





Picture - from left to right:  
Tobias Stumpfl (Managing Director), Harry Gladow (Executive Director - PIXERA), Stefanie Niederwimmer (Executive Director - Screens)



AV Stumpfl HQ, Austria

# THE AV STUMPFIL PHILOSOPHY

Dear customers,  
partners and friends,

large scale images that will, once projected onto a screen, create magnificent dreams in the minds of the audience, have always fascinated humans. These images captivate us even more, if we are allowed to experience them as part of a community that is magically connected to us at that moment in time.

We know that audio-visual presentations, immersive experiences and large shows may not be necessary for mere short time survival, but they make us come together. Sometimes they fill us with awe, gift us with inspiration and beautiful memories and allow us to discover new paths in life. It is the stories that touch us, the images that awaken emotions inside, and it is the shared moments that make us laugh.

We at AV Stumpfl want to become a part of our partners' and customers' stories, when they install dreamworlds, create audio-visual illusions and bring people together by telling extraordinary tales.

We aim for an open exchange among friends, because we develop and manufacture our products based on shared ideas and experiences, so that it can be a joy to use them!

Your PIXERA team  
[www.PIXERA.one/team](http://www.PIXERA.one/team)

# NEXT GENERATION MEDIA SERVER PLATFORM

**PIXERA** is a 64-bit system for real-time media processing, compositing and management. It is built around the **key theme of usability**. Users can gradually discover the options and features and can smoothly transition from being a beginner to becoming a true specialist. **Actions in the 2D and 3D space follow the same basic mechanisms.** The system was designed so that users can **execute the most important basic actions in record time** and with only a minimum of effort. A radical new interface logic enables even first time users to **intuitively understand the main software mechanics**.

## HIGHLIGHTS

- ✔ Revolutionary GUI/usability concept
- ✔ Integrated projector and LED databases
- ✔ Intuitive 2D and 3D projection mapping workflows
- ✔ Powerful 8K real-time render engine
- ✔ PIXERA control show control framework
- ✔ XR/VR/AR Virtual production features
- ✔ Multi-User workflow
- ✔ Creator version for preprogramming and previsualization



# PIXERA SOFTWARE

## PIXERA SOFTWARE LICENSE OVERVIEW

### ▶ PIXERA CREATOR

A powerful pre-programming tool, available for FREE.

### ▶ PIXERA DIRECTOR

The PIXERA Director license can be used for pre-visualizing projects and for offline programming, in order to prepare and pre-program shows and content playout scenarios. It also features Master functionality, so that it can be used for controlling multiple PIXERA clients.

Should you have any more questions regarding license options or related topics, please contact us directly: [pro-sales@avstumpfl.com](mailto:pro-sales@avstumpfl.com)

### ▶ PIXERA PLAYER

The PIXERA PLAYER license is a versatile and powerful option for a great variety of applications. Please note that image sequences cannot be imported with this license option and that users can use a maximum of two timelines.

### ▶ PIXERA SERVER

The PIXERA SERVER license offers users all features of a standard PLAYER license without timelines being limited and with the ability to import image sequences. This license option is installed on all AV Stumpfl hardware products and is perfectly suited for using uncompressed content (Full HD, 4K, 8K depending on hardware).





# UPDATE ACCESS PACK (UAP)

WE ARE INTRODUCING THE UAP SYSTEM TO SPEED UP THE DEVELOPMENT OF NEW FEATURES AND IMPROVE OUR RESPONSIVENESS TO USER NEEDS.

- ✦ **Faster Feature Development and Customer-Centric Updates:** By moving away from the major version (1.0, 2.0, 3.0) model, we will improve the reliability and stability of our software. This approach normalizes the cadence at which features are added and allows us to release new features as soon as they are ready.
- ✦ **Enhanced Support and Documentation:** By regulating the workload of our development and support teams and removing the pressure of major release deadlines, we can provide a better product, improved documentation, and superior support.

