

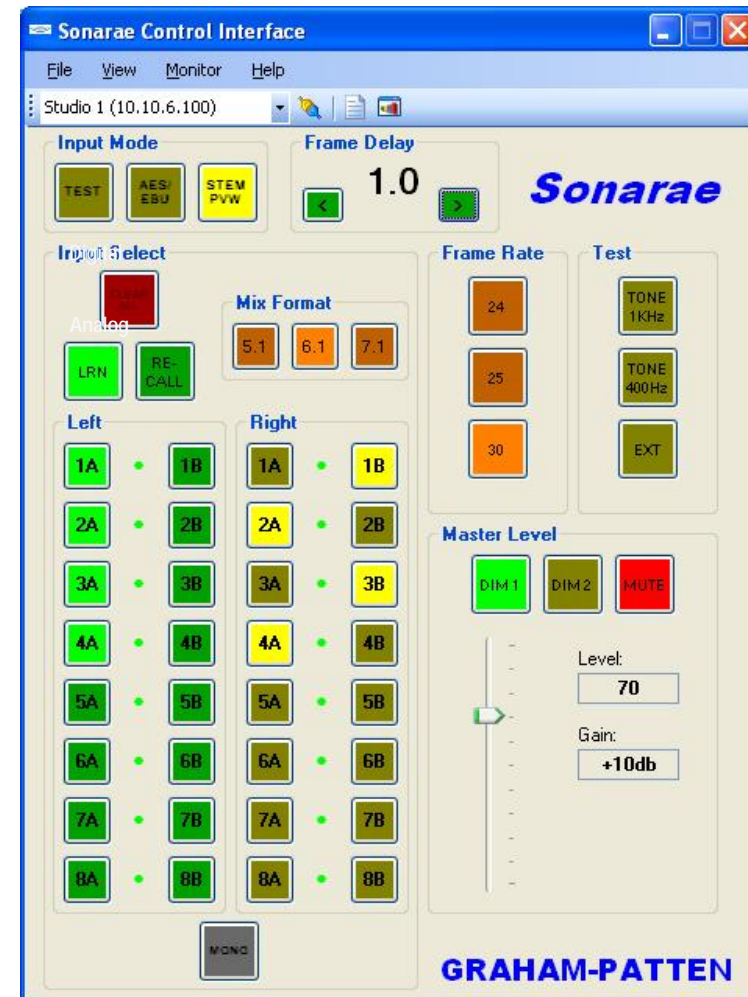
Sonarae SPECIFICATIONS

	FUNCTIONAL
Audio Inputs	Two sets of 8 AES/EBU pairs. Main and STEM preview. One external test generator
Audio Outputs	AES REF - BNC Pre-level AES/EBU Post-level AES/EBU Pre-level stereo Main stereo Standby stereo Mono Headphone (at the control panel)
Audio Delay	0 to 9.5 frames at 0.5 F increments
Tone Generator	Selectable 400Hz/1KHz / External
D/MEM Registers	5.1/6.1/7.1 plus learn/recall/clear register

	PERFORMANCE
Accuracy	Internal audio data transfers: 24 bit precision Internal calculations: 32-bit precision
Analog Outputs	DC Active balanced
Coupling	<30Ω
Source Impedance	+24dBu max 10K or greater
Level	+22dBu max, into 600Ω or greater
S/THD+N @ -20 dBFS:	>70dB
S/THD+N @ 0 dBFS:	>90dB
Signal to Noise	>100dB @ Digital silence
Frequency Response	± .1dB 20-20kHz ±.05dB 50-15kHz (Typical)
Crosstalk @ 0 dBFS:	>94dB @ 1kHz
Headphone Output	
Minimum load	20Ω
Dynamic range	>90dB

	PHYSICAL
Audio Connectors	AES/EBU - 25 pin 'D' Outputs - 3-pin WECO AES REF - BNC Ext Test - BNC
Interface Connectors	Serial 9-pin D sub-min (RS-422)
Dimensions	
Rack frame	1.75 x 19 inches (44.5 x 482.5mm)
Control Panel	12 x 8.5 inches (305 x 216mm)
Weight	
Rack frame	5 lbs (2.27 Kg)
Control panel	6 lbs (2.72 Kg)
Power	
Voltage Requirements	90 - 240 VAC
Frequency	47 - 63 Hz
Power Consumption	20 Va max.
Environmental	
Operating Temperature	10 - 40°C max
Humidity	90% non-condensing
Compliance	
CE compliant - UL approved - FCC - RoHS compliant	

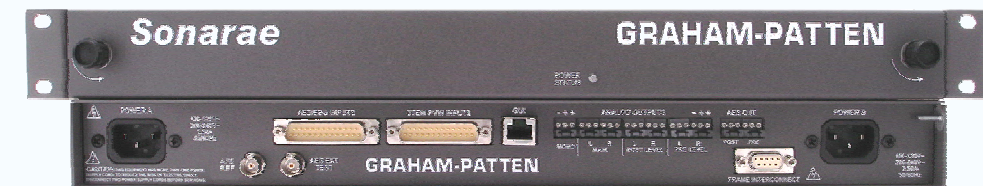
Optional GUI



The optional GUI provides a virtual replica of the control panel and its status. The GUI operator can monitor and control all aspects of the Sonarae system.

The GUI also provides a feature not available on the control panel, allowing the operator to modify the configuration of the 5.1, 6.1 and 7.1 presets.

Sonarae



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Just Listen...

Sonarae

The Missing Link in Non-linear Editing

The design and feature set for *Sonarae* was heavily influenced by input from customers. The concept for the package is based on the need for flexible multi-channel audio monitoring in the non-linear-edit environment.

Sonarae is a first-generation audio monitoring system specifically designed to meet the needs of NLE operators who must, as a part of the NLE process, provide critical monitoring of the audio associated with a specific video edit session.

Sonarae offers an input mode selector for up to 8 AES/EBU data streams or 16 individual audio channels. The input selector allows the user to switch from the main AES/EBU inputs to STEM recorder preview inputs, to an internal tone, or to a test source.

The 8 AES/EBU input data streams pass into the heart of the system, which is comprised of a 16x2 summing matrix. This matrix allows the operator to listen to individual left or right audio channels at the output or to select various channel combinations. Special algorithms have been developed to maintain a constant level at the output of the 16x2 summing matrix.

For ease of use the 16x2 matrix is equipped with 5.1/6.1/7.1 surround sound stereo mix down selectors along with a set-up, learn, and clear function. This allows the operator to set-up, learn and store custom stereo mix-down formats that are available for re-call at any time.

Sonarae provides the operator with master speaker level, along with two different dim settings and a mute switch, which can also be remotely to a foot switch. In addition, a headphone amplifier (with separate level control) and output jack is located in the control panel. This allows the operator to more attentively listen to the audio quality with the same functionality as previously described.

The system provides outputs of pre- and post-level AES/EBU audio in addition to optional pre- and post-level analog audio. Operator-selectable delay is built into the unit to allow for compensation of picture monitor latency. This delay is adjustable from zero to 9.5 video frames in 0.5 frame steps. In order to accurately calculate the delay setting, *Sonarae* has a 24/25/30 frame rate selector.

