



# CALICO | PRO

VIDEO PROCESSOR

**DELIVER QUALITY  
IN QUANTITY  
FROM SOURCE  
TO DISPLAY**

PRODUCT BROCHURE



## FOUR DECADES OF ENGINEERING CONFIDENCE

Here at tvONE, we are proud of our strong legacy of technical innovation, and we look ahead to even more significant contributions to the professional AV industry. We remain committed to developing state-of-the-art technology, which continues to move the industry forward and instills confidence in its users.

Our in-house research & development team is dedicated to developing and deploying reliable, top performance technology. Our fifth-generation, proprietary, processing engine, CALICO, transcends other solutions, providing visibly enhanced image fidelity and even more video processing flexibility for all your needs today and in future.

# CALICO

VIDEO PROCESSING

## A REVOLUTION, NOT AN EVOLUTION

CALICO takes its name from a neutral, woven textile that provides a versatile base fabric for dyeing and printing with high-quality colors. The process reflects the CALICO mission to provide a family of trusted solutions that enable users to display and manipulate video in equally creative ways.

This fifth-generation, proprietary, processing engine is developed solely by tvONE and leads the way for innovation in video processing delivering visibly enhanced image fidelity, improved color rendition and even more video processing flexibility.



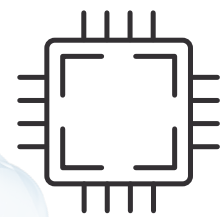
# DEMAND VISUAL PERFECTION



## THE CALICO PRO DIFFERENCE

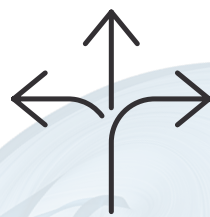
CALICO PRO sets a new standard in video processing technology. This revolutionary video processor has no window limits with industry leading, ultra-low latency, 4K60, 10-bit image processing and HDR support.

CALICO PRO enables the most complex, multi-window workflows in the market.



### IMMENSE PROCESSING POWER

CALICO PRO provides unrivaled processing power, with huge creative design canvasses delivering high resolution, high quality video. Hundreds of video layers can be added to deliver “big data” and “big video” across a wide range of markets and industries.



### FLEXIBLE FEATURE SETS

Off-the-shelf video scalars cannot adapt to new markets or standards. With CALICO PRO technology, it's easy to add or change features providing total flexibility to give the customer exactly what they want.



### BUILT TO LAST

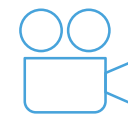
Built for demanding, professional applications, CALICO PRO is built to last and grow with the customers' needs to provide guaranteed “obsolescence insurance.” We stand behind our superior quality by offering an industry leading 5 year parts and labor warranty.

# CALICO PRO TECHNOLOGY

Building upon our strong heritage of delivering the highest image fidelity, we have taken this philosophy a step further with exquisite up/down/cross conversion and video standards conversion for the ultimate management of various resolution sources and displays.

Capable of end-to-end 4:4:4 processing, combined with the highest quality conversions between 4:2:0, 4:2:2 and 4:4:4 color spaces, makes CALICO the most innovative and flexible technology on the market.

CALICO PRO supports up to 66 million pixels with standard or custom resolutions to implement LED with total precision including 30bit True Color.



### 10-BIT VIDEO PROCESSING

Visibly better! Incredible image fidelity comes as standard with our fifth-generation processing engine.



### INCREDIBLE BANDWIDTH

Move and manipulate massive amounts of video without compromise with Gigapixels of raw processing power.



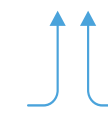
### WINDOWING & STACKING

Display your sources how you want them. CALICO PRO delivers more windows, keys, and labels than you will ever need.



### IMPERCEPTIBLE LATENCY

However complex your set up, CALICO PRO delivers your content from source to display in typically one frame.



### PARALLEL PROCESSING

CALICO PRO delivers massive processing without any bottlenecks to handle large data management with no loss of image fidelity.



### FPGA EXPERTS

Where CALICO PRO needs hardware, we use FPGA not GPU to enable ultimate reconfiguration and customization.



