



wings platinum 4

wings vioso

mediaengine

Live Shows  
Concerts  
Theater  
Opera Houses  
Trade Shows  
Architectural  
Museums Exhibitions  
Theme Parks



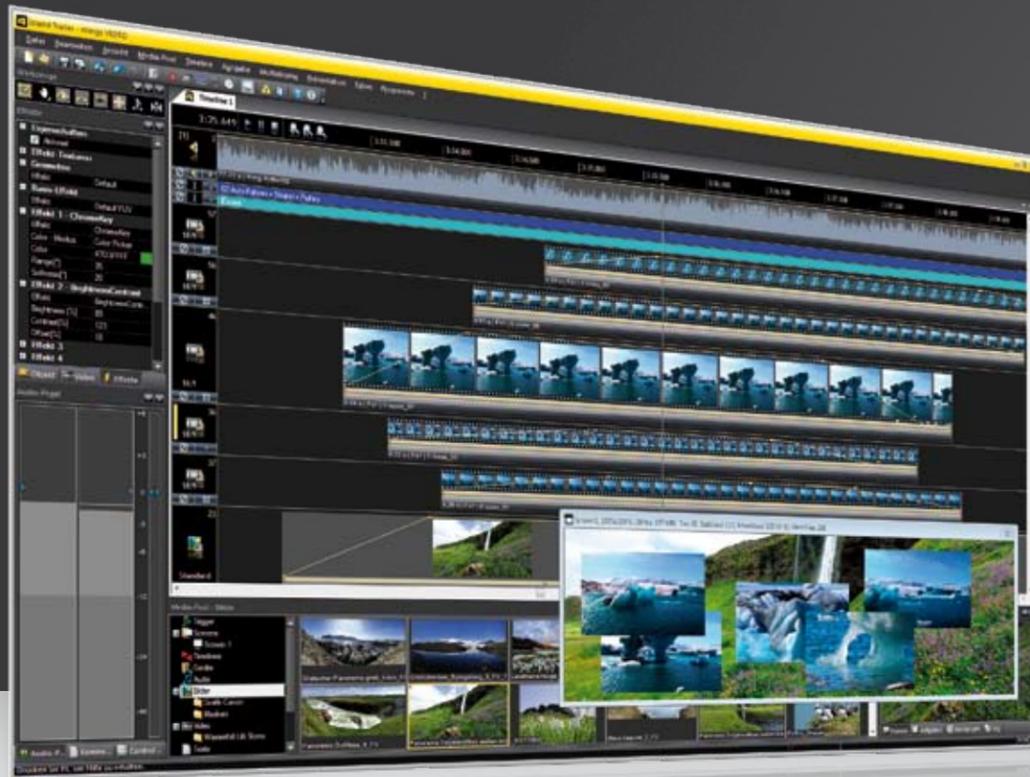
# Wings Platinum

It's all about **Show!**

## Multimedia Production System and Multidisplay Media Server

Wings Platinum is the most advanced multidisplay production and media server system on the market today and is acknowledged all over the world for its wide range of functions and high performance in presenting incredible shows.

With its unique cutting edge media server functions Wings has been part of the most spectacular shows, exciting installations and astonishing presentations worldwide.



Passion for big images!  
Enjoying creativity!

Wings Platinum was born ten years ago out of the passion of wanting to communicate visual messages in high quality. 35 years of experience and know-how led to the development of a system which combines creativity during production with performance and flexibility in presentation in a unique manner.

An integrated system was wanted, starting with video and audio editing via live presentation and show control up to the simple distribution of the work. Anyone should have been able to produce a magnificent show - knowledge acquired was to be used again -no necessity to learn to operate a new system. Playing of a show in full quality at any time without any tedious preparation is always a prime goal during the development of Wings Platinum. Picture quality always has to reach the maximum possible quality automatically - without compromises. The size of the projection, the shape of the projection surface, the arrangement of the display, the effect devices used - none of these should be subject to any restrictions.

Wings Platinum turns these wishes into reality in a unique manner and offers you an unparalleled tool.

Let yourself be inspired!

