

BRING YOUR CREATIVITY TO LIFE

MEDIAMASTER EXPRESS / MEDIAMASTER PRO / LEDMASTER

arKaos | PRO





## A letter from ArKaos CEO and Software Architect, Marco Hinic

Welcome! At ArKaos, we have spent more than 20 years developing real-time visual processing technologies that integrate and synchronize video and music, visual shows and live performances.

### **Basically... we work, so you can play.**

Our software and unique hardware media servers have earned a well-deserved reputation for unrivalled performance in speed, effects and manipulation of simultaneous high-definition videostreams. We continually work to develop a product portfolio which is based on operational simplicity and accessibility for users of all levels of ability – a philosophy which sets us apart from other media software manufacturers.

### **Our simplicity doesn't compromise performance.**

All our products are united by the same ethos: the real-time manipulation of media with the best possible controller integration, blistering performance and rock solid stability and guaranteed support from our team.

### **Our innovations meet real time needs.**

We continue to develop tools to keep ahead of technology, adding LED fixture control to our skills with the introduction of our Kling-Net protocol and LEDMaster, an all-in-one solution for the control of LED lighting, in three easy steps, that anyone can master.

### **We are proud of our contributions to the industry.**

We were among the first to come up with cross-platform software that runs on everything from laptops to powerful servers, and have succeeded in educating the market with a totally new product that gives flexibility to all, from the independent light designer to rental companies.

### **We will never stand still.**

We keep innovating with new developments and improving on existing products. But above all, we continue to keep our software affordable, intuitive and flexible.

We look forward to working with you.



# Bring Your Creativity to Life

ArKaos software solutions meet today's needs by giving lighting designers and operators rock-solid, professional control of their shows. ArKaos products deliver unrivalled performance in speed, effects and manipulation of real-time visuals.

## MediaMaster Express

If you have a simple need of DMX or MIDI synchronization but still want to benefit from the powerful media management and efficient media playback of MediaMaster, the Express edition is your best choice.

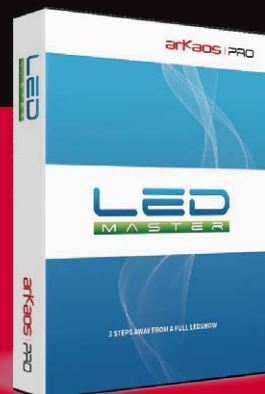


## MediaMaster Pro

MediaMaster Pro will turn any powerful computer into a full-fledged professional media server capable of running live or programmed video shows in sync with music and light.

## LEDMaster

LEDMaster is an all-in-one solution to run LED light shows for everyone. Originally designed around Kling-Net, this fast and easy application will take your LED show to the next level.



# What Our Clients Say...

“Working with Alpha Channels and the impressive audio-generated content that reacts exactly with the music is a real improvement to our show. The real-time effects give some very dynamic and exciting new ways to play back live cameras on the screens. But most importantly, MediaMaster is rock stable; at this point we have done about 50 shows and it has never failed on us.”

Koen De Puyssleir, LD – Tiesto Tour



## Protection system

This system gives you the flexibility to activate and deactivate your software products, easily moving your licence from one machine to another. An occasional connection to the internet is required to keep the licence activated.

If you want to move your licence with you, we offer an optional licence dongle. This allows you to instantly activate any prepared machine or even switch live during a show to another machine with our unique hot swapping feature. The software reacts immediately if you plug your licence dongle to switch from demo mode to activated mode.

Version Comparison	Express	Pro
Layers	8	12
Theatre Mode	Yes	Yes
Fixture Mode	No	Yes
LED Mapper	Yes	Yes
Kling-Net Mapper	Yes	Yes
Video Mapper	No	Yes
Geometrical Correction	Basic	Advanced
Soft Edge	Basic	Advanced
Optional Dongle	Yes	Yes
Cue Player (in Theatre mode)	Yes	Yes



# MediaMaster Express

MediaMaster Express is all you need to quickly setup a show that includes video.

If you have a simple need of DMX or MIDI synchronization but still want to benefit from the powerful media management and efficient media playback of MediaMaster, the Express edition is your best choice. The Cue Player, for example, allows reliable, accurate playback of visual sequences on shows or installations requiring repeated automated playback.

Prepare your visual show in the software itself simply by dragging and dropping visuals and effects on the interface, then take control of your visual presets with a few channels on your lighting desk or notes on a MIDI controller. The Theatre mode interface of MediaMaster allows users to prepare a visual show without programming a lighting desk.

