

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 uncompressed 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.

4K 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). Framelock enables processor stacking, if feed stitching is needed.

PICTURE PERFECT

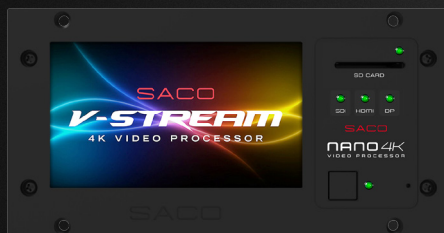
Built-in frame buffer for advanced live image enhancing functions. Resizing engine for image mapping perfection.

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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 113°F (0°C to 45°C)
HEAT CONTROL	Forced air cooling by internal fan

ELECTRICAL

INPUT VOLTAGE	85-264 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. Re-clocked output. 1 x DisplayPort 1.3 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
API	Dynamic API control

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 adjustments
FILM & XR MODES	Framelock function to synchronize video displays with the cameras Optional Genlock. Framelock standard Custom gamma curve HDR compatibility 24/48 30/60 fps display sync

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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SPECIFICATIONS GUIDE



PRODUCT ORDERING CODE

MODEL #

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

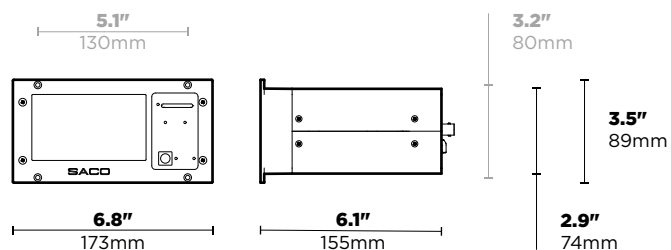
² Maximum range up to 410ft (125m) for SACO video signal speeds.

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

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

FILM MODE

FL Framelock
GL Genlock



(MOUNTING DIMENSIONS IN GREY)

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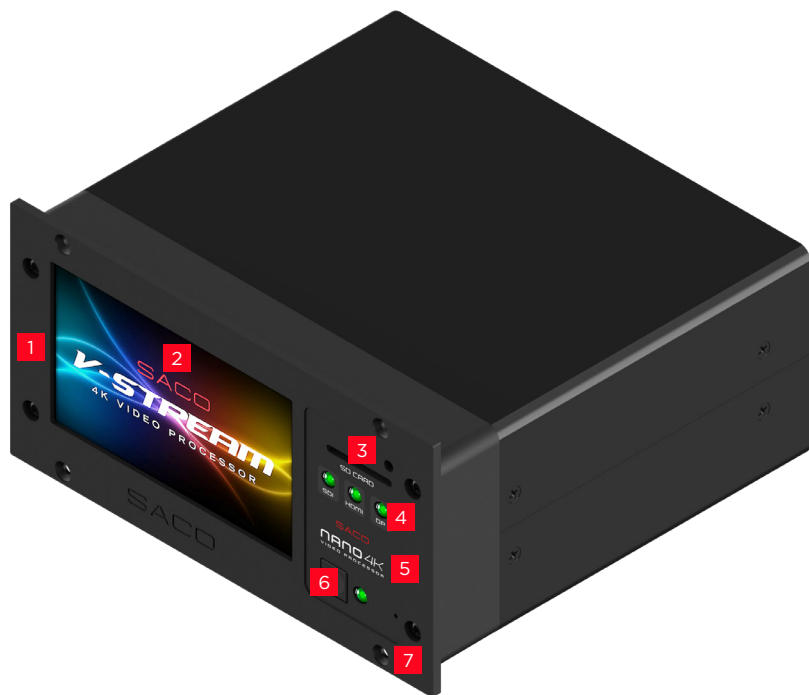
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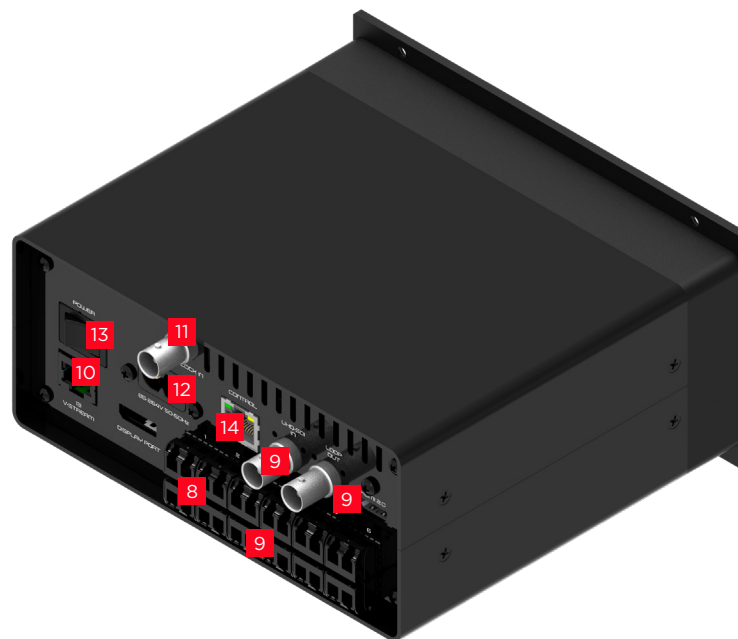
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WIRING GUIDE