# Showcase

## Fields of Application

### Live Shows and Concerts

High performance, Full HD live video integration and camera-based calibration make Wings Platinum a perfect system for live shows and concerts. Use real time effects for unique compositions. Scenes may be pre-programmed and may still be altered individually at any time.



Janet Jackson live at Essence Music Festival (Louisiana Superdome New Orleans, LA) - VIOSO and XL Video USA



Ivete Sangalo live (New York) - VIOSO and XL Video USA



Excalibur - The Celtic Rock Opera (Germany tour) - P2 Veranstaltungstechnik

### Theater and Opera Houses

The set can be generated quickly via camera calibration using a media server with up to four outputs. Existing content cannot just be rendered but also produced in Wings Platinum. Flexible adaptation during rehearsals without the need of rendering opens up a new kind of flexibility.



War and Peace, Burgtheater (Vienna, AT) - Fuss AV



Opening of the Bregenz Festival (Bregenz, AT) - Ton+Bild Medientechnik GmbH

### Corporate Presentations

Professional large-scale presentations with animated background, Full HD live video, PowerPoint presentations via DVI/HDMI capture and Show Control for lighting and effects open up completely new opportunities. Changes to the show can be done easily thanks to the integrated editing.



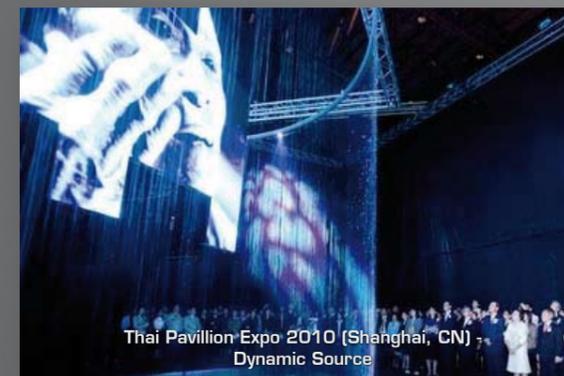
First A380 hand-over to Emirates (Hamburg, DE) - tst Berlin



Tupperware Jubilee Event (Vienna, AT) - RS Event Production

### Exhibitions and Trade Shows

The opportunity to mix display technologies such as LCD, plasma, projection and LED in one single project combined with control via interactive ISEO touch panel systems make Wings Platinum one of the most popular systems for trade show applications.



Thai Pavilion-Expo 2010 (Shanghai, CN) - Dynamic Source



Multimedia cinema Musterring furniture fair (Rietberg, DE) - QuattroVision

# Showcase

## Fields of Application

### Architectural and Facade Projections

The simple production of shows and camera based measurements which take the structure and coloring of the building into account make Wings Platinum the first choice for large-scale productions.



Facade projection Watercastle Parz (Grieskirchen, AT) - Visionas



Spacing (Muenster, DE) - Urbanscreen



Gigantic projection (35 x 100 meter) at the cooling tower of a power plant (Datteln, DE) - VIOSO and publitec

### Digital Signage and Retail Stores

Grid walls with up to 12 displays from one MediaEngine are a speciality of Digital Signage installations. Interactivity is realized by combining Wings Platinum with ISEO touch panels.



Signage wall with 40 Seamless Plasma Displays (Orlando, FL) - Salitek

### Museums and Science Centers

Combine visual components with up to 24-channel audio for multi-language systems together with Show Control elements for a vibrant and unforgettable presentation.



Interactive 360° projection of alpine panoramas (Landesmuseum Schwyz, CH) - Softedge Production

### Theme Parks and Visitor Attractions

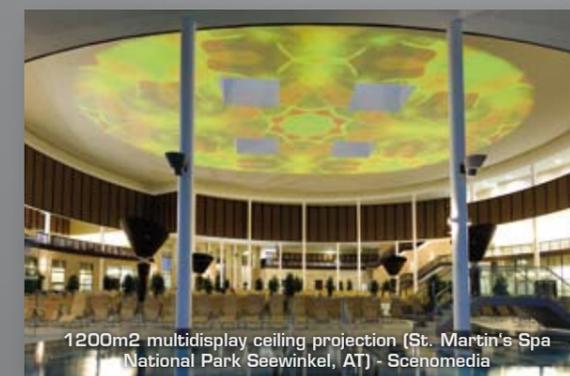
Interactivity in 3D multidisplay motion-ride cinemas with realtime controlled visual effects as well as the complete control of stage shows and firework displays are a speciality of Wings Platinum.



