3D stereo and multitouch capability
- 10 bit color depth including 1.07 billion colors for absolute precision in detail
- zSpace: Interactive VR operations in 3D stereo on your desk
- 3D Pluraview - the reference for passive 3D stereo desktop monitors page 4

Direct LED and LCD multi-screen video walls

- PLANAR Clarity LCD Matrix System DisplayWall:
  Individually configurable (e.g. 5 x 4 displays)
  Optional 3D stereo and multitouch capability
  Varied fields of application: presentations, teamwork, digital signage and more.
  A Plug & Play solution that does not require a Videowall controller
  Direct LED solutions with an external power supply and the
  smallest installation depth on the market page 8

Smart VR-Wall - A Revolution in the 3D Stereo Powerwall-Segment

- Mobile Plug & Play 3D VR-screen
- Projection depth of only 65 cm
- Huge screen – up to 5.30 x 2.25 m
- Resolution up to 4,000 x 1,696 pixels @ 120 Hz
- Pixel-height from 1.3 mm for brilliant sharpness
- Available in 3 formats: 10:9, 16:10 and Cinemascope page 12

3D Controller, Input and Peripheral Devices for VR and AR

- 3D Connexion, SpaceController and Stealth Mouse
  Ideal solution for design engineers, designers
  and architects using 3D-applications
- 3D stereo, polarization and shutter glasses to view stereo-pictures on displays and screens
- ART tracking systems for VR and AR
- Digital Signage control system - Showmaster 9000 page 16

High-End Performance Workstations for VR, DCC and CAx

- Latest Intel Xeon or AMD EPYC processors
- Expandable motherboard platforms for safe investments
- Up to 1TB RAM for maximum performance
- Highly flexible configuration of graphics boards and components
- 19“ Rackmount-capable chassis
- Quiet, high-performance cooling system page 18

Professional Graphics Boards

- 2D and 3D graphics boards
- External 3D graphics solutions, graphics solutions for display walls
- SDI and G-Sync graphics boards, remote and server based graphics solutions
  For ambitious use in CAx, DCC, GIS, Broadcast, FEM, VR, simulations
- Special-purpose graphics board solutions for use in extreme environments,
  e.g. financial institutions, emergency call centres and digital control systems page 21

Monitors and Displays to Meet the Highest Requirements

3D Stereo and 4K Monitors

zSpace Monitor
28“ Virtual Holographic Desktop System

The revolutionary tracking-capable zSpace platform provides a highly realistic 3D experience that includes viewing.

Using a stereoscopic display, 3D tracking glasses, a new type of interactive pin and innovative software platform, objects in zSpace appear “solid” in open space, with full color and high resolution, and can be manipulated directly as if they were real physical objects.

This capability gives users a natural way to navigate, grab, zoom and explore environments like never before.

Highlights

- Stereoscopic 28“ Full HD monitor with high 3D resolution for realistic visualization
- Lightweight passive 3D tracking glasses for viewing comfort
- Full motion parallax, with sensors tracking the viewing angle, enabling the user to look around objects and visualize multiple perspectives with simple head movements
- Uniquely designed stylus for direct and natural interaction with virtual holographic images in 3D space
- Innovative development platform for creating new applications and integrating new input devices
- Direct and natural interaction enabling users to navigate, manipulate and explore models as never before

zSpace®

3D PluraView -
The reference for 3D stereo displays

The innovative 3D PluraView stereo monitor - a future-proof high-end display for flicker-free and high resolution visualization for a perfect 3D stereo experience, even in shifts.

The 3D PluraView from Schneider Digital is the next generation of the PLANAR Beamsplitter series. The innovative, reliable technology is the foundation for precise, pixel-accurate, stereoscopic image evaluation of the highest quality, even in daylight. 3D PluraView Beamsplitter technology delivers full monitor resolution up to 2x 4K / UHD in brilliant brightness, thanks to one display per eye.

This allows the user to work comfortably, without fatigue in all 3D stereo applications. New 3D PluraView BlackTuner technology supports the user in detecting objects even in dark areas. A response time of only 1 ms reduces ghosting and blurring. This is the key to perfect 3D stereo visualization in all professional applications.

Highlights

- The passive 3D stereo display with the highest user acceptance in the market
- Highest resolution - up to 2x 4K / UHD
- Greater viewing angle - Multi-user application
- Maximum brightness - suitable for daylight
- Flicker-free for professional use
- Suitable and certified for many application areas, e.g. GIS / mapping, photogrammetry, oil & gas exploration, molecular research, OP planning, CT observation, design, etc.
- Elegant design & highest quality - made in Germany

3D PluraView

www.3d-pluraview.com

Monitors and Displays to Meet the Highest Requirements

2D 4K large format monitors with touch option

Up to 98“ large format 2D 4K monitors

Professional 4K large format monitors from 65“ are ideal for product and project presentations in smaller groups of between 5-15 people. Thanks to their large viewing angle, which is about 50% greater than standard monitors, all participants experience the same image. In combination with the optional multi-touch version, the display can be used as a whiteboard or for interactive project presentation. Our remote-adjustable monitor stands with rolling casters also offer space for a workstation. With the 90° rotation option, new display options are opened for the user.

