

ACTUAL SIZE

nano 4K

VIDEO PROCESSOR

SACO NANO 4K PROCESSOR | CONTROLS

The NANO is SACO's video processing powerhouse using state-of-the-art electronics. It's designed to process and transmit high-speed video signals.

Based on SACO's proprietary V-Stream communication protocol, the NANO is fully integrated to SACO's line of video displays and video-enabled Shockwave light fixtures.

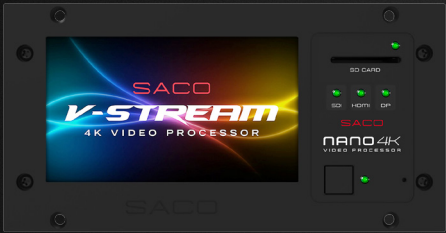
HD QUALITY	SACO's proprietary high-speed, high-resolution video pixel control.
DEEP COLOR	16-bit data sampling per channel for smooth gradients, with 65,536 shades per color. Extensive dynamic gamut of over a billion colors per pixel.
MODULAR	Supports up to three live inputs (switchable). Frame locking enables processor stacking, if feed stitching is needed.
PICTURE PERFECT	Built-in frame buffer for advanced live image enhancing functions. Resizing engine for image mapping perfection.

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FEATURES GUIDE



PHYSICAL	
CONSTRUCTION	Die-formed laser cut high grade 5052-H32 aluminum housing (0.063 “/ 1.6 mm) Machined high grade 6061-T6 aluminum face plate Black oxide steel hardware
MOUNTING	Mounts to a standard 19” rack cabinet mounting frame Compact footprint uses 2U (1/3 rack width)
FINISH	Durable polyester powder coating (housing) Black anodization (face plate)
WEIGHT	2.3lbs (1.0kg)
THERMAL	
OPERATING TEMP	32°F to 86°F (0°C to 30°C)
HEAT CONTROL	Forced air cooling by DC blower
ELECTRICAL	
INPUT VOLTAGE	100-250 VAC (50/60 Hz)
INPUT CURRENT	1.2A Maximum
POWER	55W Maximum
CONNECTORS	
POWER INPUT	Standard IEC C7 receptacle
DATA INPUT	1 x HDMI 2.0b input. Up to 4096 x 2160, up to 16-bit Deep Color, RGB and YCbCr supported. 1 x SDI 12G input. Up to 3840 x 2160 UHD SII format, 3G and HD supported. 1 x DisplayPort 1.2 input. Up to 4096 x 2160, up to 12-bit, RGB supported.
DATA OUTPUT	V-Stream data protocol with speeds up to 2.5 Gb/s 1 x dedicated V-Stream RJ45 receptacle 1 x SDI Output 12G, 3G and HD loop through 12 x Small Form Pluggable sockets (SFP) Supports up to 12 x Cat6 copper SFP adapters or 12 x LC duplex fiber optic SFP transceiver adapters

USER INTERFACE	
HARDWARE	4.3in touch-screen for feed and parameters monitoring LED status indicators
VIDEO PROCESSING ENGINE	
IMAGE RESIZING	Crop, position and scale video inputs to match screen aspect ratio
IMAGE ENHANCING	Auto-sensing color space converter for accurate color reproduction (SDI only) Black level, contrast, brightness
FILM MODE	Frame-lock function to synchronize video displays with the cameras
ACCESSORIES	
SACO DATA EXTENDER	Compact and flexible solution for long-run and multi-branch systems See specification guide for details
SFP ADAPTERS	Compatible with LC duplex optic fibre SFP transceivers Compatible with CAT6 copper SFP adapters
ADDITIONAL INFORMATION	
WARRANTY	5 years
ORIGIN	Designed and made in North America



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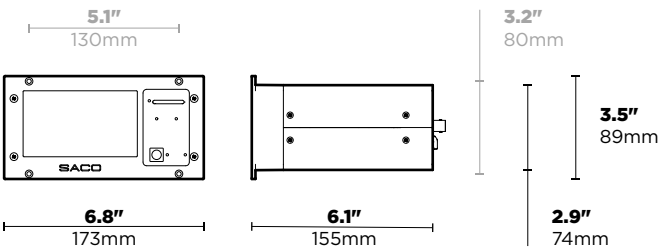
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SPECIFICATIONS GUIDE



(MOUNTING DIMENSIONS IN GREY)

PRODUCT ORDERING CODE

MODEL # % ` z %Z (! fl

GENLOCK # GL

DATA OUTPUT ADAPTERS

-- Please specify number of outputs to be fitted with SFP adapters (Max 12)

DATA OUTPUT ADAPTER TYPE

C

Cat6 copper SFP adapter ²

FS

Single mode LC duplex fiber optic SFP transceiver ³

FM

Multi mode LC duplex fiber optic SFP transceiver ⁴

²Maximum range up to 410ft (125m) for SACO video signal speeds.

³Maximum range over 1970ft (600m) depends of fiber type.

⁴Maximum range under 1970ft (600m) depends of fiber type.

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WIRING GUIDE



- 1 2U height 1/3 rack length
- 2 Touch panel for feed monitoring and easy command and control
- 3 SACO SD card slot for SACO support
- 4 Monitoring and status indicators

- 5 Multiprocessor stacking for unlimited feed stitching
- 6 Front mounted power switch
- 7 16-bit data sampling per channel (65,536 shades per color)



- 8 Small Form Pluggable sockets (SFP)
- 9 3 independent input channels (HDMI 2.0b / 12G SDI, 3G and HD supported / DisplayPort 1.2)
- 10 Dedicated V-Stream copper RJ45 output.

- 11 85-264 VAC power input
- 12 Back mounted power switch