Dollywood River Battle Ride (Pigeon Forge, TN) - LifeFormations

### Restaurants, Casinos and Leisure

Bring theme restaurants, casinos and leisure facilities to life and combine Show Control with LCD displays, LED curtains and projections.



1200m2 multidisplay ceiling projection (St. Martin's Spa National Park Seewinkel, AT) - Scenomedia

# What's all about?

It's all about **Show!**

## **Compose!** It's all about **Production** Page 10

Wings Platinum is a video and audio editing system beyond Full HD and even 4k quality.

## **Present!** It's all about **Presentation** Page 12

The entire show can be played back immediately in realtime on any number of displays including Full HD live video feeds and 24 channel audio.

## **Maximize!** It's all about **Multidisplay** Page 14

Use any number of displays or projectors and turn them into a huge stunning seamless multidisplay experience of astonishing quality.

## **Shape!** It's all about **Warping** Page 16

Using any projection surface imaginable has never been easier.

## Multimedia Production System and Multidisplay Media Server

Many things you can't do with a conventional media server are possible with Wings. Wings is more than just a media server!

## **Calibrate!** It's all about **VIOSO** Page 18

Camera based calibration with automatic warping and matching allows projection on exceptional surfaces without deformation and discoloration.

## **Control!** It's all about **Show Control** Page 20

Use virtually any kind of hardware input and output to generate a unique overall experience.

## **Share!** It's all about **Rendering** Page 22

The presentation can be rendered at any time far beyond Full HD quality for easy distribution or Internet upload.

## **Play!** It's all about **Media Servers** Page 24

The MediaEngine is a highly powerful media server with selected components for realtime processing of high-resolution content on up to four outputs.

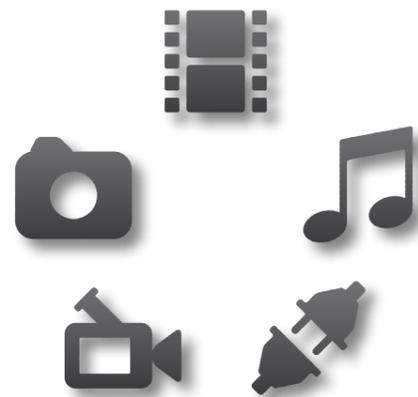
# Compose!

It's all about Production

Wings Platinum is a video and audio editing system beyond Full HD and even 4k quality.

## Media Integration

The strength of Wings Platinum lies in media integration in combination with exceptionally simple and intuitive operation. Wings Platinum lets you arrange and edit any type of media on a timeline with an unlimited number of layers. Take any standard image, video, sound, live video and show control element and merge them easily in Wings Platinum into a unique show of stunning quality.



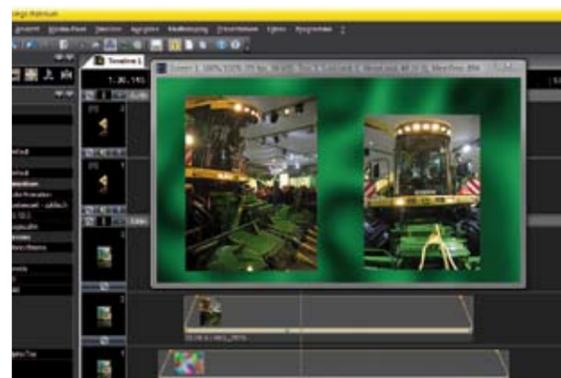
## Get there fast

By using editing concepts similar to standard audio and video editing and compositing applications it is easy to realize the desired result in Wings Platinum without the need for extensive training.



## Unique Effects

Thanks to a vast number of creative realtime effects both for audio as well as for image and video you can create unparalleled compositions.



## WYSIWYG

What You See Is What You Get! The production computer constantly displays the entire multidisplay screen containing all media servers with all display outputs and even without the presentation network being available. Therefore a huge show can be produced in the studio where the presentation servers don't have to be connected.