## Main features

- Control video layers with a few DMX dimmers or MIDI notes
- Work on a single DMX universe or MIDI channel
- Drag & Drop visuals directly on the main interface
- Organize your shows with up to 64 patches of 128 cells
- Control up to 3 parameters per cell via DMX or MIDI
- Optional fade time on trigger
- LED Mapper and Kling-Net Mapper included
- Cue Player

### Control interface

- Computer keyboard
- Any MIDI controller compatible with your system
- Any DMX lighting desk

### System requirements (PC)

- OS : Windows™ XP, Vista, 7, 8 or 10
- Processor : Pentium™ IV 2Ghz, Core Duo 1.83Ghz recommended
- RAM : 1GB, 2GB recommended
- Media Player : QuickTime™ 7 (and up), Adobe FlashPlayer™ 9 (and up), DirectX™ 9.0c (and up)

### System requirements (Mac)

- OS : Mac OS X 10.5 (and up)
- Processor : Any Intel Mac, Core Duo 1.83Ghz (and up)
- RAM : 1GB, 2GB recommended
- Media Player : QuickTime™ 7 (and up), Adobe FlashPlayer™ 9 (and up), DirectX™ 9.0c (and up)



01  
Chivas House Party,  
TouchMe Marketing,  
Kristian Estrada,  
Venezuela 2015



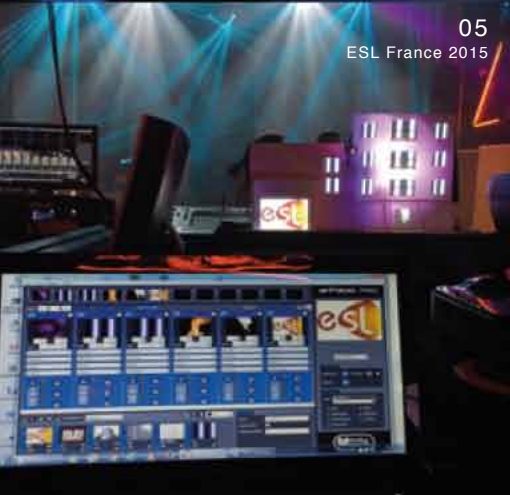
02  
Gouden Schoen 2014,  
award show Belgium  
Design: Never Fear Shadows  
(Michiel Milbou/Kristof Devriese)



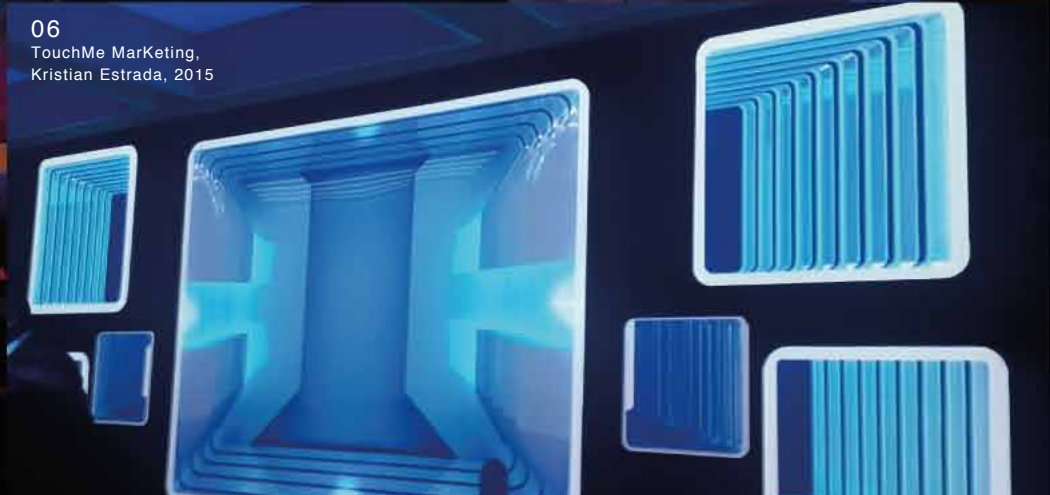
03  
Smooth Operators,  
Full Stage Productions,  
Dallas 2015



04  
TV studio - Abu Dhabi Media Company  
Endemol ME  
Technology partner: Shock Solutions



05  
ESL France 2015



06  
TouchMe Marketing,  
Kristian Estrada, 2015



# MediaMaster Pro

MediaMaster Pro will turn any powerful computer into a full-fledged professional media server capable of running live or programmed video shows in sync with music and light. You can do it all with MediaMaster Pro, it's the Swiss Knife of media server software!

