schneider digital

Professionelle 3D-Hardware

LASER smart VR wall

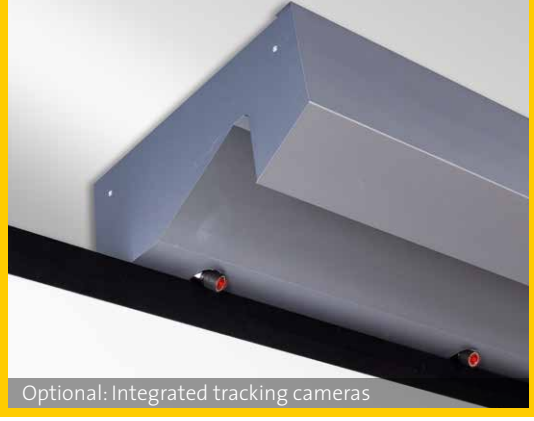
with high resolution 3D stereo

- Cutting-edge laser projection technology for a service life of more than 10 years
- 38% more brightness compared with predecessor
- 650% increase in contrast compared with predecessor (15000:1)
- 120 Hz technology with full 4K resolution even in 3D stereo

New generation LASER smart VR-wall | with high resolution 3D stereo


Only 65 cm installation depth


Camera-based colour space calibration


Optional: Integrated tracking cameras

LASER smart VR wall Highlights

- LASER service life at max. brightness is 10 years (frequency of use 5 x 8h per week)
- 650% increase in contrast compared with predecessor (15000:1)
- 38% more brightness compared with predecessor: Small cinemascope model has 6 x 3450 ANSI lumen brightness
- Maximum usable total resolution of 4000 x 2000 pixels, 120 Hz technology with full 4K resolution even in 3D stereo
- Small pixel size of just 1.3 mm for a high-resolution picture with perfectly even light distribution without hot spots
- Revolutionary, camera-based colour space calibration for the best possible homogenous picture - allows use of the full colour space, even in 3D stereo mode with no loss of quality in the glare zones
- 60 Hz refresh rate and latency < 20 ms for a smooth image/video motion and VR/AR interaction
- Minimal space requirement with just a 65 cm installation depth due to the compact design. With an installation height of 273 cm, it can be integrated into any office space without the need for conversion work
- Projection virtually level with the floor: First pixel on bottom edge is 350 mm above the floor
- Brilliant front projection, no shadows cast by the presenter in front of the VR wall, unrestricted work and viewing up to directly in front of the screen.

New generation LASER smart VR-wall | with high resolution 3D stereo

Intelligent pixel processor technology

Picture-in-Picture (PiP) mode from several playback devices


Upgradable LASER light sources

LASER smart VR wall – next generation
Laser power wall with high-resolution 3D stereo

High-resolution visualisation for a perfect VR/AR experience

The Generation 2 LASER smart VR wall is the advanced replacement for the successful smart VR wall from Schneider Digital. With cutting-edge laser projection and innovative, patented pixel processing technology, as well as camera-based colour space calibration, it's the new benchmark in the field of mobile Powerwalls with front projection.

Highly compatible with numerous configuration options

- Tracking certification of ART, VICON & WorldVIZ for professional VR/AR interaction

ART Advanced Realtime Tracking · VICON · worldviz where virtual becomes reality

- Plug & play support for all standard 2D and 3D applications (Linux, Macintosh, Windows, clusters, games consoles ...)
- Software certification by Autodesk, Dassault, ESI, Siemens, etc.

AUTODESK · DASSAULT SYSTEMES · esi · SIEMENS

- Available in three formats: 16:9, 16:10 and CinemaScope 23.5:10, also available in customized sizes
- Picture size (WxH): 4.80 m x 2.00 m with standard external dimensions of (WxHxD) of 4.96 x 2.73 x 0.65 m
- Any type of rear projection as well as L-benches or 3-5 sided VR CAVES can be realised with the VR wall technology