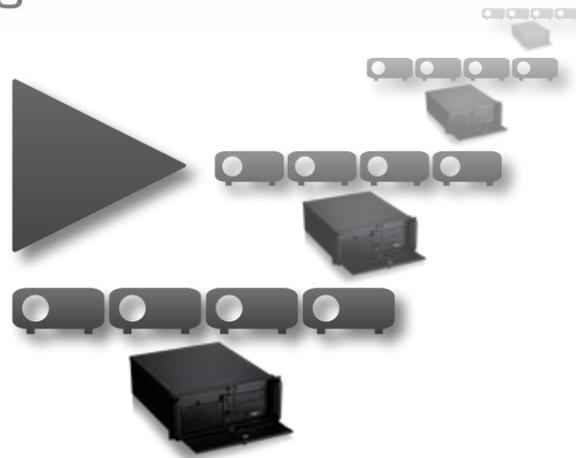
# Present!

It's all about Presentation

The entire show can be played back immediately in realtime on any number of displays including Full HD live video feeds and 24 channel audio.

## Full Quality at any Time

Wings Platinum can play back the entire show content immediately in realtime at full quality on any number of network synchronized media servers with up to four display outputs each. Each output supports resolutions beyond Full HD. This realtime rendering allows immediate and last minute changes.



## Flexible

The image and video data necessary for the performance are automatically generated in the correct resolution by Wings Platinum which has its own video format optimized for live presentations. This way a multidisplay show can be presented without a media server but for example from a production notebook to a projector or LCD for a customer preview.



## High-end Audio

12 stereo audio channels, mixed via crossbar switch from any number of audio layers and furnished with realtime audio effects via VST Plugins turn your show into a unique experience.



## Live

For a smooth combination between a live show and a superbly composed presentation Wings Platinum provides the perfect support. Full HD live video inputs, pace and flow control of the presentation, free running audio and video playback for background music or backdrops ensure a successful live act.



Full HD live video inserts in a concert

# Maximize!

It's all about **Multidisplay**

Use any number of displays or projectors and turn them into a huge stunning seamless multidisplay experience of astonishing quality.

## Scalable

To achieve scalability Wings Platinum uses a presentation network with any number of media servers for realtime projection of multidisplay presentations – with up to four display outputs per media server.



## In Sync

During presentation the integrated SmartSync-Engine ensures a frame-accurate playback between all media servers thus providing an unparalleled experience.



## Automatic

The distribution of the media files to the presentation servers is done automatically in background. It is ensured that the correct data are made available to each media server.



## Any Number

Any number of displays of various resolutions, technologies and sizes may be arranged freely. Different pixel densities and aspect ratios as well as paths from LCD or plasma displays are taken into account.



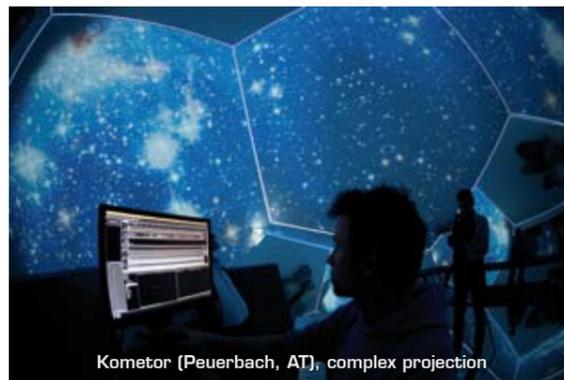
# Shape!

It's all about **Warping**

Using any projection surface imaginable has never been easier.

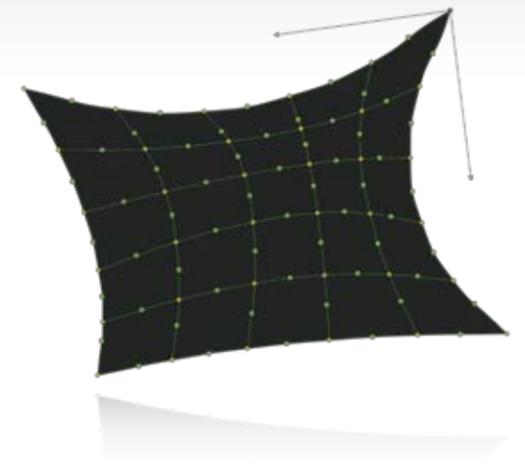
## On any Surface

The innovative warping concept allows individual adjustment of the displays in real time to ensure that your presentation fits on any projection surface imaginable.



