

# S3 Tri-combo

Compact, expandable 4K60p Event Master processor



Featuring 14 inputs, 14 outputs, the S3 Tri-combo adds more capacity with Tri-combo input and output cards supporting up to 4K60p on a single cable. Under the hood it boasts the same processing performance, image quality, flexibility and durability as the S3-4K, the only difference being more Input and output capacity. In short: all the tools you need to create a stunning live experience, in a single compact and roadworthy housing.

## Powerful features, easy operation

- Pre-loaded with three I/O cards
- Interlinking of S3-4K chassis allows expansion of inputs, outputs or layers
- Easy step-by-step set-up with the cross-platform Event Master Toolset
- Serviceable in the field and ready for future signal interfaces
- Dual, redundant power supplies for maximum peace of mind
- Widescreen blending support

**PRODUCT SPECIFICATIONS****S3 TRI-COMBO**

<b>Model</b>	NGS-3U
<b>Live effects canvas</b>	Up to 20 megapixels in PVW/PGM or 40 megapixels in PGM only mode
<b>Video inputs</b>	14 HD inputs via 3 input cards (HDMI/DP combo 4 inputs, Tri-combo 6 inputs per card) <ul style="list-style-type: none"><li>■ Up to 4x 4K inputs - (HDMI/DP combo 1x 4K@60p, Tri-Combo 2x 4K@60p per card)</li><li>■ 4x SD/HD/3G/6G/12G SDI connectors (Tri-Combo card)</li><li>■ 4x HDMI 1.4a (297 MHz max)</li><li>■ 1x HDMI 2.0 (Tri-Combo card)</li><li>■ 1x DisplayPort 1.2 (Tri-Combo card)</li><li>■ 4x DisplayPort 1.1 (300 MHz max)</li></ul>
<b>Video outputs</b>	14 HD outputs via 3 output cards <ul style="list-style-type: none"><li>■ Up to 4x 4K outputs - HDMI output card supports 1x 4K60p, Tri-combo supports 2x 4K60p or 6x HD</li><li>■ TriCombo output card supports 4x SD/HD/3G/6G/12G, 1x HDMI 2.0, and 1x DisplayPort 1.2 connectors</li><li>■ 4x HDMI 1.4a (297 MHz max)</li><li>■ 2x HDMI 1.4a for Multiviewer (297 MHz max)</li><li>■ 4x HDMI 1.4a when used as standard output card</li></ul>
<b>Genlock</b>	Analog reference input/loop on BNC connectors; bi-level and blackburst at SD and tri-level at HDwbr /> S3D Sync: 4x input Din connector, 2x output Din connector
<b>Program output</b>	Up to 14 program configurable as single screens or tiled/blended widescreens (preview and Multi-Viewer not available in all configurations) Configurable for up to 14x 2048X1200@60 or up to 4x 4096x2400@60 Independent edge blending/feathering control for all four sides
<b>Scaled Aux outputs</b>	User definable for up to 14x 2048x1200@60 to 4x 4K@60 All outputs can be defined as Aux destinations for a total of 12 Aux outputs Output color correction
<b>Mixers</b>	<ul style="list-style-type: none"><li>■ Native resolution background mixer per output screen</li><li>■ Independent layer transitions or full Preview/Program transition</li><li>■ Flexible layer allocation – 4 mixable or 8 single scalable PIP/key layers assignable to any Program output screens</li></ul>
<b>Still stores</b>	Up to 100 HD or 25 UHD, depending on the import file size.
<b>Layer effects</b>	<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>
<b>Multiviewer</b>	<ul style="list-style-type: none"><li>■ Flexible user-definable layouts</li><li>■ Monitor all Inputs and Outputs, including Preview and Aux</li><li>■ Two outputs</li><li>■ Dedicated hardware same as E2 Event Master Processor</li></ul>
<b>Expandability</b>	Easily expandable for larger display applications via proprietary links Link units to increase available Inputs and Outputs for larger tiled/blended widescreen applications Expansion via simple linking to: 1x E2 or 4x EX chassis, or up to 7 more S3-4K chassis S3-4K ships with the ability to link 8 chassis for expansion

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<b>HDCP</b>	HDCP compliance determined by installed cards.
<b>Control</b>	<ul style="list-style-type: none"><li>■ Event Master screen management software for PC or MAC</li><li>■ Event Master Controllers</li><li>■ WebUI</li><li>■ Ethernet RJ-45, 1000/100/10 Mbps autosense</li></ul>
<b>Serviceability</b>	<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>
<b>Noise Level</b>	Max 51.3 dB avg. Fans at 100%.  Fan speed is software managed based on operating temperature.  Reference ISO 7779
<b>Dimensions</b>	<ul style="list-style-type: none"><li>■ Height: 13.26 cm / 5.22" - 3 RU rack mount</li><li>■ Width: 43.2 cm / 17" without chassis handles, 48.3 cm / 19" with chassis handles attached</li><li>■ Depth: 54 cm / 21.33" overall</li></ul>
<b>Weight</b>	24 kg / 53 lbs
<b>Power</b>	Input power: 100-240Vac, 50/60Hz, 8.8A (x2), 826 Watt Dual-redundant, hot-swappable power supplies
<b>Environmental temperature</b>	0-40° C (32-104° F)
<b>Environmental humidity</b>	0-95% non-condensing (non-operating) 0-85% non-condensing (operational)
<b>Warranty</b>	3 years parts and labor

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**Last updated: 13 Mar 2023**

Technical specifications are subject to change without prior notice. Please check [www.barco.com](http://www.barco.com) for the latest information.