## Main features

- Includes all the features from MediaMaster Express
- MSEX Compatible: thumbnails preview and live output on your MSEX compatible lighting desk
- 4 available fixtures: mini, tiny, full and extended
- Geometric correction & soft edge settings per output
- Supports fixtures customization to add new effects
- Video Mapper, LED Mapper and Kling-Net Mapper included
- Cue Player in Theatre mode

### Control interface

- Computer keyboard
- Any MIDI controller compatible with your system
- Any DMX lighting desk

### System requirements (PC)

- OS: Windows™ XP, Vista, 7, 8 or 10
- Processor: Pentium™ IV 2Ghz,  
Core Duo 1.83Ghz recommended
- RAM: 1GB, 2GB recommended

### System requirements (Mac)

- OS: Mac OS X 10.6 (and up)
- Processor: Any Intel Mac,  
Core Duo 1.83Ghz (and up)
- RAM: 1GB, 2GB recommended

### Geometrical Correction & Soft Edge

- **Easy to Use**  
Projecting video on non-planar surfaces is incredibly easy.
- **Fully Equipped**  
Existing test patterns and grids help precise alignment of your visuals or real-time video content over non-planar or curved screens.
- **Streamlined**  
Advanced geometrical correction, combined with pixel-precise edge blending per output, enables even the most complex screen setups with ease.



01 Car videp mapping, Prolight +Sound, Frankfurt 2013



02 Camilla Tour, Showplus 2015



03 Badlands Pawn, BluePlanet Lighting, 2016



04 Badlands Pawn, BluePlanet Lighting, 2016

05 ArKaos Demo 2015

## LED Mapper

### Customizable

The LED Mapper extension can import your own mapping of LED devices\* into MediaMaster, making it possible to control everything from a single MediaMaster server.

### No Need for Expensive Hardware

The LED Mapper extension allows mapping of the server's video output directly to any configuration of LED panels. There is no need for expensive hardware to convert video signal (VGA or DVI) into DMX signal.

### Flexible

Pixel colours or intensity are sent directly from the media server to the panels through the ArtNet protocol (DMX over Ethernet) which, if needed, can easily be converted into a standard DMX signal using simple Ethernet-DMX node.

### Main features

- Fast and intuitive user interface
- Personalities for most common LED fixtures on the market
- Easy custom fixture design window
- Drive RGB, RGBI (level/intensity) and level only fixtures like bulbs and dimmers
- Extremely flexible and efficient programming
- Mac and PC compatible

\* Limitation being the 256 DMX universes

## Video Mapper

The ArKaos Video Mapper is an extension for MediaMaster Pro which allows easy mapping of video onto irregularly shaped surfaces and through multiple outputs.

### Quick Setup

Designed to let you setup mapping projects in very short times, it makes it incredibly simple to flow visuals around complex objects with just a few clicks.

### Flexible

The extension will serve to send the output from each layer to virtual surfaces that can be scaled, deformed, and assigned to any physical output.

### Efficient

One output can display a full screen visual or a composition of several mapped visuals; output to a video projector and you can map the surfaces to any physical volume such as an object or building.

### Main features

- Fast and intuitive user interface
- Full management of display specifications (resolution / frequency)
- Supports output to multiple video cards
- Easy to use deformable surfaces (rectangles, grids, triangles)
- Each surface can have an optional mask
- Surface cropping allows selection of part of the layer output
- Surface grouping allows one layer to be sent to many surfaces
- Full undo / redo implementation
- Import and export your mapping
- Works with MediaMaster Pro (Simple Mode or Fixture Mode)
- Mac and PC compatible



# LEDMaster

LEDMaster is the all-in-one solution that allows anyone to run a LED lightshow. Once connected to any Kling-Net device, LEDMaster, by design, automatically recognizes and configures the device, making it instantly ready for mapping. All connected fixtures and mapped devices can be viewed in one window without the need to enter any numbers or values.

This fast and user-friendly solution will perform most of the configuration automatically in 3 steps:

## Just Map, Program and Perform...It's that simple.

### 1. Mapping Mode

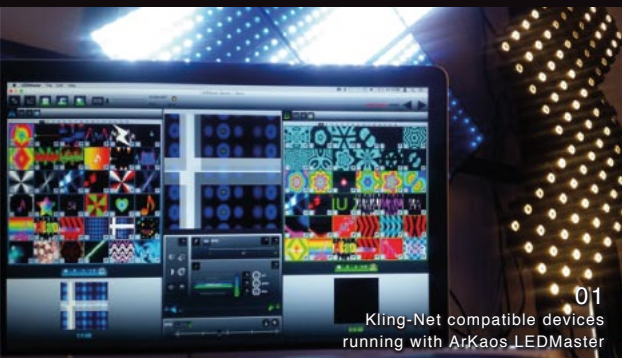


The Mapping mode works together with Kling-Net to automatically configure your software and allows you to create virtual groups called Zones, so you don't need to think about Art-Net, DMX, nodes, or addressing. Everything is done for you, making your setup easy and incredibly flexible!