PLANAR multi-resource management with phone or tablet app

The PLANAR UltraRes app for iOS or Android controls display functionality and allows users to:

- connect up to 6 content sources
- switch between single, dual, triple, quad, or picture-in-picture (PiP) layouts
- store preset configurations

4K displays produce resolution and picture quality never seen before. With four times the resolution of full HD, all PLANAR ultra HD products deliver amazingly life-like picture quality and an immersive display experience. When displaying ultra HD content, PLANAR 4K displays deliver clarity and detail that appears sharp even at close viewing distances - no detail is missed. With extensive connectivity, PLANAR 4K displays can be used interchangeably with today’s full HD and ultra HD sources and emerging 4K sources coming to the market in the future.

CAPABILITY	PLANAR 4K LCD	CONSUMER TVs
Bezel	Durable, symmetrical design; logo-free	No
Support for extended use	Commercial-grade panel and back-light	No
Landscape/portrait	Both*	Landscape only
Brightness	Up to 500 nit	Ranges from 200-300 nit
Commercial connectivity	Yes	No
Display control	RS-232 and LAN*	No
Multi-source viewing	Yes*	No
OPS slot	Yes*	No
Touch screen	Yes*	No
Warranty	3 years advance replacement	1 year parts and labor

4K Touch-Display – PLANAR UltraRes

With a standard resolution of 3.840 x 2.160, the PLANAR UltraRes has a fourfold higher resolution and pixel density compared to a Full HD display in the same size. Displayed Ultra HD content is sharpened down to the last detail, even when viewing from a short distance. No detail is overlooked.

A single 98 „PLANAR UltraRes display offers the same resolution with a similar image size as can only be achieved with a 2x2 panel 46“ LCD video wall. But without webs in the display area.

Advanced UltraRes display technology leads to a significant improvement in image quality. Qualified users gain full access to the monitor's EDIT-Data, in addition to all color and brightness parameters, as well as resolution and repeating frequency per individual memory-bar input. With features such as 10bit color depth per RGB, local back-light dimming for improved contrast, a 120Hz internal refresh rate and full support for 4K at 60Hz output frequency, the PLANAR UltraRes provides uncompromising image quality that is not achievable with standard displays.

PLANAR
A LEYARD Company

Highlights

- 75”, 86“ and 98” Ultra HD resolution (3.840 x 2.160) LCD displays
- Ideal meeting and / or product presentation monitor
- Supports native 4K at up to 60Hz with HDMI 2.0 and DisplayPort 1.2
- 1.07 trillion colors. Full 10-bit color depth
- Advanced multi-resource control with PLANAR MediaPlex Plus, which supports up to 5 inputs + OPS module (SDI or PC)
- Wireless media control through an app for iOS or Android via tablet or smartphone
- 9 cm flat screen to hang on the wall like a picture
- Optional PLANAR Profile Mounting System ensures the industry's thinnest mounted depth
- Also available as a touch screen model with ERO protective glass

Displaywalls to Meet the Highest Requirements

LCD Multi-Displaywalls

PLANAR Clarity Matrix LCD Video Wall System

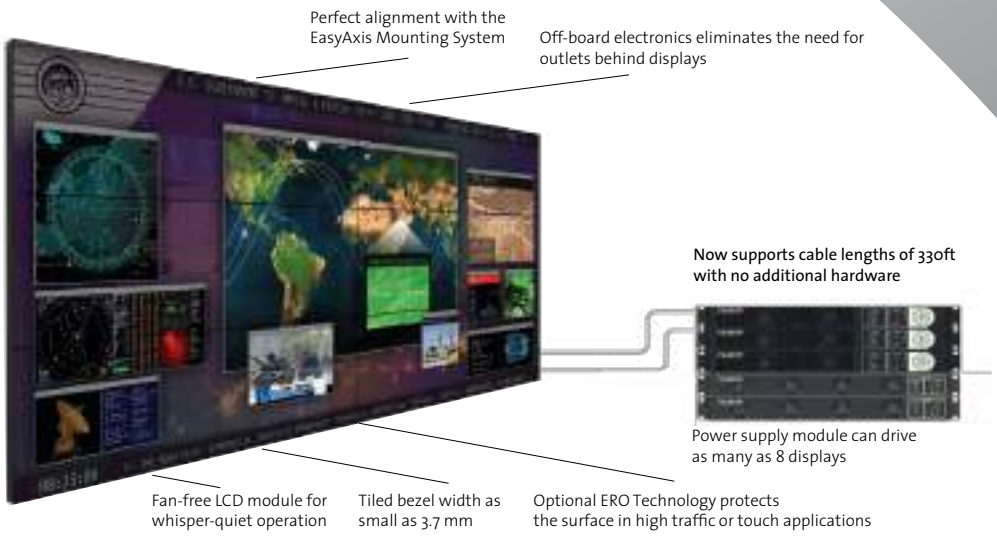
Highlights:

- 4K - 16K Superior multi display function
- Critical application reliability in 24/7 continuous operation
- High brightness and contrast
- Interactive multi-touch and multi-user functions
- Picture-in-picture function
- Media control with APP (iOS), CRESTRON or AMX
- Big-picture processing (built-in scaler)

4K 8K 16K 3D

PLANAR® A LEYARD Company

The Clarity Matrix LCD Video Wall System was developed by the industry's leading display experts to handle the tasks of today's video wall installations: Affixing and array, reliability and extended operation, access to service and maintenance, as well as easy and effective image processing and its management.