Future-proof and guaranteed ROI

- Scalable cross-platform plug & play DisplayPort 1.2 monitor interface, supports all standard 2D and 3D applications
- Performance scaling by simultaneous cluster feed to up to 12 work stations. No cluster software costs.
- Projector scaling and stacking is also covered by the pixel processor technology: Many inputs to many projectors or one input to many projectors and vice versa
- Upgradable LASER light sources for maximum ROI and future-proofing
- Excellent cost-benefit ratio: In the purchase price alone, the complete smart VR wall is more cost-effective than comparable single projectors for rear projection systems
- No additional costs for objectives, projection screens, air climate control system, or conversion and architects' planning costs. Very low maintenance and subsequent costs thanks to the laser technology

International testimonials

- DLR Weßling (software in-house development)
- VW Argentina (design)
- LG-VANS South Korea (design)
- DAELIM Motors South Korea (design)
- Honda Thailand (CATIA + IC:IDO)
- AUDI China (IC:IDO)
- Daimler Böblingen (design)
- Daimler China (design)
- Audi Ingolstadt (IC:IDO)
- ASML Netherlands (Siemens NX)
- Johnson & Johnson Belgium (Chemical Visualization)
- Zurich University of Applied Sciences (ZHAW) (CATIA)
- Vienna University of Technology (Siemens NX)
- Technical University of Munich (UNITY)
- Bochum University of Applied Sciences (CATIA, SolidWorks, VRED)

Patented technology and exceptional quality

Internationally patented German technology:
Pixel Processing Pat. no. 1020120024428
High performance calibration
Pat.no. 102013011954

The ultimate in software, hardware and processing quality: Designed, Engineered and Made in Germany

Maximum user comfort and user friendliness

- Touch media controller on tablet PC for user-friendly wireless operation even for inexperienced users, and convenient use of all VR wall functions (picture in picture, SplitScreen, ...)
- Minimal playback hardware requirement for 4K mono mode, just one work station laptop with a single output will suffice
- Simultaneous use of 3 teams (signal sources). Monitor interface extension for up to 12 work stations
- Standalone roller-mounted VR system for maximum mobility, flexibility and quick conversion Set-up and changeover times of approx. 1 day.
- Co-review (interactive video conference) feature available as an option for up to 2 video cameras
- Lower noise thanks to cutting-edge laser projector technology

LASER SMART VR-WALL - TECHNICAL DATA				
	16:9	**16:10**	**Cinemascopic 305**	**Cinemascopic 275**
Gross resolution	2.560 x 1.600 pixels		3.840 x 1.600 pixels	
Adjustable max. DisplayPort EDID	2.624 x 1.476 pixels*	2.560 x 1.600 pixels	4.000 x 1.696 pixels*	
Usable resolution	3,87 megapixels	4,1 megapixels	6,8 megapixels	
Display area	3,53 m x 1,98 m	3,53 m x 2,20 m	5,30 m x 2,25 m	4,80 m x 2,00 m
Dimensions (WxHxD)	3,69 x 2,81 x 0,68	3,69 x 3,03 x 0,68	5,46 x 3,03 x 0,68	4,96 x 2,73 x 0,65
Distance of projection screen from a wall	9 cm			
Pixel size	1,5 mm			1,3 mm
Colour depth	8-bit/RGB			
Stereo technology	Front projection			
Projection	Front projection (rear projection also available as an option)			
Projection material	**Front projection:** vibration-damping flexible foil screen			
Brightness (total)	4 x 3.450 ANSI lumen		6 x 3.450 ANSI lumen	
Viewing angle	+- 85°			
Brightness factor	approx. 1.0			
Light source	Single Chip DLP Engine customized by 3DInsight DLP 1.280 x 800 @ 120 Hz			
Number of light engines	4		6	
Lamp type/service life	LASER, ~ 20,000 hours ≙ ~ 10 years (frequency of use 5 x 8h per week)			
Calibration	Automatically camera-based			
Optional: Additional Video inputs for the media controller	12 x DVI single link or VGA 12 x HDMI 1.3 5 x DisplayPort 1.2		12 x DVI single link or VGA 12 x HDMI 1.3 5 x DisplayPort 1.2	
Power consumption	2.200 Watt		2.900 Watt	
Weight approx.	380 kg	395 kg	approx. 495 kg	approx. 445 kg

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