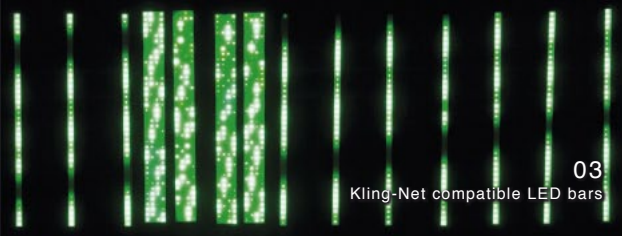
### 2. Programming Mode



The Programming mode allows you to create sequences using a Timeline-based Editor, or utilize the Live Pattern Generator giving you a hands-on interactive experience. Both methods can be used simultaneously.



01  
Kling-Net compatible devices  
running with ArKaos LEDMaster



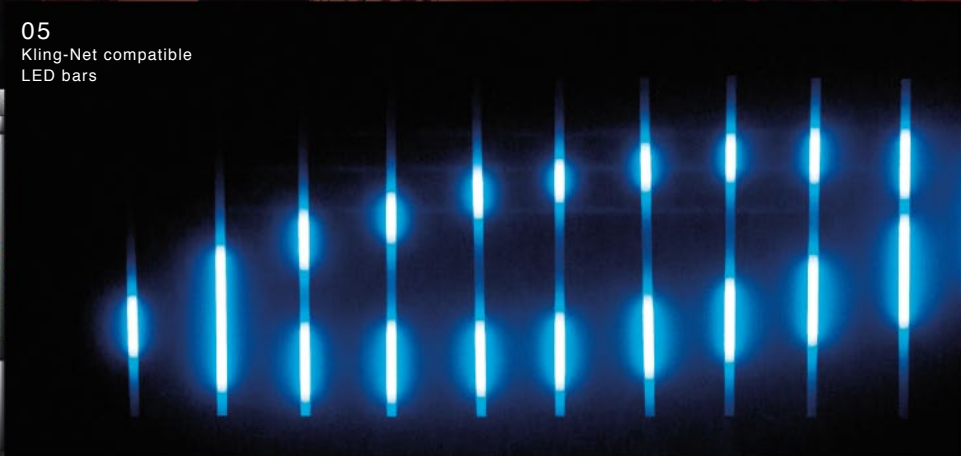
03  
Kling-Net compatible LED bars



04  
LEDMaster interface



02  
Luxibel Showroom ArKaos Technology



05  
Kling-Net compatible  
LED bars

### Timeline-based Editor – Pre-programmed

- Pre-program your full show
- Access our Media Library or import visuals from your own

### Live Pattern Generator – Hands-on interactive approach

- Hard edged visuals on the smallest or biggest LED installations
- No need to create or purchase expensive visuals
- Generates live visuals for you, based on the mapping you have made

## 3. Performance Mode



The Performance mode triggers your custom created sequences live, manually, randomly, or sequentially. Beat detection ensures your visuals are synchronized with the music. The live patterns can generate unique visuals adapted to the atmosphere of your show.



## Kling-Net

A revolutionary plug-and-play protocol for LED devices. The Kling-Net protocol allows the distribution of real-time video data to remote display devices, such as LEDs or LED panels, over Ethernet.

We have removed all complexities and replaced it with an easy protocol that will automatically handle all networking and control processes.

### What does Kling-Net do?

- Allows the connection of display devices to a computer with automatic configuration
- Adds a layer of 'intelligence' to even the simplest LED device, enabling it to talk directly to the Media Server
- Ensures perfect time synchronization of multiple display devices
- Avoids the use of expensive hardware video converters to send video to display devices
- Allows the creation of an heterogenic network of display devices from different manufacturers, which can all be controlled from one computer
- Removes complicated setup processes



01  
Prolight+Sound Frankfurt 2015,  
Music&Lights IT stand



03  
Kling-Net compatible LED devices  
running with LEDMaster



02  
Pukkelpop 2013



04  
Prolight+Sound  
Frankfurt 2015



05  
Kling-Net and  
MediaMaster Pro

## LED Lighting for Everyone!

### Auto Configuration

Kling-Net's auto configuration capabilities allow a large range of devices to be controlled by the same Media Server, thus avoiding the painful process of creating and matching profiles between the Media Server and each individual device.