4K – Big Picture Plus Processing

Clarity Matrix supports a wide range of processing options to display sources on the video wall. PLANAR's Big Picture Plus processing is built into Clarity Matrix and allows sources to be scaled across the entire video wall or any section. To simplify the set-up of Big Picture Plus, Clarity Matrix has position sensors built into the LCD that determine where it is located within the array and scale sources across the video wall automatically, saving hours of set-up. Big Picture Plus processing also allows ultra-high resolution content, up to 4k, to be spread over multiple displays at native resolution. For more complex configurations, Clarity Matrix supports all leading image processing and digital signage software solutions including PLANAR's Indisys™ and Clarity™ VCS image processing solutions.

Clarity Matrix

- 46" and 55"
- Two brightness levels available
- New 55" model with a tiled bezel width of 3.7 mm

Clarity Matrix with Extended Ruggedness & Optics (ERO™) Technology

- Directly bonded gorilla protective glass for a significantly better viewing angle, contrast and brightness than subsequently installed protective glass, as well as a longer display life due to lower temperature development

Clarity Matrix MultiTouch

- Turn-key modular touch kit that adds interactivity and collaboration
- 32 simultaneous touch points
- Includes PLANAR ERO™ protective glass technology

Clarity Matrix 3D

- Spectacular 2D and 3D viewing experience for professional
- 3D visualization applications
- Flicker-free stereoscopic visualization with passive glasses

Displaywalls to Meet the Highest Requirements

Direct LED-Displaywalls

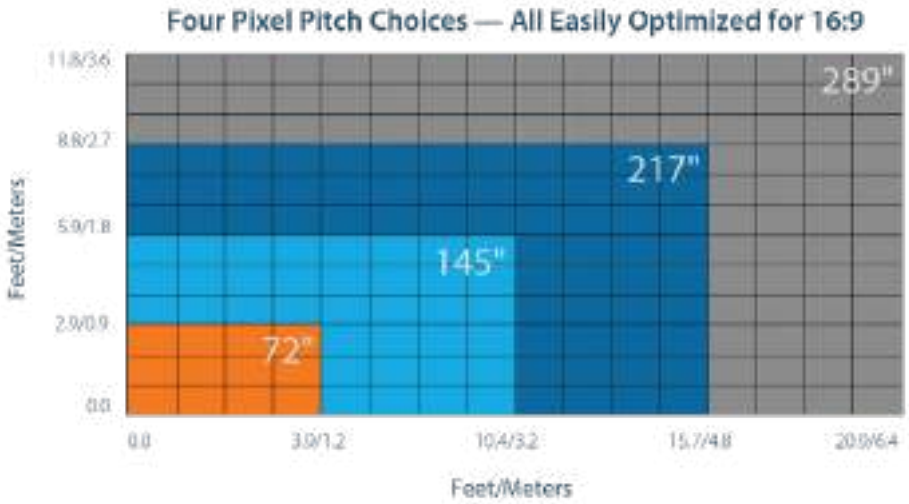
PLANAR DirectLight LED Video Wall System

Highlights:

- Uniform design available in four resolutions with three pixel sizes (0.9, 1.2, 1.5 and 1.8 mm)
- Black resign LEDs and PLANAR MicroGrid Shader for deeper blacks, higher contrast
- Saturated colors and deep blacks improve SCADA visibility
- Supports concave walls thanks to additional mounting system
- DirectWall with 90° angle support
- Remote Power + - Hot-Swop Power Backup
- The flattest system with the smallest installation depth on the market

4K 8K PLANAR A LEYARD Company

The PLANAR® DirectLight™ LED Video Wall can be expanded to a scalable, high-resolution LED display thanks to its seamless modules. By using PLANAR Clarity Video Wall installations that have separate (redundant) Hot-Swop power supply from the display, PLANAR has achieved significant temperature reductions at LED modules, coupled with a reduction in the overall design depth incl. a wall bracket of only 6.7 cm. In addition to unique reliability, the incomparable design allows even 90° corners - an ideal prerequisite for daylight-capable high-end 2D product presentations in a 1: 1 scale, or the most demanding control room and digital signage applications, in almost any size and shape.



Unique Brightness and Visual Performance

PLANAR DirectLight LED video walls are available with pixel sizes of 0.9 to 1.8 mm. They provide a clear, high-contrast image; thanks to their black Resin LEDs and Microgrid PLANAR® Shader™, even the darkest blacks and gray scale can be clearly resolved at the lowest brightness by native 10-bit processing.

- PLANAR DirectLight Control Software allows flexible image adjustment and maintains color temperature and color gradients with 10 bit grade low brightness
- Excellent angle-independent view without (color shifting)
- Maximum reliability - 24 hours / 7 days a week

LASER Smart VR-Wall - 3D stereo and VR / AR in large format

A Revolution in the Power Wall Class with LASER projection

smart VR-Wall - the 3D stereo powerwall

The LASER smart VR-Wall is particularly suitable for mobile presentations at trade fairs, events or on the customer's business premises, due to its modular design and low construction depth. Thanks to its unbeatable price-performance ratio, it is not only interesting for large companies, but also for medium-sized companies. For the first time, it has been possible to develop a powerful powerwall with a depth of only approx. 65 cm. This allows the large-scale, high-resolution display of your data in almost any room. The LASER smart VR-Wall is a unique front projection system, best understood as an over-sized, free-standing monitor. It combines excellent image quality with the advantages of rear projection. Due to the extremely small depth, the user can stand directly in front of the picture without throwing shadows on the screen. Six LASER Light Engines produce a perfect image with a homogeneous brightness of 6 x 3,450 Ansi Lumen. The LASER smart VR-Wall is simply connected to your workstation just like a standard plug-and-play monitor. It provides your 2D and 3D stereo content with 6.8 megapixels and a 120Hz refresh rate in perfect picture quality.

