

Specifications	MX6000 Pro
Loading capacity	141 Million pixels
Maximum Width & Height	Maximum width: 8,192 pixels; Maximum height: 7,680 pixels
Input	HDMI2.0×4 / DP1.2×4 / 12G-SDI×4 (will be achieved in Q3 of 2023) HDMI2.1×2 / DP1.4×2 / SMPTE2110×1 (will be achieved in Q3 of 2023)
Output	4 × 10G OPT / 1 × 40G OPT
Control Method	1G Ethernet, TCP/IP
Layers	Single output card supports 4 independent 4K layers (up to 32×4K layers are supported)
Genlock	Tri-level, Bi-level / Black burst
Input bit depth	12bit / 10bit / 8bit
Adaptive frame rate	23.98 / 24 / 25 / 29.97 / 30 / 47.95 / 48 / 50 / 59.94 / 60 / 72 / 75 / 100 / 119.88 / 120 / 143.86 / 144 / 240Hz (*Exclusively supported by A10s Pro and CA50E)
No rectangle limitation	Support
3D	Support
HDR	Support (HDR10 / HLG)
Low Latency(<1ms)	Support
Image Booster 2.0	Support (*Exclusively supported by A8s-N, A10S Pro and CA50E)
Dynamic Booster 2.0	Support (will be achieved in Q3 of 2023)
Brightness Overdrive	Support (*Exclusively supported by A10s Pro)
Multi Mode	Support (*Exclusively supported by A10s Pro)
Multi Layer Full Grayscale Calibration	Support (*Exclusively supported by A10S Pro或CA50E)
Thermal compensation	Support (*Exclusively supported by A10S Pro或CA50)

CREATIVITY UNLEASHED



MX6000 Pro  
8K Modular Designed LED Processor

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# CREATIVITY UNLEASHED

MX6000 Pro is a powerful processor from NovaStar's COEX product family, which is designed for professional LED display applications. With 6U size chassis, modularized design, it can carry up to 4 8K giant screens easily. Being equipped with rich sub-card groups, single interface 8K input, up to 32 real 4K layers, 128 presets could be easily set up and managed.

The device uses all-optical port output, compatible with 1G and 5G series receiving cards. Combined with the vision management platform VMP, it provides a minimalist control experience and easily holds large scenes. What you see is what you get.





