



G61R

Compact Surround Processor



Meridian's G Series line of high performance digital & analogue consumer audio components feature a stylish cabinet design in traditional black or a sleek silver finish.

Designed to be either free-standing or rack-mounted, G Series components build on their predecessors, the multi-award-winning 500 and our flagship 800 Series, and include entirely new circuitry developed specifically for the G Series.

Multi-layer boards reduce system noise and improve performance. In products which include video capabilities, broadcast-quality, wide-bandwidth video components are employed for maximum image integrity.

G Series units are easy to use. Where appropriate, a knob is included to control volume. The positive-action front-panel keys are software-defined: their legends are presented in the vacuum fluorescent display and change intelligently according to context.

Full installation configuration of many G Series components is achieved by running a special setup program on a Windows computer, connected to the G Series unit via a serial link, or direct from the front panel.

G Series products also include serial ports for remote operation and configuration, along with infra-red sensor input and trigger capabilities, plus Meridian communications ports. A comprehensive back-lit learning/programmable remote is included with products other than amplifiers.

The G61R builds on the technology that went into Meridian's flagship, AAA-rated 861 surround processor, and is a development of the successful G68 and successor to the popular G61. It is a powerful, flexible surround controller with an attractive price-tag, ideal for those who do not require the comprehensive video and multiroom features or tuner provided in the G68. Like the G68, however, the G61R now includes Meridian's acclaimed Room Correction system.

At the heart of the G61R is a powerful DSP engine consisting of three Motorola 56367s and a 56371 running at 150MHz – delivering in excess of 500MIPS (million instructions per second). Processing is performed at high sample rates and with 48-bit precision throughout, ensuring that all filtering, processing and other operations are carried out far, far above the limits of human hearing. The G61R is thus ideal for the very highest quality digital audio.

Incoming analogue signals are converted to 24-bit, high-sample-rate digital data via multibit Delta-Sigma converters as soon as they enter the processor, and all digital signals are reclocked to minimise jitter and maintain total data integrity.

The G61R includes two 6-channel S/PDIF digital inputs (coax), four stereo Toslink optical inputs, and six stereo coax digital inputs. In addition, there's a 6-channel analogue input, and five stereo analogue inputs. All inputs are reconfigurable for an incredible degree of flexibility.

Product highlights

Now with Meridian's acclaimed Room Correction

5 digital optical and 6 digital coax stereo inputs

5 stereo analogue inputs

10 digital surround and 8 analogue surround outputs

Analogue and 2 digital multichannel inputs

Powerful DSP engine with four processors delivering over 500MIPS

On-board AAC decoding, plus Dolby Digital, DTS, MPEG, Ambisonics and acclaimed Trifield decoding

THX Surround EX Ultra 2 certified

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G61R rear panel



The G61R combines controller and surround processor functions, meeting THX Ultra 2 specifications and including the latest superb-quality AAC, MPEG, DTS, Dolby, Trifield (Meridian's renowned 3-speaker stereo decode) and Ambisonic (both 2-channel UHJ and B-Format, to 4, 5, 6 or 7 speakers) decoding. The decoders consist almost exclusively of our own code, giving them superior integration with the Meridian design philosophy, as well as superior performance.

The G61R's 'Smart Source' feature continually monitors the digital inputs and automatically loads the correct decoding software for the format, speaker layout and encoding of the incoming signal. This capability is enhanced by MHR SmartLink, which provides a digital link between a Meridian optical disc player and processor, carrying explicit information about the nature of the datastream as well as encrypted high-resolution digital signals. You can also store separate parameters for each source (such as DVD) depending on whether the incoming signal is stereo or surround.

The G61R features eight analogue outputs for front, rear, centre and sub connections, plus two additional outputs for other applications. Ten digital surround outputs are provided, including front, rear, side, centre/sub and again include an additional output pair.

The G61R can be configured with a powerful Windows graphical set-up application (downloadable from the Meridian web site), which allows access to all the unit's functions and configuration. In addition, the G61R includes Meridian's powerful Room Correction system, as included in the G68, which compensates for problems with room acoustics. For more on Room Correction, please download the White Paper available

from the Meridian web site or ask your Meridian dealer.

The G61R can also be configured extensively from the front panel, thanks to the comprehensive 'soft-key' based user interface which is common to all the G Series components. 'Wizards' lead you through the configuration procedure, allowing a powerful degree of customization without having to

hook up a computer. The G61R's firmware can be updated via serial link with files downloaded for the Meridian web site.

Contact your Meridian dealer for a demonstration of the G61R and other G Series components, along with Meridian DSP Loudspeakers, which form an ideal complement to them.

Outline Specifications

Inputs

- Digital Inputs: 4 x Toslink optical in, 6 S/PDIFcoax stereo in, 2 x 6-ch MHR coax in, USB Audio
- Analogue Inputs: 5 x stereo, 1 x 6-ch analogue in, unbalanced, 0.5–2.5Vrms adjustable, input impedance 20kΩ

Outputs

- Digital outputs (S/PDIF coax): Main L/R, Centre/Sub, sides, rears; A/B (configurable)
- Analogue outputs (phono): Main L, Main R, Rear L, Rear R, Centre, Sub; LZ, RZ (configurable), variable between 0 and 3.5Vrms, output impedance 47Ω. Distortion <0.01%. Noise & hum <-95dB CCIR

Control

- 2 x DIN and 1 x BNC Meridian Comms, 3 x Trigger (+12V, 150mA), IR in, USB, RS232 remote control/configuration

Processing

- 3 x Motorola 56367s and a 56371 running at 150MHz to give a total of over 500MIPS (million instructions per second). 48-bit arithmetic throughout

Conversion

- 24-bit Sigma-Delta converter chips operating at up to 96 kHz on analogue inputs and outputs

Controls

- Front-panel soft keys include control of Source, Mute, etc. Power and Display buttons, rotary DSP volume control.

Full remote control via MSR+ and serial. Serial and USB link also used for firmware updates. Config via serial/USB or front panel

Display

- Multi-character matrix Vacuum Fluorescent Display

Indicators

- Front-panel keys back-illuminated; Standby button lit when off

Formats

- Include AAC, Dolby Digital, DTS, MPEG Surround,

DSP Modes

- Include Direct, Music, Trifield, Ambisonics (2-ch UHJ & B-Format), Super Stereo, Music Logic, THX, Mono, Discrete, TV Logic, ProLogic IIx Music, ProLogic IIx Movie, ProLogic IIx THX, Cinema and up to 10 user-defined. Built-in Meridian Room Correction.

Power

- Universal supply 100–240V, 50–60Hz, 25W Construction
- Meridian black or silver finish in metal & glass

Dimensions

- Width: 440mm (17.32in); Depth: 350mm (13.78in) plus connectors; Height: 90mm (3.54in)

Rack Mounting

- Kit available from Meridian authorized dealers

Weight

- 9kg (19.8lbs)