

# E2 Gen 2 BTO

Full show control in a single box



- Design your own configuration at standard pricing
- Fully modular in cost and capacity
- Upgrade without costly re-installation and programming
- Link up to 8 x E2 systems to create max number of 384 (48x8) input connectors & 192 (24x8) output connectors

Build your own configuration of processing and input / output

- Design your own configuration of input, output and processing cards with all the standard features
- Choose input capacity
- Choose output capacity
- Choose layer capacity
- 1 to 8 chassis in a system

Event Master E2 / S3 and EX have standard, finished and stocked configurations. But as it's a scalable and modular system, it's also available as BTO "Build To Order" systems. From a single chassis with as few as two cards, or up to eight chassis with every card included, the Event Master is the most scalable and I/O dense screen management system in the world. Whether you need several single units with a special I/O configuration or a system with massive routing and scaling capacity, you can use the Build To Order process to get what you prefer. Build a unique system with growing capabilities that does not require complete re-installations or even re-programming.

Use the fiber links up to 300m distance between units to distribute high-end video with no additional latency or compression. Extend



a full chassis or use the EX chassis to extend up to eight 4K outputs and/or up to eight 4K inputs. All the normal high standards of redundant power, 12Bit 4:4:4 processing and I/O, Genlock, down to 15ms latency from the fixed configurations are included as the systems use the same hardware and software.

Supported by no less than three APIs the Event Master system can be integrated with popular, if not all control systems on the market. A flexible control system is included and allow commands sent to third party devices over network for simple and integrated integration.

System design support is available for multi-unit systems worldwide via Barco Partners connection with Barco Product Specialists.

**Product specifications****E2 GEN 2 BTO**

Inputs	
Outputs	
General specifications	
<b>Model</b>	NGS-4U-V2
<b>Live effects canvas</b>	<p>10 to 160 Megapixels @60p PVW/PGM            20 to 320 Megapixels @60p PGM only            40 to 640 Megapixels @30p and PGM only            Native resolution background mixer per screen canvas            Use multiple video backgrounds without the use of layers</p>
<b>Video inputs</b>	<p>1 to 64 inputs cards</p> <ul style="list-style-type: none"> <li>■ 4 - 384 FHD / 4 - 256 4K/UHD30 inputs</li> <li>■ 2 - 128 4K/UHD60 inputs</li> <li>■ SDI: 4 to 256 SD/HD/3G and/or 1 to 64 6G/12G</li> <li>■ HDMI 2.0: 2 to 128 (600MHz max) &gt;8/10/12Bit 4:4:4</li> <li>■ DisplayPort 1.2: 4 to 128 (660 MHz max) &gt;8/10/12 Bit 4:4:4 Q10</li> </ul>
<b>Video outputs</b>	<p>1 to 32 output cards</p> <ul style="list-style-type: none"> <li>■ 4 to 192 FHD / 4 - 128 4K/UHD30 outputs</li> <li>■ 2 to 64 4K/UHD outputs</li> <li>■ SDI: 2 to 128 SD/HD/3G and/or 1 to 32 6G/12G/2Si</li> <li>■ HDMI 2.0: 2 to 128 (600MHz max) &gt;8/10/12Bit 4:4:4</li> <li>■ DisplayPort 1.2: 2 to 128 (660 MHz max) &gt;8/10/12 Bit 4:4:4</li> </ul>
<b>Genlock</b>	<p>Analog reference input/loop on BNC connectors;            Tri-level and Blackburst at SD and tri-level at HD            S3D Sync: 4x input Din connector, 2x output Din connector *</p>
<b>Program output</b>	<p>Up to 128 program outputs on one or several Screens</p> <p>Data double and AOI per output, blend curves independent per edge of output</p> <p>Configure creative screen systems with single screens, tiled/blended widescreens</p> <p>Grouped connectors for legacy connections like Quad SDI</p>
<b>Scaled Aux outputs</b>	<p>Use inputs and outputs for standard videowall scaling matrix functionality            Scale any HD to UHD/4K source to any size Super AUX Screen            Does not use layers or canvas resource            All figures below @HD60FPS or 4K30FPS</p> <ul style="list-style-type: none"> <li>■ 4 to 384 Inputs in steps of 4 or 6</li> <li>■ 4 to 192 Outputs in steps of 4 or 6</li> <li>■ 1 to 192 individual HD/4K30 screens with Full Screen content</li> <li>■ 1 - 64 single 4K screens to a single 262144 x 2160 Super Screen</li> </ul>
<b>Mixers</b>	<ul style="list-style-type: none"> <li>■ Independent layer transitions or full Preview/Program transition</li> <li>■ 4 to 192 FHD Picture In Picture</li> <li>■ 4 to 64 UHD/4K Picture In Picture</li> <li>■ Flexible layer allocation per Screen</li> </ul>
<b>Still stores</b>	<p>Up to 100 HD or 25 UHD, depending on the import file size.</p>
<b>Optional multiviewer and preview</b>	<p>Standard Event Master HDMI 2.0 output card doubles as dedicated multiviewer hardware</p> <p>Monitor all inputs and outputs, including Preview and Aux</p> <p>4x FHD or 1x 4K/UHD Outputs</p> <p>4x Flexible user-definable layouts showing up to 64 inputs and 64 outputs</p>