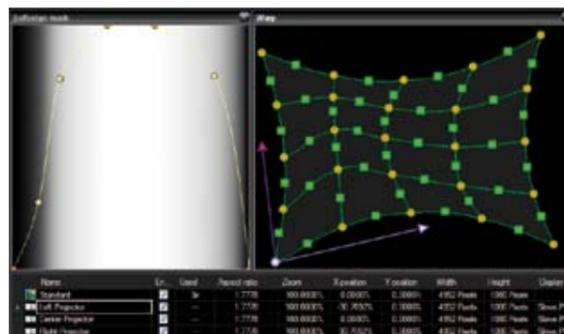
## Fast Results

All grid intersection points of the warping grid have handles and all corners have Bezier curves. Warping therefore can be done extremely quick and only requires relatively coarse grids and fewer editing nodes.



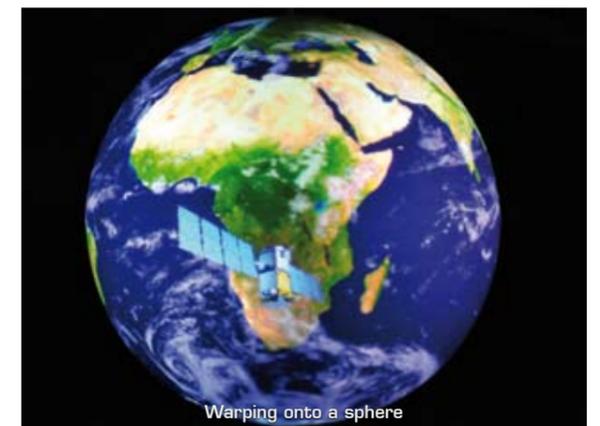
## All Displays configured centrally

Editing of warping has never been easier! All displays can be configured centrally. Warping and softedge masks are created in realtime which allows adaptation to the local conditions and projectors even shortly before a show.



## Complex Bodies

The high-performance warping function also allows correction of the output for projection onto complex bodies like for example a sphere or a dome using several projectors.



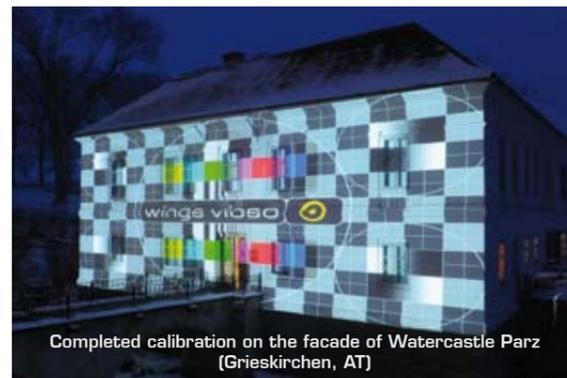
# Calibrate!

It's all about **VIOSO**

Camera based calibration with automatic warping and matching allows projection on exceptional surfaces without deformation and discoloration.

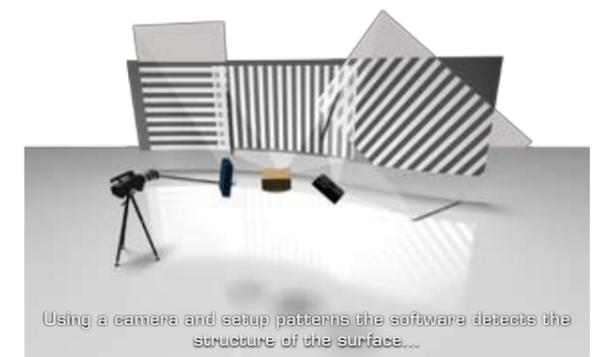
## Project onto anything

VIOSO® GmbH is the market leader in camera-based projection systems. VIOSO's patented camera-based calibration is natively integrated in Wings Platinum and enables anyone to project on almost any surface without deformation and discoloration using up to four outputs of one media server! Regular building facades and brick walls become advertising spaces, cinemas and art objects.