# CALICO | PRO

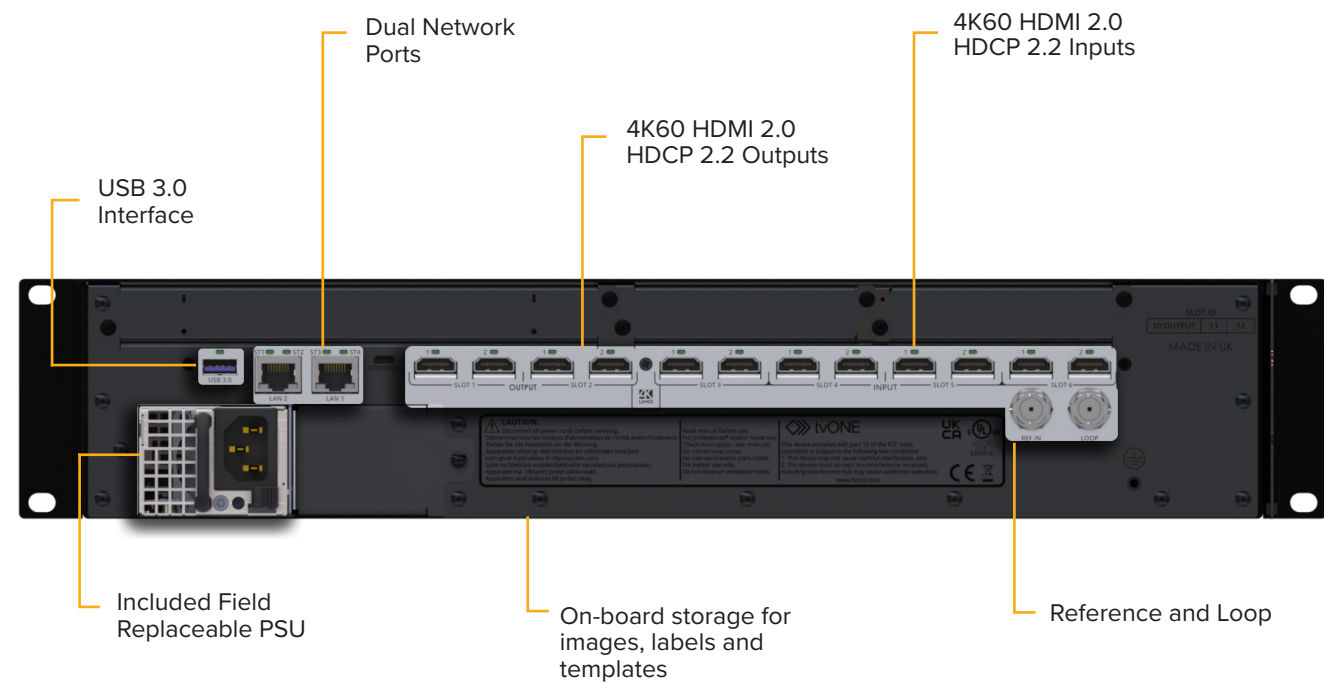
## CREATIVITY WITHOUT LIMITATIONS

The CALICO PRO Video Processor has been designed from the ground up to achieve superior results for computer graphics, broadcast sources, IP Streams, still images and multimedia clips at their native resolution up to 8K now and in the future.

Our aim is to deliver the highest quality, accurate and visually realistic processing of any video irrespective of aspect ratio or resolution, utilizing our propriety 10-bit video processing. Our goal is to ensure that no detail is lost in preserving full motion video and image stills from source to display with guaranteed visual perfection right down to pixel level.