Areas of application:

- Digital prototyping
- Configurator of your POS (at trade fairs and events)
- Presentations
- Conference room system
- CAx (CAD, CAM and CAE)
- Virtual Reality (VR/AR)
- Medical visualizations
- Geoinformatics
- Security center
- Educational applications in universities and schools
- Cinema or high-end video wall
- Design and construction

Highlights:

- Plug-and-Play: Use it like a regular monitor
- Small installation depth and amazing mobility thanks to its modular concept
- Huge screen, up to 6.8 megapixel resolution and pixel size of only 1.3 mm for high image quality
- Sufficient brightness, even in ambient light, still provides a contrasting picture

smart VR-Wall
www.vrwall.com

4K 3D 120Hz

Impressive VR demonstrations –

anytime and anywhere

Image quality remains impressively clear, even from close range

Whether front or rear projection, the first-class stereoscopic image quality makes each 3D demonstration an experience worth seeing. Thanks to 120Hz technology the smart VR wall gen2 can realise 6.8 megapixels per eye in cinemascope format. Stereoscopic image data is displayed with the same full resolution throughout. The stereo effect is achieved by page flipping and shutter viewers.

Pixel size only 1.3 mm

Even more impressive is the small pixel size of only 1.3 mm. This helps you see a sharp image, even if you are standing directly in front of the wall, making even long stretches of work far less tiring for the eyes. All in all, with our new Light Engines, we offer a picture quality that cannot be achieved elsewhere, except by top-level systems costing more than €150,000.

Contrast of 15,000: 1

The new Laser Light Engines stand out with their outstanding contrast value and thus lend structures and surfaces a clearly more detailed appearance.

Up to 12 input sources can be connected simultaneously

The smart VR-Wall unit offers up to 12 plug & play video input ports for VGA, HDMI, Display Port and DVI dual-link signals. This means that all users can view their familiar software applications on the screen of the smart VR-Wall as usual – just in a more impressive visual form.

The smart VR-Wall supports the new Displayport 1.2 generation, with a native resolution of 4K @ 120Hz with only two cables (L & R eye).

Unique features

Unlike conventional power walls and VR caves, the smart VR Wall does not require any building alterations when it is set up. Simply put it where you need it – any office with a standard ceiling height of 2.75m or more will do. With a modular design, it can be transported easily and installed even on the 31st floor in a short time. Therefore, the smart VR-Wall is also ideally suited for mobile stereoscopic presentations at trade fairs, events or on the customer's business premises.

The Schneider Digital

smart VR-Wall

is as easy to use as any other high-resolution monitor. Unlike conventional power walls, no complicated cluster solutions or software modifications for warping, blending or color correction are necessary.

Important facts...

...at a glance

Most advanced LED laser projector-technology: Immediately active, without warm-up times

Extremely compact design - can be integrated into almost any office without building alterations, with a depth of only 65cm

Impressive image quality: Resolution of 2,560 x 1,600 – 4,000 x 1,696 @ 120Hz pixels, luminous intensity and homogeneous light distribution

No shading by the actor, despite brilliant front projection.

Easy to use, thanks to plug-and-play capability – simply plugged in like a standard external monitor (notebook adequate).

Uncomplicated and versatile use, for anything from simple PowerPoint to complex VR applications No data conversions and no cluster software required.

Performance scaling using optional grabber cards possible [up to 12-player etc. (24 graphics cards in SLI / Crossfire mode)]

Up to 12 signal sources (teams) can be displayed simultaneously and are mixable

Co-review as an option for up to two video cameras

Media controller – the optional wireless touch tablet gives you full control over all inputs and functions (split-screen, picture-in-picture...)

Unrestricted representation of stereoscopic content. All common stereo formats are supported, the full resolution of up to 6.8 MP per eye is retained

Live VR interaction with optional, almost invisible tracking system. Low input lag (sub 1 frame) means it is suitable for even flight simulation inputs

Brilliantly sharp picture due to minimal pixel size of only 1.3 mm and very high contrast of 15,000: 1

Available in three formats: 16:9, 16:10 and CinemaScope 23.5:10 Custom sizes available on request (extra charge)

Revolutionary new camera calibration method based on color space for the best possible overall picture, now with more brightness

Sensational value for money: 20,000 hours of lamp life with 8 hours of daily use, 10 years investment security, no expensive cluster software required, low maintenance and repair costs

Future-proof Light Engines can be upgraded to higher resolution/luminous power at any time

Fully flexible and mobile compared to conventional installations. Assembly and conversion time of approx. 3 hours only

New DisplayPort 1.2 support for native resolution currently of 5 x 4K @ 60Hz

VR-Periphery

Tracking Systems and 3D Glasses

Arttrack 5

Trackpack/E

ART VR Tracking Systems

ARTTRACK 5

Consisting of individual intelligent tracking cameras and one central controller with DTrack2 software. Fully scalable from 2 to 50 cameras, up to 45 6DOF targets simultaneously tracked. The current model ARTTRACK5 can be randomly combined with its predecessors ARTTRACK2 and ARTTRACK3, as well as TRACKPACK cameras.