## Virtual white Canvas

The camera transmits the patterns generated by the media server and displayed by the projectors back to the system. This way the surface structure and color can be analyzed.



## Camera-based Calibration

To create such a virtual "white and flat canvas" a simple calibration process needs to be applied. This takes no longer than a few minutes and requires only a digital video camera which is connected to the media server for the period of calibration.



## Within shortest Time

After this the VIOSO-technology adapts the projection to the surface geometry. The colors of the projectors are adjusted and the softedge area is automatically determined creating the illusion of the content being projected onto a flat, white canvas. Calibrations which were previously tedious only take a few minutes. In a very short space of time fascinating shows in astonishing quality can be projected.



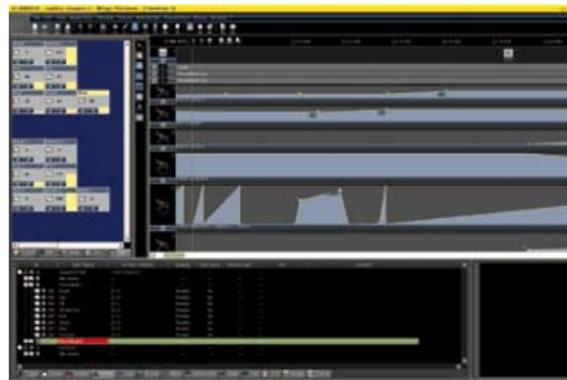
# Control!

It's all about **Show Control**

Use virtually any kind of hardware input and output to generate a unique overall experience.

## More than Image and Sound

A project for a multidisplay show in addition to audiovisual media may also contain commands for complex peripheral hardware installations.



## Outputs

Any number of show control channels are available for switching and control functions, e.g. DMX512, MIDI, 0-10V, RS232/485, switches, TCP/IP, UDP, etc.



## Inputs

Wings Platinum can be synced up with external input devices, e.g. external time code, via MIDI commands or DMX. You can also control your presentations via external signals from motion detectors, sensors or even via keypads, ISEO touch panels or mouse sensitive media objects with a mouse click.



## Interactive

Stunning live effects such as gesture control can be captured by Wings Platinum by syncing up certain inputs with data objects, recording and editing the data and including them in the show. This enables media objects to be shifted in real time or be manipulated in many ways via real time effects.



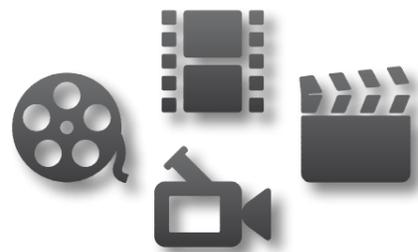
# Share!

It's all about **Rendering**

The presentation can be rendered at any time far beyond Full HD quality for easy distribution or Internet upload.

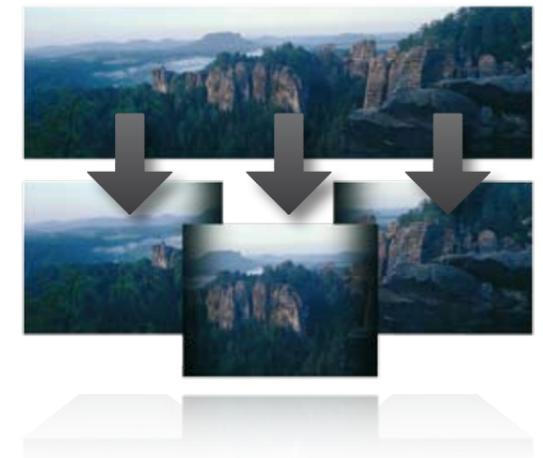
## All Resolutions and Formats

Once produced the show can be rendered in any quality from web up to resolutions beyond 4k and in any aspect ratio as H.264, MPEG-2, AVI-, Windows Media Video or other formats and therefore easily relayed everywhere.



## Split Rendering

In the case of extremely complex shows or to protect the original data a mixdown per display of all visual content in the form of split videos can be rendered. During playback the media server only has to play back one video file per display.