- 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)

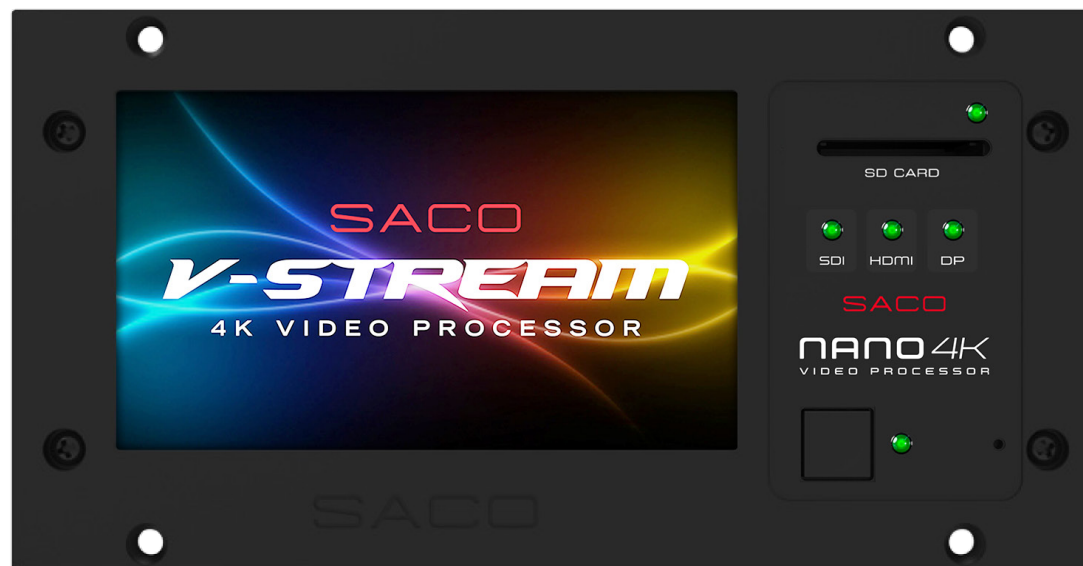


- 8** Small Form Pluggable sockets (SFP)
6x V-Stream copper RJ45 direct outputs
or 12x V-Stream fiber optic outputs
- 9** 3 independent input channels (HDMI 2.0b /
12G SDI, 3G and HD supported / DisplayPort 1.3)
- 10** Dedicated V-Stream copper RJ45 output.

- 11** Genlock input (optional)
- 12** 85-264 VAC power input
- 13** Back mounted power switch
- 14** RJ45 network connection for remote control and monitoring

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