## HOW DOES THE UAP WORK?

- ✦ **1-Year and 3-Year Access:** New software licenses include access to PIXERA updates. After this period, your UAP will need to be renewed to access new versions.
- ✦ **Optional Renewal:** If you choose not to renew your UAP, you can continue using any PIXERA version released before your UAP expiration date. However, updates and new features released afterward will not be available.

## FOR PIXERA HARDWARE USERS

PIXERA hardware dongles will continue to receive updates as long as the original PIXERA hardware is supported. If the dongle is removed and used with third-party hardware, a warning message will be displayed, and the dongle will convert to a software dongle. At that point, a UAP package must be purchased to regain update access.



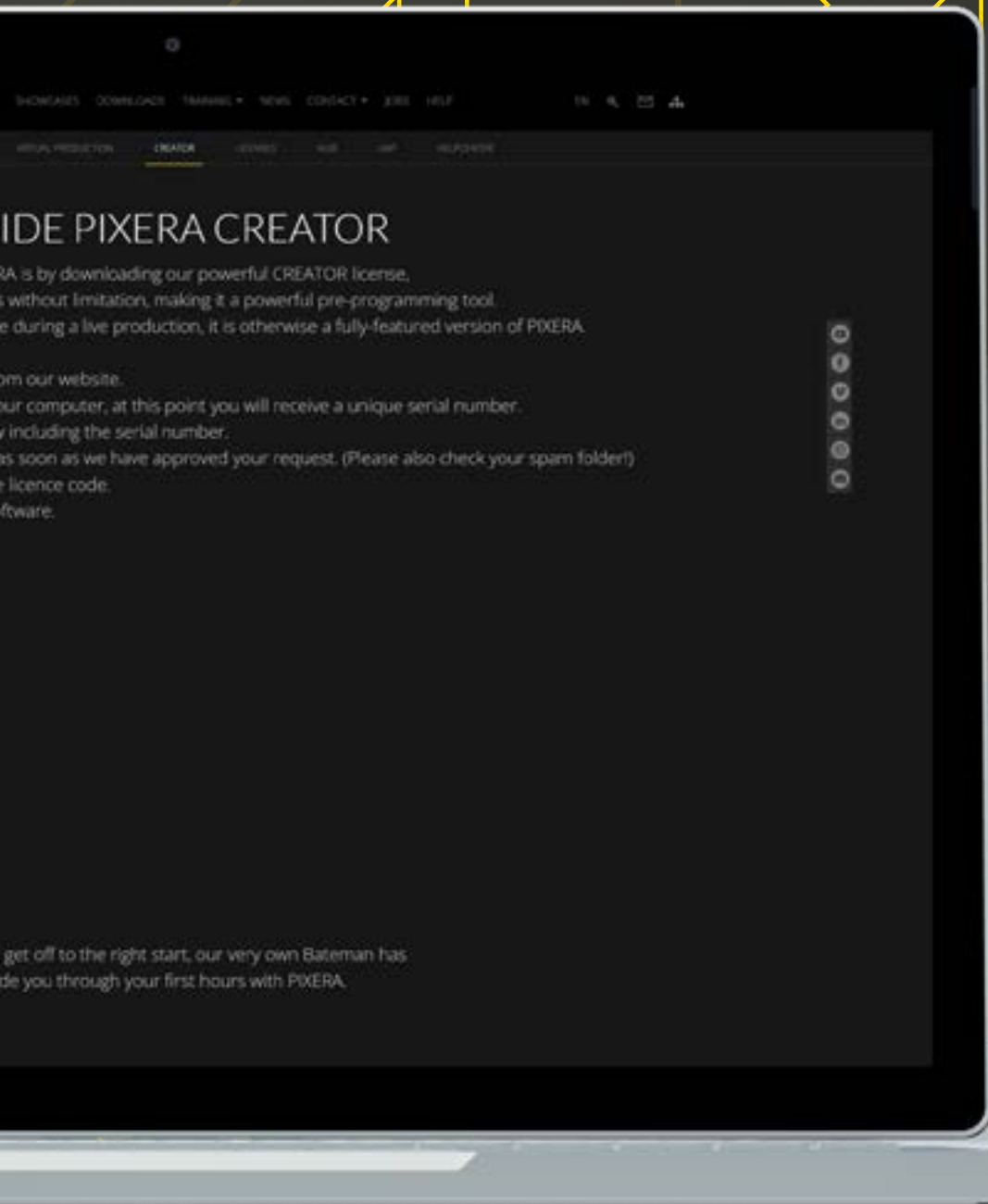
# CREATOR

Our **FREE** CREATOR license allows you to build and save projects without limitation, making it a **powerful pre-programming tool**. While an output watermark prevents its use during a live production, it is otherwise a **fully-featured** version of PIXERA.



**INSTALLER**





# YOUR PIXERA COMMUNITY



YOUTUBE



VIMEO



DISCORD



INSTAGRAM



FACEBOOK



NEWSLETTER



# PIXERA CONTROL

PIXERA users will notice a new tab in the main PIXERA interface. This „control“ tab is your gateway to a user friendly and versatile platform that allows you to **interact more directly with the incredibly powerful PIXERA API**.

One could also call it a **distributed integration and control framework** that empowers users to seamlessly **host new functionalities** within PIXERA and to **control all aspects of an extended project environment**. Anything you create and integrate can be distributed across your connected systems and shares itself.

[www.PIXERA.one/PIXERAcontrol](http://www.PIXERA.one/PIXERAcontrol)



# PIXERA CONTROL LICENSE OPTIONS

## PIXERA CONTROL GATE

- ✦ included in every PIXERA Version