## Realtime Playback

The entire production can be started without delay at any time on just one display. This way a multidisplay show can be presented without a media server from a production notebook via a projector or LCD for a customer preview. The generation of an EXE presentation is also possible. Then images, video and sound are packaged together with a player and the show can be played back in original quality including interactivity on any computer without prior installation needed.



## From Web to BluRay

BluRay discs can be created easily using H.264 videos and Video DVDs even can be written directly by Wings Platinum. This feature is perfect for archiving the show, show distribution, split rendering or preview by customers without having the entire multidisplay hardware available.



# Play! It's all about Media Servers

The MediaEngine is a highly powerful media server with selected components for realtime processing of high-resolution content on up to four outputs.

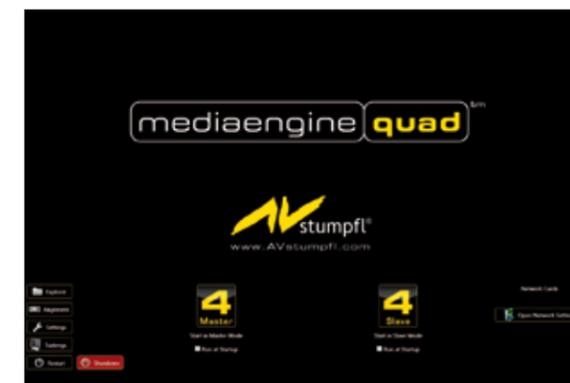
## Mobile or Installed

MediaEngine - honored by the Info-comm Award „Best Video Signal Processing and Distribution Product“ is a high-quality media server system for all types of applications ranges from fixed installations via mobile applications to live shows.



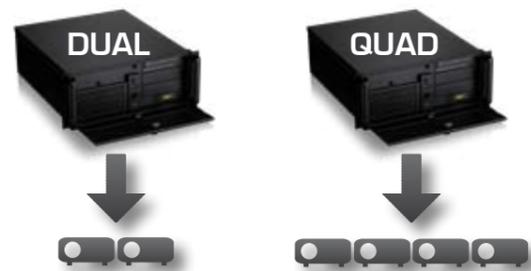
## Simple and Safe

Thanks to a reduced user interface its operation could hardly be simpler in spite of its high performance. The system's high degree of safety and the fact that it can be restored at all times make MediaEngine the preferred solution for sensitive applications.



## Dual or Quad

The systems are available as Dual and Quad versions and are designed to be built into a server rack or a mobile flight case.



## Live

Options such as DVI, components and HD-SDI inputs mean that the system is equipped for all kinds of live applications.



# Software

## The Licenses

Licenses are activated via USB hardware keys. There are neutral hardware keys where the activation of the individual licenses and their functions takes place via enable codes. There are also hardware keys where this function is permanently programmed. Thus it is not necessary to enter enable codes on the media server.

Should several displays in a multidisplay show be controlled by a media server one multidisplay license is necessary per display. For easier handling dual licenses are available. In order to drive four displays by one media server you can mix two dual licenses, four single licenses or one dual and two single licenses. This is an extremely flexible solution for the rental business. Driving more than two displays is only possible with an AV Stumpfl Media Engine.



## Demo Version

The demo version is free of charge and can be used to produce and process multidisplay shows without having to purchase a full version. The production of shows on several workstations, training and instruction are possible without full versions having to be installed on all computers. Once produced the show can of course be loaded and started immediately using a full version.

The demo version includes all functions including four outputs from a media server with VIOSO calibration. As a restriction a bar is visible in the presentation. Further restrictions are the lack of Show Control inputs and outputs, of networking as well as of the presentation and rendering functions.

## Wings Platinum **Show Control** Module

The Wings Platinum Show Control module is dedicated to professional users with sophisticated requirements in the field of Show Control. It is a software module and serves an an extended function for an existing full version of Wings Platinum.

## Multidisplay **Single** License wings platinum 4

Wings Platinum Multidisplay Single may be used as a master license or as a slave license for a display. It is possible to combine several Single and Dual licenses per media server.

## Multidisplay **Dual** License

The multidisplay dual license includes all the functions of the single license but two outputs per media server may be used. A combination of several Single and Dual licenses for up to a total number of four display outputs per media server is possible.