TRACKPACK/E

Available as a 2 to 8 camera version, which can be connected to an ART controller and DTrack2 software. TRACKPACK systems are recommended for medium tracking volumes and can be combined with ARTTRACK5 and ARTTRACK5 / C cameras.

SMARTTRACK

A fully integrated stereo camera system for small tracking volumes. It contains 2 cameras and one controller with DTrack2 software in a compact housing. Tracking up to 4 targets simultaneously.

3D Glasses and Emitter

- Stereo, 3D, polarization and shutter glasses for viewing stereo images on a monitor or screen
- Infrared systems, wireless solutions (radio controlled), and systems with long range emitters

3D Controller for CAD-Software

3D controllers provide a comfortable and natural way to interact with digital content in the world's most popular CAD and creative applications, making it easier to focus on your task rather than interacting with your software.

It takes care of positioning your model or view and provides access to your favourite application commands, freeing up your normal mouse to do what it was designed for – moving the cursor to select, edit and create. Not only does this balanced and co-operative work style simply feel good, it enhances comfort by reducing mouse use and increases productivity. If you use more than one 3D application, you don't need to adjust to different navigation methods as you switch between them.

3D Connexion

The 3D Connexion Controller has its origins in robotics and space science. CAD 3D controllers are now also available in a wireless version to meet the requirements of engineers, designers and architects using 3D applications.

SpaceController

The SpaceController allows rotation around each axis so that you have six degrees of freedom - under your control. The SpaceController is the ideal input device for CAD construction.

Photogrammetry-Measuring Devices

The Stealth Mouse with a high-resolution Z-wheel, 10 programmable Swiss-made function buttons, and service life of at least 25 million clicks, is ideally suited for measuring in 3D stereoscopics and photogrammetry.

Performance Workstations

High-End PCs

CAx requires the highest workstation performance across the entire workflow

The challenge for all CAx applications is to create a fault-free, liquid and high-resolution 3D representation. Only when all hardware components have the appropriate capacity and specialization is it possible to work quickly and without problems. But the whole performance has to be really available and all components have to work together perfectly.

The performance of the graphics card can not be exploited if the graphics driver misinterprets the CAx software. And that is precisely the difference between Schneider Digital and any supplier: We know all the leading CAD, CAM and CAE applications and optimize the configuration of our systems exactly to your requirements.

High-End Solutions for Complex Requirements

- Specially designed components focus on the requirements of the professional user
- Use of top-notch quality components
- Optimal graphics cards for seamless display
- Up to 4 High-End graphics cards for CUDA or Open-CL in one workstation
- 19" Rackmount capable
- Optional Framelock / G-Sync for Powerwall
- Highest clock speed of processors (up to 2x 32 cores at AMD EPYC, up 2x 2 cores on Intel platform)
- Up to 2 TB main memory
- State-of-the-art PCI-E M.2 SSD system hard drive
- High performance RAID with a transfer rate of up to 12 GB/sec (SATA-III- and SAS-Technology), super fast SSD on request (Solid State Disks)
- Optional ultra fast 10-GBit-LAN for file server connection
- Server and Cluster solutions are also available
- Upgrades solely via processor replacement; until at least 2014, thus protecting your investment

Thanks to additional sound insulation and special cooling solutions, our workstations are also pleasant „office companions".

NEPTURON PCs for CAM and HMD (VR) a high-speed, water-cooled workstation

The areas of application and aim of NEPTURON workstations designed by Schneider Digital, are applications that rely on maximum CPU clock speed and / or maximum frame rates. This helps e.g. CAM to shorten calculation times. HMD and VR users can view larger or more detailed scenes with the required 90 frame liquid.

All components of the NEPTURON series meet requirements with regard to maximum stability and the highest possible CPU clock speed. Our highly efficient water cooling system allows you to keep sound levels low on the CENTURON and PULSARON workstations series.

CENTURON and PULSARON high-end performance workstations

Schneider Digital has specialized in tailor-made hardware solutions for professional 3D graphics applications since 1995. Our focus is on the concept of upgradable high-end performance workstations, which are characterized by flexible upgrade options and thus provide investment security. For future performance upgrades, it is sufficient to simply replace the processor. The need for new installations and the use of new motherboards is completely eliminated.

Through collaboration with leading hardware manufacturers, software companies and independent research institutes, we are at the forefront of the latest developments. Just as valuable is our close contacts with a diverse range of users. This is how workstation solutions are developed for practical use.

All devices are equipped with the latest Intel Xeon or AMD EPYC processors.