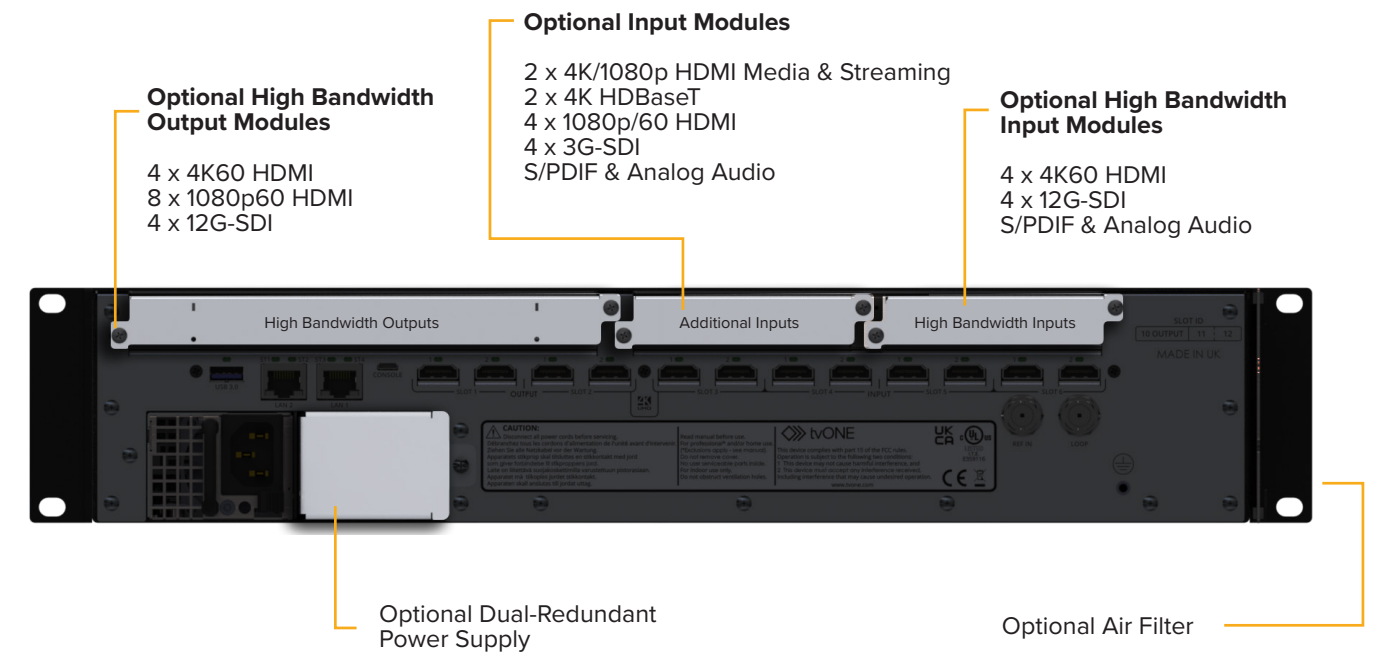
## OUT OF THE BOX PERFORMANCE

CALICO PRO is a desktop or rack-mountable 2U video processor that ships with an I/O configuration of eight 4K60 inputs and four 4K60 outputs as standard.



## CUSTOM SOLUTIONS

To create a larger solution, it is simple to include additional modules to build systems up to 16 inputs and 12 outputs:





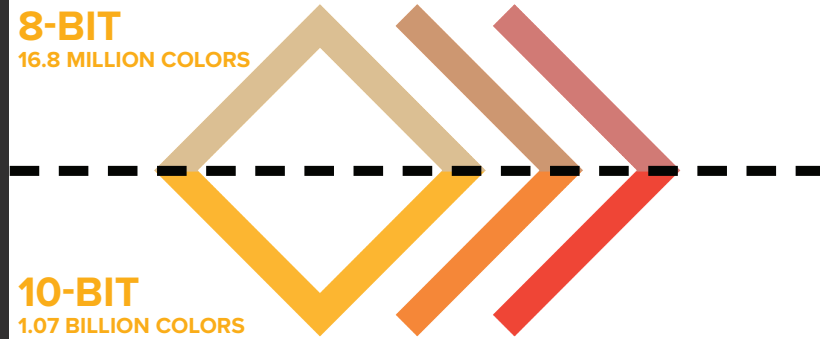
# UNDER THE HOOD

CALICO PRO technology delivers innovative features, seamlessly integrating cutting-edge advancements such as seamless 8K management, color depth, and robust content management to deliver an enhanced user experience.



## UNRIVALED BANDWIDTH

CALICO PRO is optimized for unrestricted, uncompressed, end-to-end performance even when working with 8K60 video. Using patented tvONE technology, CALICO delivers high data rate video processing levels combined with both physical and IP friendly workflows.



## SUPERIOR COLOR DEPTH

CALICO PRO offers class-leading 10-bit processing (30-bit True Color) for accurate reproduction of even the finest image details. Enjoy accurate color reproduction for correct branding and to enable HDR workflows.



## SEAMLESS HDR MANAGEMENT

CALICO PRO supports multiple HDR standards and can seamlessly convert from one to another. It is simple to re-format SDR into HDR video, or vice-versa, removing many technological barriers to superior color.



## FLEXIBLE SOURCE CROPPING

Easily manipulate multiple crops from the same source and use these as separate windows to easily manage your content, maximize your input efficiency and to reduce cabling requirements.



## KEYING

Enhance the viewer experience with real-time keying to add logos and build your brand.