## Multidisplay **Quad** License

A quad license can be realized by a combination of single and dual licenses. Driving more than two displays from a single media server requires an AV Stumpfl Media-Engine.

## VIOSO **Single** License wings vioso ⦿

Wings VIOSO Single offers the professional user all the functions of the multidisplay licenses as well as the VIOSO calibration of the projected image by camera. This enables automatic adjustment for projecting via several projectors on uneven, curved or even totally irregular backgrounds. A combination of single and dual licenses for up to a total number of four display outputs per media server is possible.

## VIOSO **Dual** License

The VIOSO Dual license offers all the functions of the single license however two outputs per media server may be used. A combination of single and dual licenses for up to a total number of four display outputs per media server is possible.

## VIOSO **Quad** License

A quad license can be realized by a combination of single and dual licenses. Driving more than two displays from a single media server requires an AV Stumpfl Media-Engine.

# Hardware

## The MediaEngine

The MediaEngine is a highly powerful media server with selected components for realtime processing of high-resolution content on up to four outputs.

The MediaEngine is available as a Dual system with 2 display outputs and as a Quad system with 4 display outputs. Parallel to the display outputs there are always 2 outputs available for the control and programming monitors respectively. Driving more than two displays from a single media server is only possible with the AV Stumpfl MediaEngine. A wide range of accessories such as live video grabber cards, sound cards or flight cases are available as options.

mediaengine 



## Technical Data

Type SME-D1R (Dual) und SME-Q1R (Quad):

Intel based 64 Bit high performance multidisplay video server with 6GB RAM and 1GB graphics memory per dual output

High end graphics adapter with 2 (Dual) or 4 (Quad) DVI display outputs with up to 3840x1200 pixels resolution each (sync +/-0.5 frames)

Additional 2 DVI-outputs for control and editing screens (can not be used as display outputs)

System on SSD with 64GB

Data Storage on RAID1 with 500GB (available)

7.1 Channels Sound Output, S/P-DIF Output

8x USB 2.0 Ports (optional 2x USB 2.0 and 1x IEEE1394)

19" Case 4U / depth approx. 550mm (without cables)

Approx. 27 kg, 110 – 240V AC, 50/60Hz, max. 4.5A @230VAC, max. 9A @ 115VAC, max. operating temp. +30°C/86°F

Warranty 1 Year

## Options

Video grabber card with HDMI input (720HD and 1080HD) or video and S-video input (PAL, NTSC)

Full HD live video grabber card with components or HD-SDI input

DVI grabber card (available with one or two channels)

Firewire IEEE1394

Integrated serial interfaces (RS232)

Road kit: 19" flightcase with damped suspension and wheels for mobile use

External multichannel sound card

External USB/DMX module

(The simultaneous use of more than one option has to be checked)

# Support Service

## Project Consulting

Let us help you in planning both large and small scale projects. We offer you customized project consulting to help you making the right decisions. Projects often fail or become unnecessarily complicated due to the choice of the wrong systems or components - you can avoid this.



## Product Training

Whether training is general or tailor made - after a training session you will be able to complete the project more quickly. By request we can carry out training on site.



AV Stumpfl does not just supply products! We won't leave you out in the cold with your project and will be glad to assist you in making your show a successful event.

## On-Site Assistance

By way of on-site assistance you can be sure that your project will be successful. If required this assistance can be combined with product training on a „live“ project.



## Support Packages

Upon request we can offer you a customized project support package and are at your service both during business hours and after hours or at weekends either by phone or by e-mail.



# Multi Award Winning

Thanks to their unrivaled performance Wings Platinum and MediaEngine have received numerous awards:

- Best Video Signal Processing and Distribution Product - InfoComm 2010
- Best HD Production Product - InfoComm 2009
- Innovation prize of the DTHG and OeTHG - MEET 2008
- State Innovation Prize of Upper Austria 2007
- Best Control Product - Installation Europe Award 2007
- Best Software Product of the Year - InfoComm 2006



A passion for detail.  
Perfectly implemented.  
With more than 35 years of experience and know how.



AV Stumpfl Headquarters Austria

Thank you for all these national and international awards:



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