Digital Signage Control System

Displaywall Manager

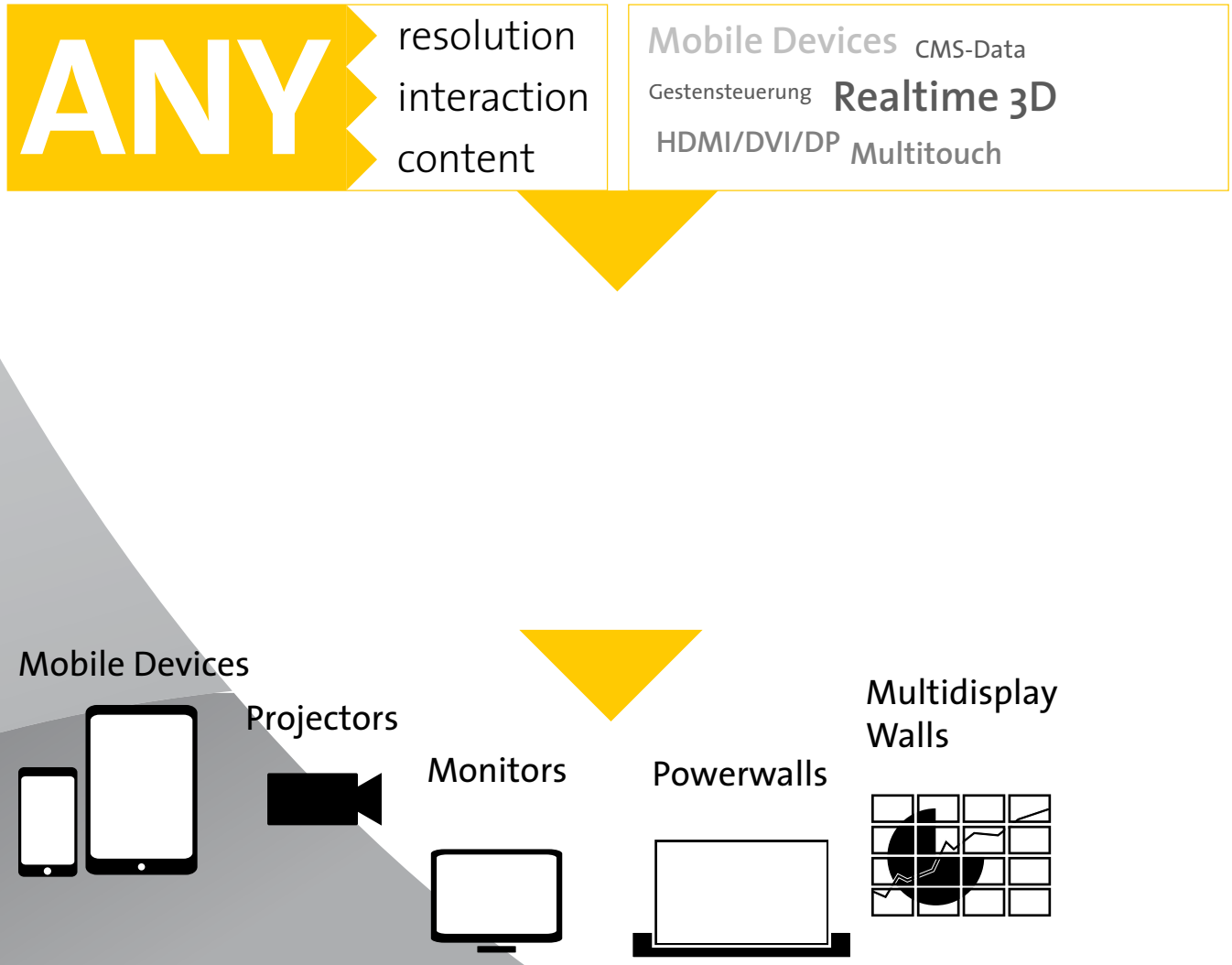
SHOWMASTER 9000

SHOWMASTER 9000 is the universal system for all your presentation and showroom needs. The SHOWMASTER framework enables the integration of almost any SDK. This allows all requirements for interaction through gestures, tracking objects and people with live or pre-prepared content to be implemented. The system is tailored to your precise requirements concerning inputs, connection, interactions and outputs. Depending on your project scale, it can be a single machine or cluster of several machines with storage and a Content Management system. It can be a standalone system or it can be seamlessly integrated into your environment. The SHOWMASTER 9000 supports the new Displayport 1.2 generation, with a native resolution of 6x 4K @ 60Hz.

Highlights

- Gesture recognition
- Interactive media selection
- Plug & Play multi-channel control
- Channel selection at the push of a button
- Perfect VR/AR with tracking and pressure sensor detection

SHOWMASTER 9000



Professional Graphics Cards

High-End 3D Graphics Cards

Professional 3D Graphics Cards

Nvidia Quadro, AMD FirePRO and RadeonPRO

Schneider Digital offers the ultimate High-End 3D graphics cards Nvidia Quadro and the AMD FirePRO 3D series for exacting use in the areas of CAD/CAM/CAE, DCC, GIS, Broadcast, FEM, Virtual Reality and simulation. They offer the following features:

- Manufacturer certification of AMD and Nvidia guaranteed on many software applicationst highest performance with maximum stability.
- Advance replacement in case of defective professional graphics cards and extended warranty for up to 10 years (AMD RadeonPRO WX-Series)
- Maximum graphics memory available - up to 2 Terabytes (RadeonPRO SSG) highest graphics memory available for maximum reserve of memory resources and graphic display and faster charging
- Up to 6 screens can be connected to a graphics card with Vulkan, OpenGL and OpenCL support
- NVIDIA® NVLink ™ is a high-bandwidth, high-performance connection that allows fast communication between the CPU and graphics processor and between multiple graphics processors. This technology allows data sharing at 5 to 12 times high transfer rates than the conventional PCIe Gen3. This leads to an enormous increase in application performance and a new type of flexible high-density in accelerated computing.