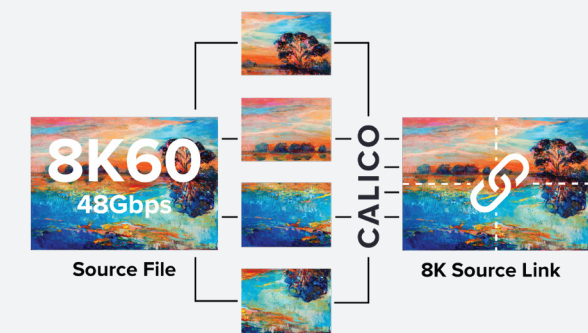
## SOURCE & OUTPUT ROTATION

Both source windows and outputs can be freely rotated from 0° through to 360° allowing ultra creative display set ups.



## ENDLESS LAYERS

CALICO PRO offers more layers than you will ever need within an extremely flexible, and easy to set up, stack-based management system allowing for interchangeable 8K, 4K and HD resolution layers.



## SEAMLESS 8K

CALICO PRO is capable of processing and managing multiple 8K60 sources and displays. For existing workflows, use Source Link to seamlessly link your four 4K sources into a single synchronized 8K resolution window that can be freely transitioned, switched, and keyed.



## SIMPLIFIED OPERATION

CALICO PRO guarantees pixel perfect and visually stunning content every time with fully automatic selection of the highest quality video without operator intervention.

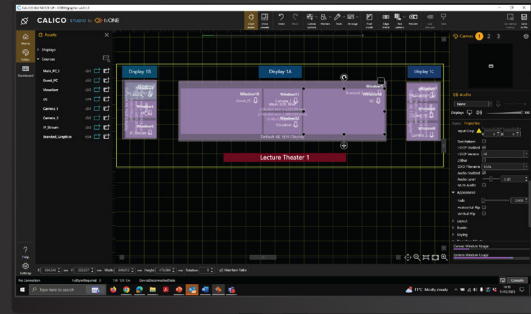


## EDID MANAGER

Poor EDID implementation can lead to frustrations with device synchronization. CALICO PRO automatically manages EDID communications with additional support for nonstandard or unique EDIDs with the integrated EDID manager.



# CALICO | STUDIO



## POWERFUL AND EASY TO USE SETUP AND CONTROL SOFTWARE

CALICO Studio is the highly intuitive, powerful design software for CALICO PRO. It is easy to configure single or multiple outputs for Direct View LED or create extensive projector edge blends and display walls – you choose! Position and rotate sources and displays with complete freedom and 360° rotation, including borders, dissolves, fades, and animations. Optimized for complex LED set ups, CALICO Studio offers customizable grid lines and snapping tools together with markers and labels for easy asset identification.



 **Derrick Rubin**



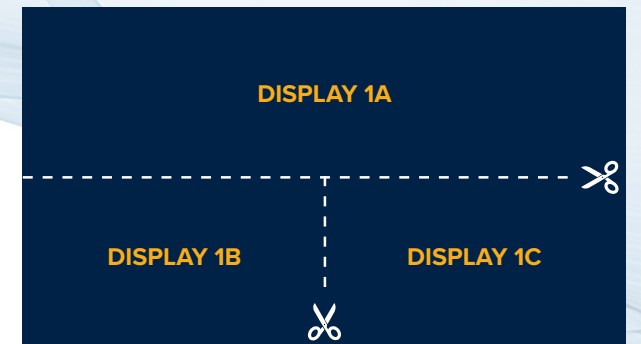
## CANVAS WATCH

Easily monitor your expansive LED, edge-blended projection, or display set-ups with ease for complete peace of mind. Watch multiple layouts from any canvas using a single display or multiple displays. Combine with packaged outputs to deliver multiple watched areas to a single display.



## ADVANCED CROPPING


With CALICO PRO, easily cut multiple sections from any source. In retail, take individual web page elements and reposition them on your canvas or for a small control room, split multiplexed camera feeds into individual camera views.



## OUTPUT MAPPING

LED controllers work best with standard resolutions. CALICO PRO can reposition pieces of a display in a real-world view, ready to place your content in a visually correct position. CALICO then automatically repackages a single output ready for the LED wall controller. Maximize your CALICO outputs, remove complex cabling, and the need for multiple LED controllers.





**Patented** video processing  
**FPGA** based system  
**More** efficient, **more** flexible  
Expandable product architecture

**CALICO**

### **CUSTOM AND OEM PRODUCTS**

If your company has a unique application that could benefit from CALICO technology, we are experienced in providing custom products. Please contact us for more information and to discuss your requirements.

### **WANT TO KNOW MORE?**

To discuss CALICO for any of your future installations, please contact your regional sales manager. Get in touch today!