# STRONG

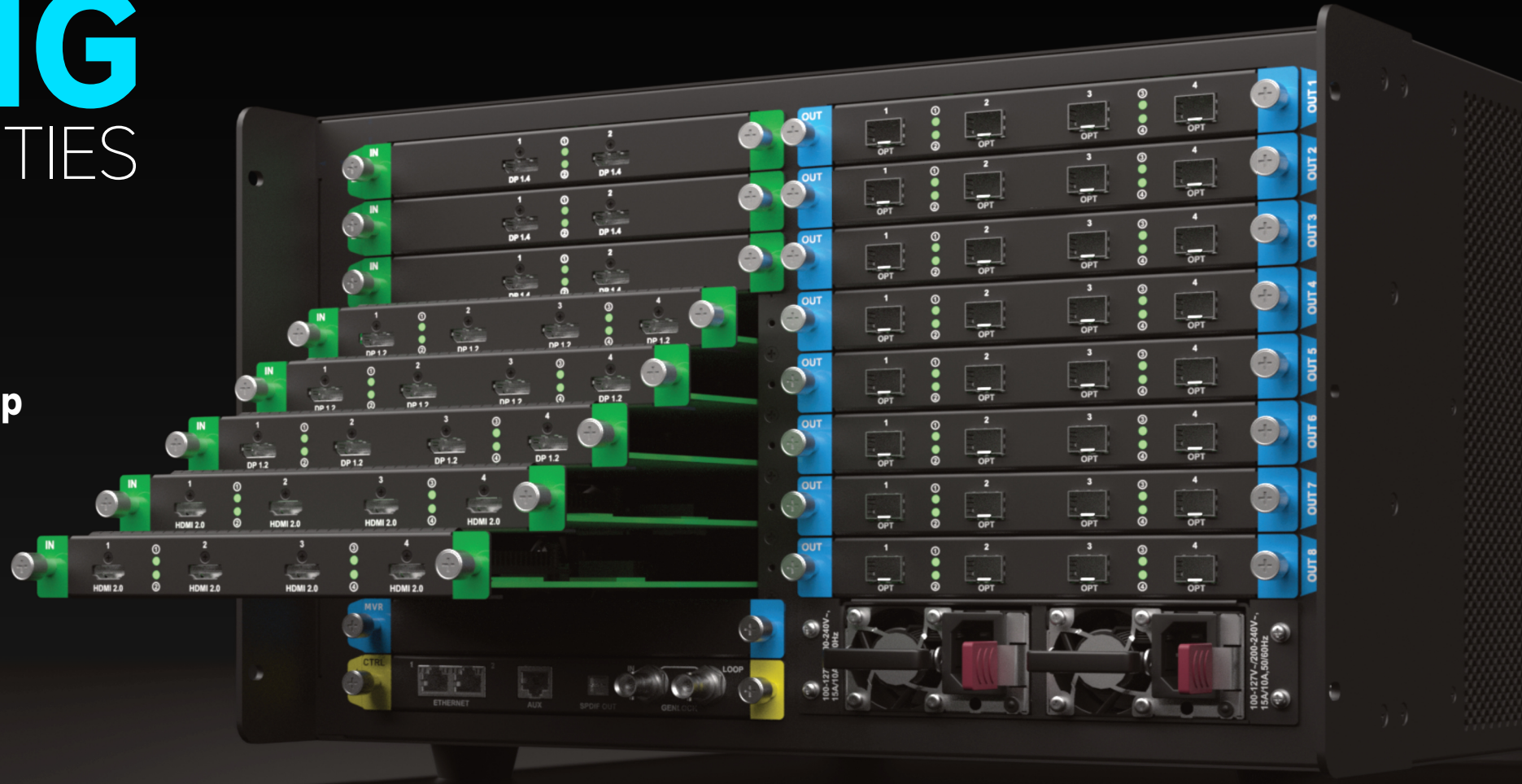
MORE POSSIBILITIES



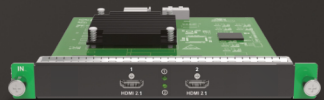
## Rich I/O Sub-card Group

Flexible expansion,  
customized configuration

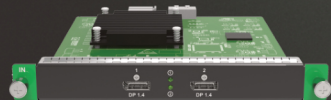
MX6000Pro is equipped with HDMI2.1, DP1.4, 12G-SD, 40G QSFP and many others abundant input and output sub-card groups, providing flexible expansion, on-demand selection. Meanwhile, for the post-maintenance, it only needs to replace the sub-card, simple and easy.



\* 1G and 5G sub-card are not supported to use together



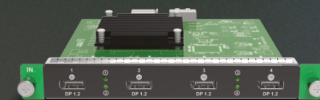
HDMI2.1x2



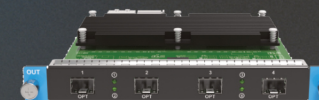
DP1.4x2



HDMI2.0x4



DP1.2x4



10G OPTx4



40G OPTx1





## All optical Port Transmission

4 “8K” huge screen, all handled by ONE unit

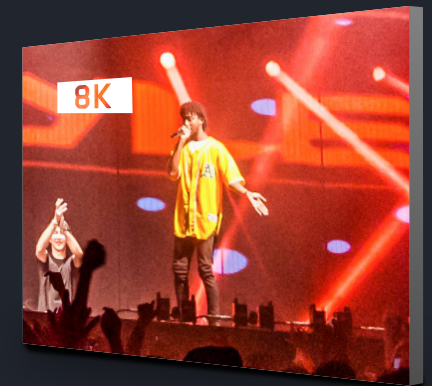
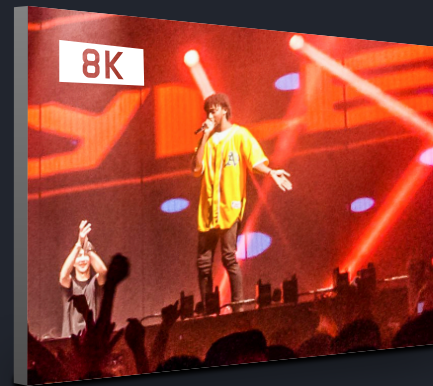
Single port 8K, 4 channels of 4K@60Hz input of 1 sub-card, up to 32 channels of 4K or 16 channels of 8K signal access at the same time. 4x10G and 1x40G optical port output sub-card is optional, and the optical converter is combined with the receiving card transmitted by 1G (Amors series) or 5G (CA series). Greatly simplified Large-scale event site wiring scheme, easy to achieve stable transmission for ultra-long distance.



