

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 up to 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 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.

PRODUCT SPECIFICATIONS

E2

Genlock	Analog reference input/loop on BNC connectors; bi-level and blackburst at SD and tri-level at HD S3D Sync: 4x input Din connector, 2x output Din connector
Program output	8 program outputs configurable as single screens or tiled/blended widescreens <ul style="list-style-type: none">Configurable from 8x 2048x1200@60 max to 2 x 4096x2400@60 maxIndependent edge blending/feathering control for all four sides
Scaled Aux outputs	User definable from 4 x 2048x1200@60 to 1 x 4K@60 All outputs can be defined as Aux destinations for a total of 12 Aux outputs Output color correction
Mixers	<ul style="list-style-type: none">Native resolution background mixer per output screenIndependent layer transitions or full Preview/Program transitionFlexible layer allocation – up to 16 mixable or 32 single scalable PIP/key layers assignable to Program output screens
Video inputs	28 inputs via 8 input cards (Event Master series cards) <ul style="list-style-type: none">Up to 8 x 4K inputs - each input card supports up to 4K@60p8 x SD/HD/3G SDI (6G ready)8 x HDMI 1.4a (297 Mpix/sec max)8 x DisplayPort 1.1 (330 Mpix/sec max)4 x Dual Link DVI (330)
Video outputs	14 outputs via 4 output cards (Event Master series cards) <ul style="list-style-type: none">Up to 3 x 4K outputs - each output card supports up to 4K@60 p4 x SD/HD/3G SDI (6G ready)8 x HDMI 1.4a (297 Mpix/sec max)2 x HDMI 1.4a for Multiviewer (297 Mpix/sec max)
Still stores	Up to 100 HD stills available in background, Aux or PIP
Layer effects	<ul style="list-style-type: none">Borders (hard, soft, halo) and drop shadowsColor effectsStrobe, H&V flipLuma keyPIP moves via Keyframes
Multiviewer	<ul style="list-style-type: none">Flexible user-definable layoutsMonitor all Inputs and Outputs, including Preview and AuxTwo outputsDedicated hardware same E2 Event Master Processors
Expandability	<ul style="list-style-type: none">Easily expandable for larger display applications via proprietary linksLink units to increase available Inputs and Outputs for larger tiled/blended widescreen applicationsExpansion via simple linking - up to 2 chassisE2 ships with the ability to link 2 chassis for expansion. Linking additional chassis will be available in a future software release.
HDCP	HDCP compliant
Control	<ul style="list-style-type: none">Event Master screen management software for PC or MACEthernet RJ-45, 1000/100/10 Mbps autosense
Serviceability	<ul style="list-style-type: none">Field-Serviceable I/O and processing cards (not hot-swappable)Hot-swappable dual-redundant power supplies
Dimensions	<ul style="list-style-type: none">Height: 17.8 cm (7.0 in) - 4 RU rackmountWidth: 43.2 cm (17 in) without chassis handles, 48.3 cm (19 in) with chassis handles attachedDepth: 56.9 cm (22.4 in) from front panel to rear panel, 62.2 cm (24.5 in) overall
Weight	31 kg / 68 lbs

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Power	<ul style="list-style-type: none">■ Input power: 100-240 VAC 50/60Hz 700W■ Dual-redundant, hot-swappable power supplies
Environmental temperature	0-40° C / 32-104 F
Environmental humidity	0-95% non-condensing
Warranty	3 years parts and labor

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Technical specifications are subject to change without prior notice. Please check www.barco.com for the latest information.