- ✦ Import of custom modules
- ✦ Restricted to 10 Modules used in a project
- ✦ Restricted to 1 master (local)
- ✦ Basic timeline remoting from PIXERA CORE/ENTERPRISE

## PIXERA CONTROL CORE

### All the GATE functionality plus:

- ✦ Unlimited amounts of modules in a project
- ✦ Export and share custom created modules
- ✦ Unlimited PIXERA module remoting on multiple masters
- ✦ Standalone: Timeline for Data Layers

## PIXERA CONTROL ENTERPRISE

### All the CORE functionality plus:

- ✦ Advanced remoting access
- ✦ Support Camera Tracking modules:
  - ✦ Optitrack
  - ✦ Stype
  - ✦ Mo-Sys
  - ✦ Trackman
  - ✦ Anti Latency
- ✦ Portal/User Access Management
- ✦ Unlimited remoting of all individual modules on multiple masters

**NOTE: A PIXERA Control license has to run in Master mode and cannot run on a PIXERA client!**



PX4-24162

10.4.0.52



Search...



PX4-14957

10.4.0.71



PX4-22391

10.50.100.10



PX4-22394

10.50.100.20



PX4-22628

10.50.100.21



PX4-24162

10.4.0.52



PXM-24445

10.4.0.104



PXM-24446

10.4.0.108



PXM-24447

10.4.0.182



PXM-24448

10.4.0.130



PXM-24449

10.4.0.181

Dashboard

Installs

Manage

CPU AMD EPYC 7443P



Usage



Core Usage

PIXERA

1.9.201



1.9.201

Pixera is running



RAM 128 GB



Usage 9.8 GB

GPU NVIDIA T1000



Usage



Memory



Temp

GPU NVIDIA RTX A6000

# PIXERA hub

The PIXERA hub is a powerful collection of utilities for PIXERA users, so that they can improve and streamline their workflows for greater productivity.

PIXERA users now have much more flexibility to remote control and manage setups involving multiple servers, since the Hub offers you the following:

- discover servers in your network
- remote server monitoring
- remote PIXERA version management
- license management
- VNC
- auto updates
- autostart/service management
- fan control

Of course, this is just a first step and the hub will continue to evolve!