## 32 4K Layers in any Layout

Move and zoom as you want

32 real 4K layers, which are able to roam freely across sub-cards in the multi-screen or large-screen scene. Each layer supports customized scale, interception and other layer effects. To simplify the operation, layout as your wish.



## 128 Preset, smooth switching by one click

Show the performances of incomparable brilliance

Up to 128 scene presets, according to different scene display requirements, set and save the layer in advance. The display content, effect and other display parameters, could be one-click set during application, which makes the flexible switching.



**MX6000 Pro**

40G×1  
10KM long distance transmission

**CA50E**



**CVT8-5G**





# SIMPLE

## MORE EFFORTLESS



### Group Management for Multi-screen

For mega events, intuitive operation

Group management for Multi-screen or large screen, set the management area by group, flexibly build and set up the LED screen. For multi-screen large scene, all screen information is at a glance on VMP software. All handled by ONE unit.

The screenshot displays the VMP software interface with a dark theme. At the top, a menu bar includes 'Project', 'Edit', 'View', 'Tool', 'Setting', and 'Help'. Below the menu is a 'Device List' section with a search bar and a list of devices organized into groups: 'Central wall' (MX6000 PRO-1, MX6000 PRO-2), 'Left wall' (MX6000 PRO-3), 'Right wall' (MX6000 PRO-4), and 'Top wall' (MX6000 PRO-5). To the right of the device list is a 'Curve' panel with a graph showing color calibration curves for 'R/G/B/W' channels. Below the graph are 'Input' (131) and 'Output' (241) fields. At the bottom is a '3D LUT' panel with a toggle switch and a dropdown menu set to 'CyberPunk.CUBE', with an 'Intensity' slider at 100%.



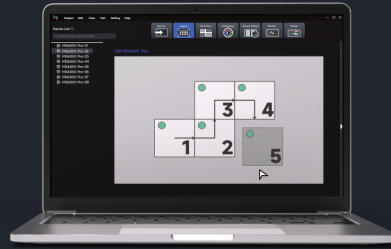
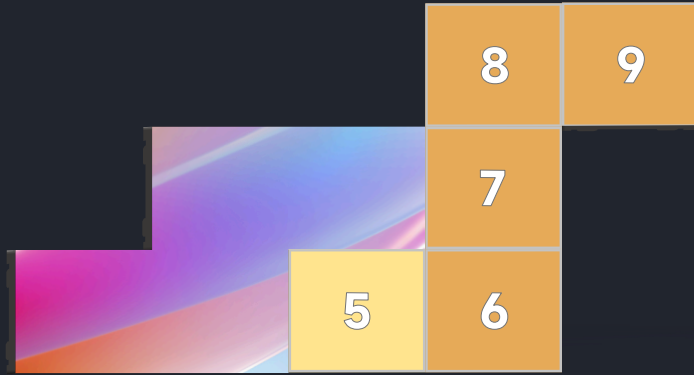




## Interactive Mapping

Smart mapping, real-time guidance

Interactive mapping. On the VMP software interface, the cabinet blinks for active guiding for user to configure the screen, so that the user can quickly complete the large-screen configuration without knowing the connection of the display.



\*配合CA50E



## Visualized Seam Correction

One click to eliminate, stay focus on the scene

Locate the dark line and bright line on the screen by cursor, select the display area that needs to be adjusted, and the seams will be pointed and eliminated.