Because the Media Server performs the image clipping and transformation, and then outputs the correct pixel format, the work left for the display device is minimal. And since the Media Server does all the work, your video can play at a smooth 60 FPS.

### Affordable and Sophisticated

Kling-Net brings LED lighting within reach of the smallest clubs and venues by making it less technical and less expensive. LED lighting is now easy to use and cost effective; thanks to the Kling-Net protocol you no longer have to use expensive devices to obtain sophisticated control.

### Universal Application

Kling-Net has been designed to work with almost any manufacturers' LED products. It relies on a source code which is capable of transforming even the simplest LED device into an intelligent Kling-Net device.

### Licencing Kling-Net

Kling-Net can be embedded in any manufacturer's product under licence from ArKaos. Since it was launched at PLASA 2011, the Kling-Net protocol has been adopted by major brands from the entertainment and lighting market such as Chauvet, Elation, Highlite, Robe and Luxibel.

If you are manufacturing LED devices and would like to add Kling-Net support to your products, contact us and let us know about your project.

# MEDIA SERVERS FAMILY

ArKaos Media Servers are designed for those looking for a high performance turnkey solution to seamlessly run real-time video shows. They are the result of the latest research made by ArKaos in terms of raw performance but also structural strength, vibration and heat tolerance. ArKaos Media Servers are built to deliver outstanding performance, stability and durability.



## STAGE SERVER

The Stage Server is a perfect solution for live entertainment, theatre, educational, audio-visual and worship applications.

Available with MediaMaster Express or MediaMaster Pro and two full HD outputs, it is the perfect partner for the production of smooth visuals that can be controlled over MIDI / DMX or just a keyboard.



## STUDIO SERVER

The Studio Server runs full HD video on up to four EDID managed outputs and comes with one HD-SDI input and fast SSD drives as standard.

The custom made case features a very convenient display on the front which allows the server to be used without the need of additional screens. A large LED strip conveniently provides a quick visual feedback on the server's state of operation at any time.

Shock-resistant up to 2G, heat-tested, and with easy access to fans and dust filters, it's totally road-ready.



## STADIUM SERVER

The Stadium Server is an incredibly powerful system designed as a top-of-the-line solution for professional lighting designers.

It offers six EDID managed outputs, two HD-SDI inputs and doubles the amount of storage space.



# SERVER COMPARISON TABLE

I/O SPECIFICATIONS	STAGE SERVER	STUDIO SERVER	STADIUM SERVER
Interface output	1 (DVI/DP) *	1 (DVI) *	1 (DVI) *
Output	2 (DVI) *	4 (DVI) **	6 (DVI) **
EDID Management	No	Yes	Yes
Input (Standard)	No	1 x HD-SDI	2 x HD-SDI
Input (Upgrade)	Up to 2 x HD-SDI or 2 x DVI	Up to 4 x HD-SDI & 2 x DVI	Up to 4 x HD-SDI & 2 x DVI
Output resolution	2 x Full HD	4 x Full HD	6 x Full HD
DMX- 5- pin connectors	Yes	Yes	Yes
Firewire 400/800/e-sata	No	Yes	Yes
USB	4 x USB 3.0 + 4 x USB 2	2 x USB 3.0 + 4 x USB 2	2 x USB 3.0 + 4 x USB 2
Balanced audio in/out(XLR)	No	Yes	Yes
Network	2	2	2
STORAGE			
System Drive	SSD 256 Gb	SSD 128 Gb	SSD 128 Gb
Separate Data Drive	No	SSD 256 Gb	SSD 480 Gb
SOFTWARE			
MediaMaster	Express / Pro	Pro	Pro
CuePlayer (in Theatre mode)	Yes	Yes	Yes
LED Mapper	Yes	Yes	Yes
Kling-Net Mapper	Yes	Yes	Yes
Video Mapper	Yes (Pro version only)	Yes	Yes
Acronis Backup System	Yes	Yes	Yes
Layers Full HD	3	Up to 12	Up to 12
Layers HD	5	12	12
Soft-Edge / Geometrical Correction	Yes (Pro version only)	Yes	Yes
CONTROL			
Control Display (front panel)	No	Yes	Yes
LED Strip (front panel)	No	Yes	Yes
DMX / MIDI / Keyboard	Yes	Yes	Yes
ArtNet / MA-Net	Yes	Yes	Yes
HARDWARE			
Voltage	107-240V auto switching	107-240V auto switching	107-240V auto switching
Professional Connectors	No	Yes	Yes

\* Can be converted to VGA & HDMI, connectors not provided

\*\* Can be converted to HDMI, connectors not provided

“There are two kinds of light –  
the glow that illuminates,  
and the glare that obscures.”

James Thurber

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