© Halostage, a brand of ICT AG

# VIRTUAL PRODUCTION

PIXERA is used in high-end **LED volumes** around the world as a powerful single solution; handling video playback, **real-time content**, and the combination of both.

Users can seamlessly switch between PIXERA and the natively integrated **Unreal Engine** without changing any network or graphics settings. The ability to **import custom 3D objects**, **LUTs**, **OCIO** files, **GLSL shaders**, etc. allows for extensive custom tailoring from project to project.

Crucially, for many studios and production companies who might already own heavy duty processing hardware, PIXERA is also available as a software only solution that can be installed on existing equipment.

With PIXERA Control users are empowered to create **simplified and mobile UIs**, that give clients and creatives the ability to intuitively interact with content in real-time, **live on set**.

PIXERA's highly flexible approach to **colour correction and management** is another key reason for its growing popularity in the virtual production community. Users can easily apply predetermined colour settings to achieve striking, realistic results that maintain consistency.





© KOCCA, StudioCube Studio V

## VIRTUAL PRODUCTION SETUP (UNREAL)

- ❑ One PIXERA four director is needed as a master for your preview.
- ❑ Each one of the LED walls needs its own PIXERA four for the background and back projected camera frustum.
- ❑ UNREAL (plug-in) renders on PIXERA four as a “resource-as-compositing” integration.
- ❑ For mixing the camera live signal and foreground, a dedicated PIXERA four server with a live capture card is necessary.
- ❑ The mixed output can then be fed to your video switcher.
- ❑ Stage Precision is used to feed tracking data (Mo-Sys, Stype, Optitrack,...) via direct API to PIXERA.
- ❑ Genlock has to be connected to your camera, tracking system, LED processors and one of the PIXERA clients.
- ❑ Framelock has to be used to sync the client servers.





# RENDERBRIDGE - THE DIRECT LINK TO REAL-TIME COMPOSITING

PIXERA RenderBridge is a render engine API designed for **low-latency, high-performance** ingestion into the **PIXERA ecosystem**. It's more than a feature - **it's a statement of our open platform philosophy**, giving creators the freedom to combine tools and workflows without compromise.

With **RenderBridge**, PIXERA becomes the hub for **real-time compositing and advanced 3D content workflows**. This technology is often highlighted in our resources as part of the compositing workflow, enabling unique and highly specialized approaches to **visual storytelling**.

Integrated Tools Include:



Whether you're blending **interactive elements, cinematic visuals, or generative content**, RenderBridge ensures everything works together **smoothly and efficiently** - so your creativity can flow without limits.

## UNREAL CONTENT PLUG-IN

By using the „Resource as Compositing“ feature, **Unreal scenes can be displayed within PIXERA**. In addition to this, AV Stumpf developed a **dedicated plug-in for the Unreal Engine** that makes it possible to **edit scene properties directly from PIXERA**. The plug-in can be used to e.g. move Unreal objects or adjust lighting settings.

The **scene properties appear in PIXERA as part of a layer** onto which the resource has been placed. This way, PIXERA users can use timeline tools to manipulate the virtual worlds before them. One could summarise the possibilities within PIXERA in this regard as creating **a powerful and integrated editing environment**, that allows for concentrating on the ultimate project/show experience to be created.