## Product specifications

## E2 GEN 2 BTO

Layer effects	<ul style="list-style-type: none"><li>■ Borders (hard, soft, halo) and drop shadows</li><li>■ Color effects</li><li>■ Strobe, H&amp;V flip</li><li>■ Luma, chroma and Cut/Fill keys (not all modes support keying)</li><li>■ PIP moves via Keyframes</li></ul>
Expandability	<p>System scales capacity with Framerate and Resolution</p> <p>All figures below @HD60FPS or 4K30FPS</p> <ul style="list-style-type: none"><li>■ 4 to 384 Inputs in steps of 4 or 6</li><li>■ 4 to 192 Outputs in steps of 4 or 6</li><li>■ 4 to 192 individual HD/4K30 screens</li><li>■ 1 – 64 single 4K screens to a single 262144 x 2160 Super Screen</li><li>■ 2 to 128 Input in steps of 2</li><li>■ 2 to 64 outputs in steps of 2</li><li>■ 1 to 64 individual HD/4K30 screens</li><li>■ 1 – 32 single 4K screens to a single 131072 x 2160 Super Screen</li></ul>
HDCP	HDCP compliance determined by installed cards.
Control	<ul style="list-style-type: none"><li>■ Event Master screen management software for Windows, MAC and Linux OS</li><li>■ Event Master controllers</li><li>■ WebUI</li><li>■ Ethernet RJ-45, 10/100/1000 Mbps autosense,</li><li>■ Telnet API</li><li>■ JSON API</li></ul>
Serviceability	<ul style="list-style-type: none"><li>■ Field-Serviceable I/O and processing cards (not hot-swappable)</li><li>■ Hot-swappable dual-redundant power supplies</li></ul>
Noise Level	Max 52.9 dB avg. Fans at 100%. Fan speed is software-managed based on operating temperature. Reference ISO 7779
Dimensions	<ul style="list-style-type: none"><li>■ Height: 17.8 cm (7.0 in) - 4-32 RU rackmount</li><li>■ Width: 43.2 cm (17 in) without chassis handles, 48.3 cm (19 in) with chassis handles attached</li><li>■ Depth: 56.9 cm (22.4 in) from front panel to rear panel, 62.2 cm (24.5 in) overall</li></ul>
Weight	31-248 kg / 68-544 lbs
Power	Input power: 100-240Vac, 50/60Hz, 12-5A (x2), 1,100 W per unit Dual-redundant, hot-swappable power supplies;
Environmental temperature	0-40° C / 32-104 F
Environmental humidity	0-95% non-condensing (non-operating) 0-85% non-condensing (operational)
Warranty	3 years parts and labor
Notes	<ul style="list-style-type: none"><li>* Some Advanced Features of a large system can require re-programming</li><li>* Preview and Multi-Viewer not available in all configurations</li><li>* Resource use retract from total capacity, max functionality per spec above might not be possible</li><li>* S3D functionality is dependent on a license and system sales process</li></ul>

## User control

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