

E2

Full-sized Event Master processor



- Full show control in a single box
- Native 4K input and output supported
- Intuitive user interface

Raising the bar for live screen management, the E2 presentation system provides superior image quality, exceptional input and output density, great expandability and durability. Supporting native 4K input and output, it was the first screen management system to manage 4K projector blends with refresh rates up to 60Hz with full 4:4:4 color sampling and 12bit processing. A truly versatile system, it offers eight mixable PGM outputs and four scaled Aux Outputs for full show control with a single box. The E2 can be linked with multiple other E2 chassis to create extremely large pixel processing canvases, to support the largest displays available.

Native 4K input and output

With native 4K@60p input and output, the E2 provides impressive pixel processing power. Whether native or scaled inputs, single cable 4K60p, two connectors or four, this HDCPcompliant system manages it all. With up to 32 inputs and 16 outputs, the E2 system offers full screen control. The E2 can support 32 HD pips or 8 4K pips. The layers can be configured to support a mixture of HD and 4K resolutions maximizing your system flexibility. Thanks to its linkable chassis, it can easily expand beyond the capabilities of a single box without the need for additional external processing and matrix routing to distribute the signals. Currently the linking in E2 supports up to eight processors for a total of 32 4K program outputs, with the possibility of more in the future.

Simple servicing and control

The E2 comes with a straightforward cross-platform user interface that provides touchscreen ergonomics. As the presets are stored on the chassis it enables easy control via third-party systems. Multiple users can control the system



simultaneously, and the API allows third-party developers to create custom control programs and interfaces. Thanks to its modular design, users can simply add a new input or output card to support future signal interfaces. This modularity also ensures great serviceability, as users can easily swap a specific input or output card in the case of damage, without needing to ship or replace the entire box.

Designed for life on the road

Designed for the live event industry, the rugged E2 features a steel chassis that's able to withstand the challenging conditions of life on the road. What's more, it offers screen control in a compact form factor of only four rack units, which makes it easy to ship and install. And thanks to its modular cards and dual redundant power supplies, the E2 is extremely reliable and easy to service in the field.

Layers, layers, layers

The E2 offers an extremely flexible layer management system. The E2 starts with a pixel perfect, full resolution, unscaled background layer that is the same resolution as the screen destination. As an unscaled mixing background layer it does not use any of the valuable scaling layers. With up to 32 layers available in HD, the E2 can customize the layer configuration to meet the needs of your application. The layers provide either pip or key effects, and can be configured for HD, Dual Link (2560x1600 or 3840x1200 max), or 4K resolutions. Each destination gets dedicated layers, so you know exactly how many resources are available. The layers can also be configured as single layers with cut transitions, or two of the scalers can be combined to create a mixing layer. Each destination can support a combination of mixers, single layers, pips, keys, and various sizes of layers, all to create a single composited image on the screen.

Inputs

8x Input card slots supporting up to 4K resolution per slot.
Each card slot accommodates either 4x HD inputs, 2x 2,560 x 1,600 inputs, or 1x 4K input.

HDMI/DisplayPort input card

- 2x HDMI 1.4 connectors
- 2x DisplayPort 1.1 connectors
- 4x BNC connectors supporting 3G SDI
- 2x BNC connector (Input and loop output)
- Supports Black burst and trilevel analog signals

Outputs

4x Output Card slots for PGM screens and Auxes that support up to 4K resolution per slot. MVR is supported by the last slot to the right.

HDMI output card

- 4x HDMI 1.4
- 4x BNC connectors supporting 3G SDI

Rental configuration will include:

- 14 Outputs via 4 Output cards
 - Up to 3 x 4K Outputs - each Output card supports up to 4K@60 out
- Up to 3 x 4K Outputs - each Output card supports up to 4K@60 out
 - 4 x SD/HD/3G SDI
- 4 x SD/HD/3G SDI
 - 8 x HDMI 1.4 (297 Mpix/sec max)
- 8 x HDMI 1.4 (297 Mpix/sec max)
 - 2 x HDMI 1.4 for Multiviewer (297 Mpix/sec max)
- 2 x HDMI 1.4 for Multiviewer (297 Mpix/sec max)
- Outputs configurable as single screens or tiled/blended widescreens. Outputs can also be configured as Scaled Auxiliary outputs.



User interface

- GUI based configuration and control application
- Cross platform (Mac/Windows)

Processing and latency

12 bits/color

36 bits/pixel

1 frame processing latency for progressive genlock sources

PIP layers (per chassis)

- 2K mode: 16 seamless mixable PiPs or key overlays
- DL mode: 8 seamless mixable PiPs or key overlays
- 4K mode: 4 seamless mixable PiPs or key overlays

Background mixer

- Any live input type can be a background source
- Matte color generator
- Still store as background

Destinations (single chassis)

Program screens

- 4K Output
 - 2x single screens
- 2x single screens
 - 1x blended (2 outputs)



- 1x blended (2 outputs)
- Dual Link output
4x single screens
- 4x single screens
2x blended
- 2x blended
- HD (2K) Output
8x single screens
- 8x single screens
4x 2 output blended (2 output per blend) up to 1x 8 output blended
- 4x 2 output blended (2 output per blend) up to 1x 8 output blended

More than eight outputs can be assigned to a screen destination, provided they are positioned inside the processing canvas.

Auxilliary Outputs

User definable from 4 x 2,048 x 1,200@60 to 1 x 4K@60 per output card

4K output

- 1x Scaled Aux output
- 2x Scaled Aux output

HD (2K) output

- 4x Scaled Aux output

MVR supports 2x HD outputs displaying all inputs and outputs available to the chassis.