# PIXERA

## campus

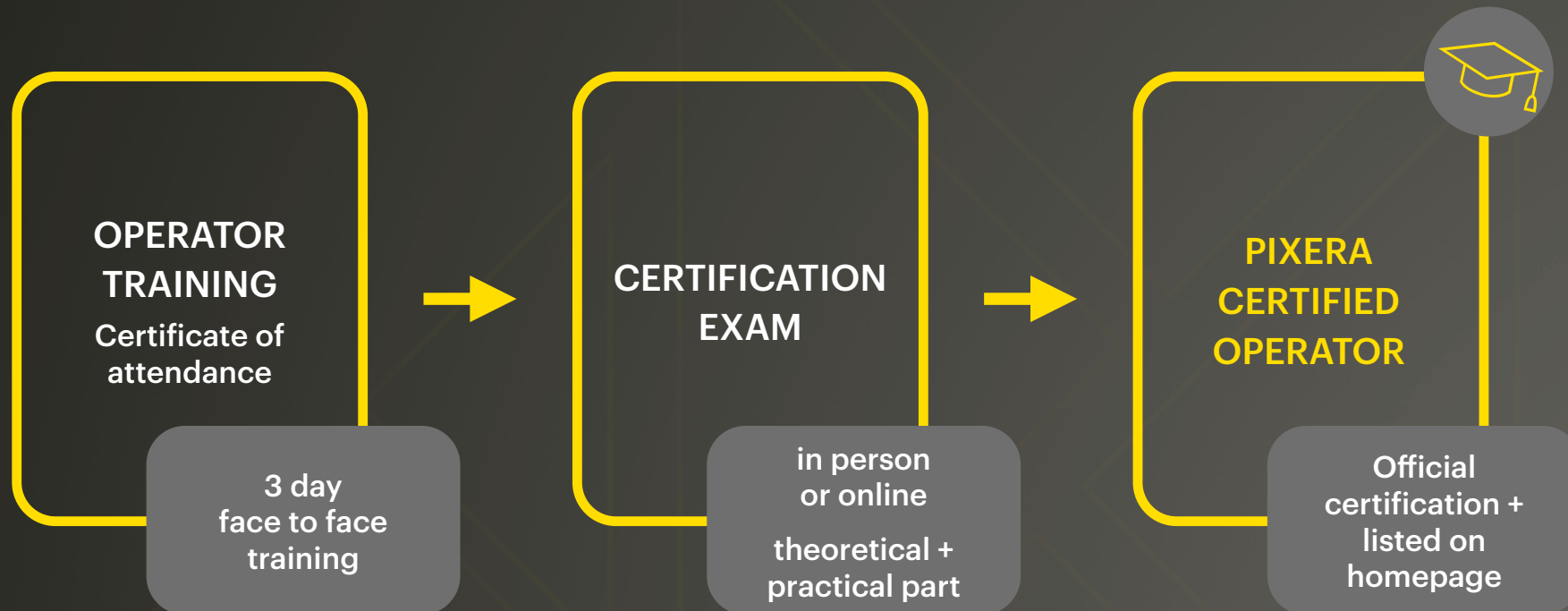
Take advantage of the experience of our trainers and let them show you what our real-time platform has got to offer.

Learn the necessary skills for your future projects and ideas. Find out how simple it is to meet you and your clients' demands for professional media integration

**Individual trainings are available on request.**

### Key topics

- ▼ Software basics
- ▼ Projector & LED setups
- ▼ Timeline programming
- ▼ 3D workflows
- ▼ Multi Client setup
- ▼ Advanced PIXERA software features
- ▼ Show control







CHECK OUT  
OUR TRAININGS!



# PIXERA HARDWARE

**VERSATILE. MODULAR. POWERFUL.**

The PIXERA hardware portfolio allows you to pick, mix and match exactly what you need to realise your projects.







# PIXERA zero

Compact and Powerful

PIXERA zero is a compact media server perfect for digital signage and multi-display applications. The PIXERA zero is a **2 U and 1/2 19" product**. Two PIXERA zero servers **can be installed in a 2U 19" rack**.

**This new media server model will be available with 2 or 4 outputs.**



## HIGHLIGHTS

- ✔ Versatile playback mediaserver
- ✔ Upgrade to 4x4K Output available
- ✔ Full PIXERA Server License included
- ✔ Intel Xeon Performance CPU 32GB RAM
- ✔ Nvidia Quadro GPU
- ✔ Up to 5GB/s Data Read Rate
- ✔ Full PIXERA Server License included
- ✔ Scalability and flexibility









# PIXERA one

## Compact, Flexible and User-Friendly

PIXERA one is a compact 1U server model, that can play back **uncompressed 4K at 60fps**.  
With a depth of only 45cm, the PIXERA one is perfect for installation environments.