AMD RadeonPRO SSG

AMD RadeonPRO WX9100

Nvidia Quadro GP100 and Nvidia NV Link Bridge

The right Graphics Card for every Application - we will take care of it for you, guaranteed!

We can assist you in the selection of the perfect graphics card for your needs

Professional know-how gained through many years of experience and strong contacts with manufacturers

We are here for you if you need support at any time before or after your purchase

Professional Graphics Cards

High-End 2D Graphics Cards

Professional 2D Graphics Cards

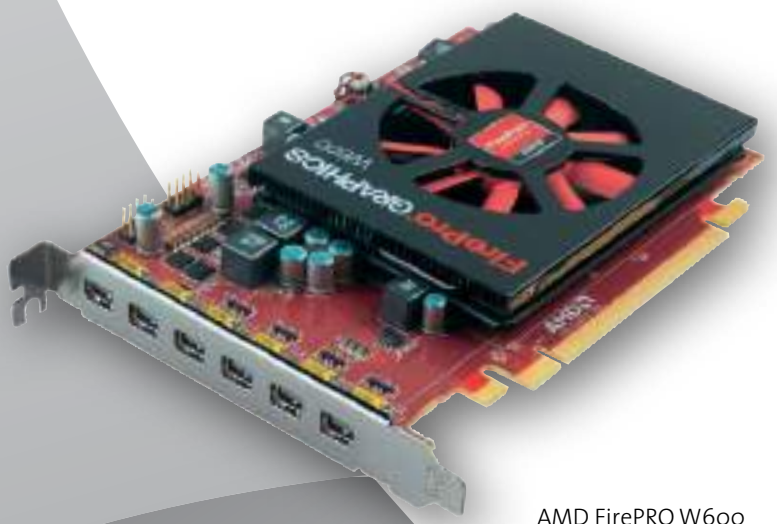
Nvidia NVS and AMD FirePRO MV

Nvidia NVS and AMD FirePRO MV series 2D professional graphics solutions are standard for PC graphics at companies. They deliver graphics performance for configurations with one or more screens and are therefore highly suitable for diverse environments, e.g. financial institutions, emergency call centers, digital control systems and other critical areas. Key Features of Professional 2D Graphics Cards:

- Small installation size, thus little space requirement
- Low power consumption and heat development
- Extremely quiet operation thanks to passive cooling
- Suitable for multi-screen systems
- Long product lifecycle

Nvidia NVS 450

AMD FirePRO 2460



AMD FirePRO W600

Professional 2D graphics cards for monitor walls

AMD FirePRO W600

Professional 2D graphics cards for display and film walls feature high performance and high resolution as well as the dedicated characteristics and functions necessary for the configuration of interactive and visually stunning multi-display monitors and walls. Their field of application is very versatile and covers areas such as public video walls, surveillance and control centers, maintenance facilities or even stock exchanges. Important Key Features are:

- Graphics card slots for up to six displays or projectors
- Mapping support: for up to six projectors for seamless projection
- Display port 1.2 support enables multi stream audio power

Professional Graphics Cards

Graphics Cards Special Solutions

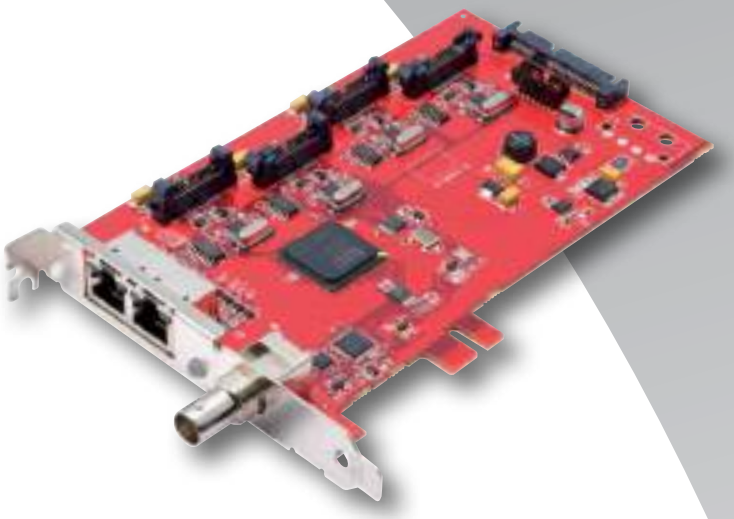
G-Sync Solutions

Nvidia Quatro Sync and AMD G-Sync Option Card

For use with G-Sync Graphics Cards; there are basically two areas of application:

On one hand G-Sync solutions are used for synchronizing studio equipment and hardware applications. On the other, frame lock allows display channels from multiple workstations to be synchronized, thus creating one large "virtual display" that can be driven by a multi-system cluster for performance scalability. Functions and Advantages of G-Sync Graphics Cards:

- Supports up to four GPUs per internal module
- Ability to sync as many computers (cluster) as you want externally, also for big Powerwall installations
- Complete hardware synchronization
- Supports connection of several computers and your GPUs
- Synchronization with just about any video source



G-Sync Option Card AMD FirePRO S400

Nvidia Quadro Sync II

Professional Graphics Cards

Graphics Cards Special Solutions

Server solutions and Remote Graphics / VDI

AMD FirePRO R5000, S7150 x2 and Nvidia Tesla M60

Modern Virtual Desktop Integration (VDI) now allows administrators to easily provide operating system updates, security patches and service packs for various applications to a large number of users, since all required changes need to only be performed on a VM installation (operating system). Intelligent backup software can be used to quickly and safely create disaster recovery strategies.