## Real-time On-screen Status

Input source preview and output source echo, display status monitored in real-time

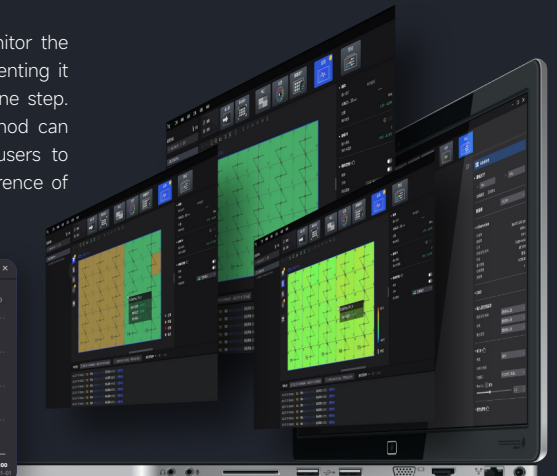
No additional monitor is required, the status of the input source and the content displayed on the screen could be known by VMP in real time, and can be quickly and accurately switched between different signal sources to ensure safe and smooth playback.



## Intelligent Monitoring System

Identify the defects accurately, solve the problem quickly

The intelligent monitoring system can monitor the whole link of the LED screen display, presenting it in a visual way, and locating the fault in one step. The leading bit error rate monitoring method can predict the risk point of failure, prompt users to intervene in advance, and block the occurrence of problems from the source.





# SPLENDID

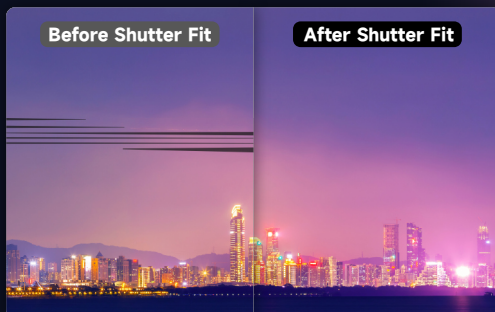
## MORE REALISTIC



### For Virtual Production

Capture every frame perfectly

Through Genlock Phase Offset, Shutter Fit and other technologies, the LED screen and the camera are perfectly synchronized, solving the problem of dark lines, scan lines and image tearing in the process of camera shooting LED screen, so that the camera can capture the most perfect picture.







## Adaptive Frame Rate

smooth and clear without any flicker

It automatically adapts video input with different frame frequency range of 23Hz to 240Hz, supporting custom frame frequency, and the step precision can reach 0.01Hz. Supporting frame insertion and frequency multiplication at the same time, experience the smooth shooting.



## Professional color correction tools

Creative without capping



**Original**

**After 3D LUT**  
TRITANOPE.CUBE

▼ Curve

Channel: R/G/B/W

Color Correct:  ↻ ⬆

	H(%)	S(%)	B(%)
Red	47	58	73
Orange	-56	-35	-60
Yellow	0.0	0.0	0.0
Lime	0.0	0.0	0.0
Green	0.0	0.0	0.0
Turquoise	0.0	0.0	0.0
Cyan	0.0	0.0	0.0
Cobalt	-35	-26	-27
Blue	-56	-35	-60
Violet	0.0	0.0	0.0
Magenta	0.0	0.0	0.0
Crimson	0.0	0.0	0.0
	R(%)	G(%)	B(%)
Magenta	0.0	0.0	0.0
Crimson	0.0	0.0	0.0

Input: 131    Output: 241

3D LUT

CyberPunk.CUBE  
Cyberpunk, from night

Intensity:

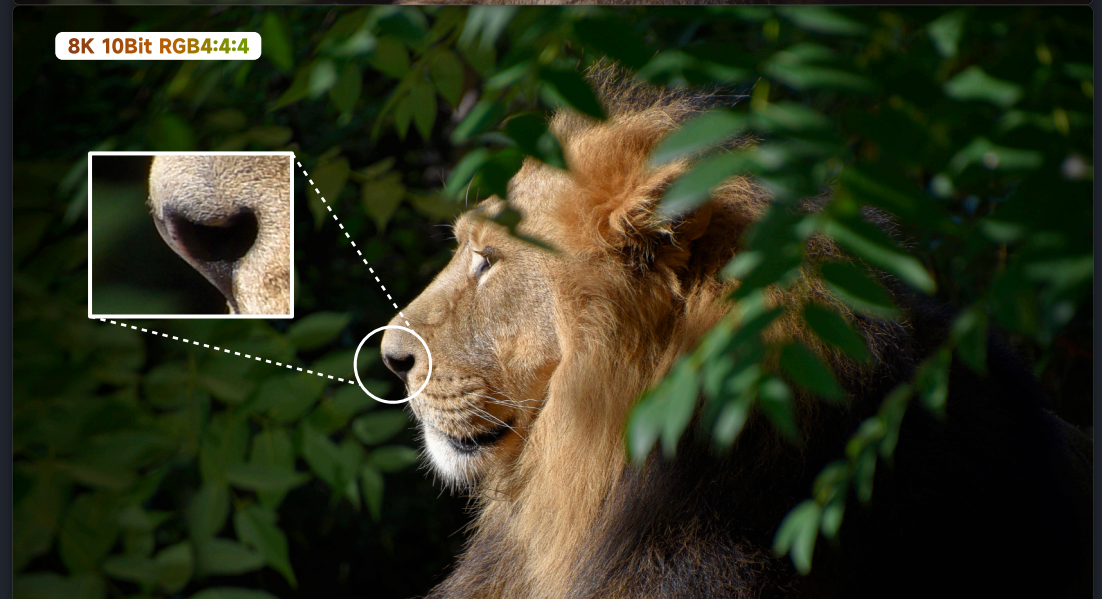
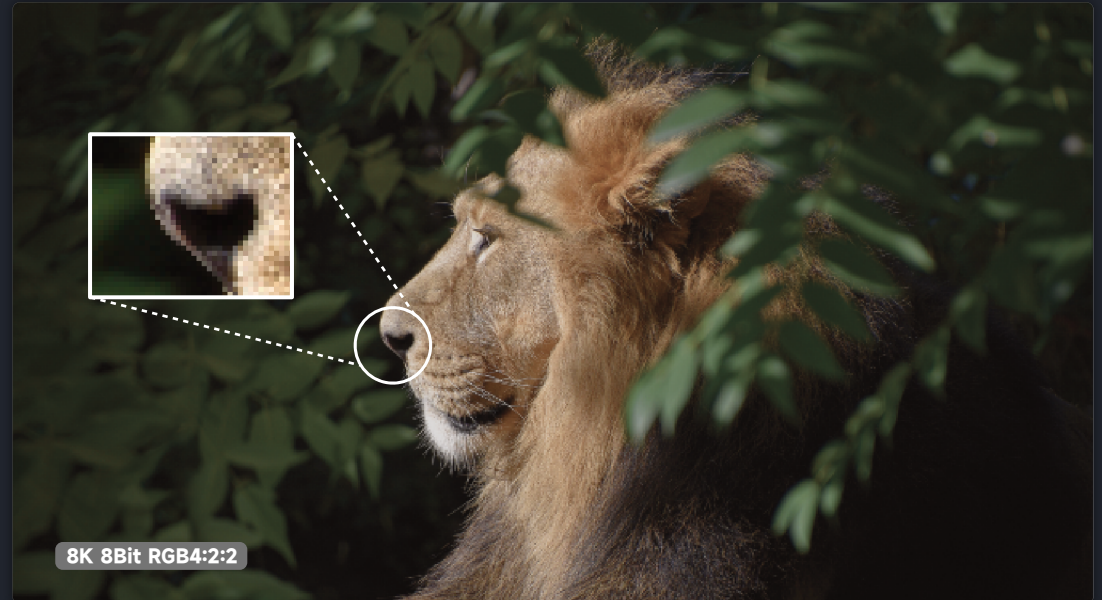


# Pixel-perfectionist

Light and Shade, precisely pixel control



# High quality 8K display





# BE MORE PROFESSIONAL, FOR EVERY BIG SCENE

MX6000 Pro has high integration, powerful performance, minimal control, ultra-high image quality and other features, can be used in xR/Virtual Production studios, Broadcasting display, E-Sports, Large performances and other professional LED display application scenarios. It provides more streamlined and extreme control system solutions for LED ultra-large screen applications.

## Virtual Production



## Broadcasting



## E-Sports



## Large performances