**PIXERA one is available with 2 or 4 outputs.**



### HIGHLIGHTS

- ✔ super compact with a depth of only 45cm, perfect for installations.
- ✔ can be upgraded for Uncompressed 4K (4:4:4) 60fps content playback.
- ✔ many à la carte options for specifying hardware components
- ✔ available with 2 or 4 outputs
- ✔ 12G-SDI I/O support
- ✔ XEON CPU and 64GB RAM (up to 128GB RAM available)
- ✔ 5GB/s data read default rate

# PIXERA two

Reliable and Versatile

PIXERA two is a compact 2U media server system, that can play back **uncompressed 4K at 60fps**. It offers even more customization options than PIXERA one and comes with a redundant power supply.

**This new media server model is available with 2, 4 or 8 outputs.**



## HIGHLIGHTS

- ▶ super compact with a depth of only 46cm, perfect for installations.
- ▶ can be upgraded for Uncompressed 4K (4:4:4) 60fps content playback.
- ▶ many à la carte options for specifying hardware components
- ▶ available with 2, 4 or 8 outputs
- ▶ redundant power supply
- ▶ 12G-SDI I/O support
- ▶ XEON CPU and 128GB RAM
- ▶ 5GB/s data read default rate
- ▶ up to 30TB storage with 10GB/s available









# PIXERA four

## 4K and 8K's New Best Friend

PIXERA four GEN2 is an incredibly powerful media server hardware system, perfect for **highly demanding real-time graphics** applications and **XR/AR broadcast setups**.

This new media server can be used as a director server or as a 2 or 4 licensed output server.



### HIGHLIGHTS

- ✦ powerful, flexible and reliable 4K and 8K media server
- ✦ newest NVIDIA PRO GPU
- ✦ up to 20GB/s constant data read rate
- ✦ five PCI 5.0 slots offer great configuration flexibility
- ✦ AMD Performance CPU and 256GB RAM
- ✦ Available with 2 or 4 outputs
- ✦ Redundant power supply
- ✦ Up to 61TB storage with 20GB/s available
- ✦ 12G-SDI I/O support



# PIXERA four RS

## A New Standard

In order to be able to offer our customers a special **pre-configured** version of our powerful PIXERA four GEN2, **perfect for cross rental scenarios**, we created the PIXERA four GEN2 RS.

The **RS** stands for **rental & staging** in this context.



### HIGHLIGHTS

- ✦ PIXERA four QUAD GEN2
- ✦ PIXERA control CORE License
- ✦ 16TB high speed Storage
- ✦ 20GB per second
- ✦ 1GbE Quad Network Card
- ✦ 25GbE Dual Network Card
- ✦ 12G-SDI Input/Output or 4x 3G-SDI
- ✦ 1x HDMI 2.0 Input
- ✦ Framelock and Genlock
- ✦ Dante Virtual Sound Card
- ✦ 4x mDP1.4 GUI Output
- ✦ XLR AUDIO interface









# HARDWARE CONFIGURATOR

FIND THE PERFECT SERVER FOR YOUR PROJECTS

PIXERA server hardware offers you a lot of choices when it comes to the specific configuration of the server models that fit your project requirements. In order to make finding the perfect configuration easy and fun, we created a versatile hardware configurator tool, which you can access on our website.

[www.PIXERA.one/configurator](http://www.PIXERA.one/configurator)





AV Stumpfl GmbH | Mitterweg 46 | 4702 Wallern | Austria  
info@AVstumpfl.com | www.PIXERA.one  
tel.: +43 (0) 7249 / 42811 | fax: +43 (0) 7249 / 42811-4

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