With powerful CITRIX / VMware and Hyper-V enabled OpenGL professional graphics cards on the market, such VDI servers are also more and more interesting for CAD users. Up to 32 simultaneous OpenGL users are now possible with only one AMD FirePRO S-Series or comparable nVIDIA TESLA / GRID card. Typical CAD applications for VDI servers are used by design engineers to process small to medium assemblies in SolidWorks, INVENTOR, CREO Siemes NX, and similar programs.

Modern thin-client devices enable use in 2-screen operation with up to 2x 4K resolution!

AMD FirePRO R5000

AMD FirePRO S7150 x2

Nvidia Tesla M60

High Performance Computing (HPC)

AMD Radeon INSTINKT Mi25 and Nvidia Tesla P100

With HPC servers, statistical life-expectancy calculations are just as possible as predicting the impact of an explosion or virtual crash test. In the course of autonomous driving, the extensive learning skills of these servers are becoming increasingly important. Since high computing power must be provided at the same time by different (car drivers). HPC servers are also ideally suited to calculating CGI image and video content in the highest resolutions.

Modern high-performance computing solutions today consist almost entirely of a combination of CPUs and GPUs. In high-performance HPC servers, graphics cards serve as relatively favorable line accelerators with an excellent watt / performance indicator. Current GPUs are capable of adapting their calculation accuracy from 16 to 128-bit floating-point precision, depending on the user's requirements or the software used, and deliver reliable results in conjunction with their built-in error correcting code memories (ECC-RAM).

AMD Radeon INSTINKT Mi25

Nvidia Tesla P100

Areas of Application for Schneider Digital Solutions

4K, 3D and VR Solutions

Applications and industries:

- Geoinformatics
- Oil and gas exploration
- Process Control
- Conference room system
- CAx (CAD, CAM and CAE)
- Medical visualizations
- Architecture
- Science and research
- Security center
- Digital Signage
- Control room
- Financial Decision Room

More Service for Greater Productivity

Turn your hardware investment into a professional solution

Specialization

When designing our 4K, 3D and VR solutions, we focus exclusively on the requirements of the professional market. Maximum performance, high operating stability, as well as outstanding ergonomic properties are the result.

Detailed Knowledge

Our in-depth knowledge enables us to pick the right, strongest and most powerful graphics card for just about any professional graphics application. We configure our customers' workstations in the same way – tailored to our customers' requirements and applications in use. We don't rely on benchmark tests but on empirically obtained results!

Excellent Business Relations

We strive for long lasting business relationships with our customers. Our entire service is designed to be there for our customers. We are personally available to assist you in a competent and timely manner during regular business hours, and immediately help you in case of problems or difficulties. We have strong ties with the development departments of our manufacturers, as well as the manufacturers of our most important software applications.

More than 23 years of experience with high-end hardware

Schneider Digital was founded by Josef J. Schneider in 1995; the Schneider Digital Head Office is located in Miesbach, Germany. Schneider Digital specializes in the production and distribution of tailor-made professional graphics cards, workstations and servers and is a full service provider for professional 4K, 3D and VR solutions offering special solutions for graphics-intensive computer applications, such as Geo-Information, CAx, architecture, science, medicine, animation, film/TV, digital imaging, design and CG.

Our Business Philosophy

We strive to assist and support our customers in their daily business, resulting in long-term lasting partnerships. Maximum customer satisfaction with fast non-bureaucratic service is our main goal. Our products are up-to-date thanks to close cooperation with numerous hardware manufacturers, software developers and independent research institutes. With innovative technology, we're able to show you where the trends of the future are heading today. Up-to-date know-how in an ever-changing market is our highest competence and the most important investment for our customers.

Selection of Current Clients

Schneider Digital has been well known across Europe for many years.
We would like to sincerely thank our customers for their trust and professional feedback:

SYSTEM INTEGRATION: Wortmann, Aquado, Extra Computer, Pyramid, NTSI
SOFTWARE MANUFACTURER: Tebis, Megacad, Open Mind, Intergraph, Nemetschek
SYSTEM HOUSE: Bechtle, Cancom, ACP, T-Systems, SWS Computersysteme
HIGH-END USERS: Allianz, AUDI, BMW, Daimler, Honda, VW, Arthrex, DLR, Max-Planck-Institute, Fraunhofer-Institute
UNIVERSITIES AND COLLEGES: Universität Chemnitz, TUM München, Bauhaus-Universität Weimar, TU Clausthal, Ohm Hochschule Nürnberg, FH Rosenheim, HS Reutlingen uvm.

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