Still stores

User-assigned still stores

- Live capture
- Import and export via PNG file

Presets

1,000 user definable presets

Expandability

8x E2 chassis per system

4K output

- Up to 32 4K outputs

Dual Link output

- Up to 64 DL outputs

HD (2K) output

- Up to 128 HD outputs

Up to 48 HD inputs can be shared globally in a system linked for input expansion. Processors also have access to their local sources.



Chassis

4RU

Dual Redundant PSU

Modular field swappable processing and I/O cards

Variable flow cooling

Rugged steel chassis

ESPECIFICAÇÕES TÉCNICAS**E2**

Model	NGS-4U
Tela de efeitos ao vivo	PVW/PGM de até 20 megapixels PGM de 40 megapixels somente 80 megapixels a 30p e PGM somente
Entradas de vídeo	32 entradas via 8 placas de entrada (placas da série Event Master) <ul style="list-style-type: none">■ Até 8 entradas de 4K - cada placa de entrada oferece suporte para até 4K a 60p■ 12 x SD/HD/3G SDI■ 10 x HDMI 1.4a (297 Mpix/s máx)■ 10 x DisplayPort 1.1 (330 Mpix/s máx)
Saídas de Vídeo	14 saídas via 4 placas de saída (placas da série Event Master) <ul style="list-style-type: none">■ Até 3 saídas de 4K - cada placa de saída oferece suporte para até 4K a 60p■ 4 x SD/HD/3G SDI■ 8 x HDMI 1.4a (297 Mpix/s máx)■ 2 x HDMI 1.4a para Multivisualizador (297 Mpix/s máx)
Sincronismo (Genlock)	Entrada/loop de referência analógica em conectores BNC; dois níveis e blackburst no SD e três níveis no HD Sincronização com S3D: 4x conectores Din de entrada, 2x conectores Din de saída
Saída do programa	Até 16 saídas de programa configuráveis como telas únicas ou widescreens combinadas/em bloco (pré-visualização e Multivisualizador não estão disponíveis em todas as configurações) -Configurável até 16 x 2048 x 1200 a 60 ou até 4 x 4096 x 2400 a 60 -Combinação de arestas independente/controle de suavização em todos os quatro lados
Saídas auxiliares escaladas	Definível pelo usuário até 16 x 2048 x 1200 a 60 ou até 4 x 4K a 60. Todas as saídas podem ser definidas como destinos Aux para um total de 16 saídas Aux. Correção de cores de saída (pré-visualização e Multivisualizador não estão disponíveis em todas as configurações)
Mixadores	Definível pelo usuário até 16 x 2048 x 1200 a 60 ou até 4 x 4K a 60. Todas as saídas podem ser definidas como destinos Aux para um total de 16 saídas Aux. Correção de cores de saída (pré-visualização e Multivisualizador não estão disponíveis em todas as configurações)
Still stores	Até 100 HD ou 25 UHD, dependendo do tamanho de arquivo importado.
Efeitos em camada	<ul style="list-style-type: none">■ Bordas (rígidas, suaves, halo) e sombreamento■ Efeitos de cor■ Estroboscópio, gira na horizontal e vertical■ Teclas Luma, Chroma e Cut/Fill (nem todos os modos são compatíveis com inserção)■ Movimentos de PIP via Keyframes
Multivisualizador	<ul style="list-style-type: none">■ Layouts flexíveis definidos pelo usuário■ Monitore todas as entrada e saídas, incluindo pré-visualização e auxiliar■ Duas saídas■ Hardware dedicado igual ao dos Processadores Event Master E2

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Capacidade de expansão	<ul style="list-style-type: none">■ Fácil expansão para aplicações de visor maiores através de vínculos proprietários■ Vincula unidades para aumentar o número entradas e saídas disponíveis em aplicações widescreen em blocos/combinadas■ Expansão através de vínculo simples - até 8 chassis■ O E2 vem com a capacidade para se vincular a 8 chassis para expansão.
HDCEP	Conformidade com HDCEP determinada pelas placas instaladas.
Controle	<ul style="list-style-type: none">■ Software de gerenciamento de tela Event Master para computador ou MAC■ Controladores Event Master■ WebUI■ Ethernet RJ-45, 1000/100/10 Mbps, detecção automática PC
Facilidade de manutenção	<ul style="list-style-type: none">■ E/S com manutenção em campo e placas de processamento (sem hot swap)■ Fontes de alimentação redundantes duplas com hot swap
Nível de Ruído	Máx. 52,9 dB em média. Ventoinhas a 100%. A velocidade da ventoinha é controlada por software com base na temperatura operacional. Referência ISO 7779
Dimensões	<ul style="list-style-type: none">■ Altura: 17,8 cm (7,0 pol.) - montagem em rack de 4 RU■ Largura: 43,2 cm (17 pol.), sem alças de chassi, 48,3 cm (19 pol.) com alças de chassi conectadas■ Profundidade: 56,9 cm (22,4 pol.) do painel frontal ao painel traseiro, 62,2 cm (24,5 pol.) no total
Peso	31 kg/68 lbs
Energia	<ul style="list-style-type: none">■ Energia de entrada: 100-240 VCA 50/60 Hz 826 W■ Vem com fontes de alimentação redundantes duplas, com hot swap
Garantia	Três anos para peças e mão de obra
Temperatura ambiente	0 a 40 °C/32 a 104 °F
Umidade do Ambiente	0 a 95% sem condensação

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