

stereophile

ELECTRONICALLY REPRINTED FROM MAY 2012

MUSIC IN by KALMAN RUBINSON THE ROUND

Bryston SP-3



The Bryston SP-3 combines an uncompromised analog preamp, superb DACs, and an excellent digital processor.

Bryston SP-3 multichannel preamplifier-processor

Bryston describes its SP-3 (\$9500) as comprising a true analog preamp plus a full-featured multichannel digital audio processor, and claims that none of those functions compromises any of the others. That statement is a slight modification of the sentence that began my September 2006 review of the SP-3's predecessor, the SP2 (see www.stereophile.com/musicintheround/906mitr/index.html). It is indicative of the enduring philosophy of the manufacturer that, in the more than five years since, Bryston has worked to create a new pre-pro that fully reflects new developments in audio and video

but without compromising analog quality. Audio is extracted from an input HDMI signal for processing while the video signal is routed, unprocessed, to the two HDMI outputs. Digital audio of all formats, including high-definition audio codecs, are supported, and stereo and multichannel analog inputs are handled by discrete class-A circuitry. Completely separate power supplies support the analog and digital functions, and the internal construction is highly modular, to ease future updating of the SP-3 to keep pace with evolving technology.

For all that, the SP-3 looks like a Bryston and works like a Bryston, while providing all the fea-



The SP-3's digital inputs, HDMI excepted, can be assigned to any input button.

tures—with one exception—that users expect from a modern multichannel pre-pro. Even that exception, room correction or equalization, is consistent with the goal of making the output as accurate to the source as possible.

When I unpacked the SP-3, I was surprised by how heavy it was, at 22 lbs for its size—the case measures 17" wide by 5.75" high by 14.25" deep, significantly less than those of other high-end pre-pros I've used, such as the Meridian Reference 861, Classé SSP-800, Krell Evolution 707, and Integra DHC-80.2. In size and weight it's most similar to the Anthem Statement D2v. When I replaced the Meridian 861 and its companion HD-621 HDMI processor with the SP-3, the impression was of a reasonably compact device.

The SP-3's rear panel is nicely organized and clearly labeled. Across the top are eight HDMI inputs and two HDMI outputs. Below these is a tier of RCA jacks: from left to right, a 7.1-channel set of analog outputs, two Aux outputs, Zone 2 stereo output, tape and DVR processor

loops, a 7.1 set of analog inputs, and four S/PDIF inputs. Below these are a set of 7.1 analog XLRs output, two Aux outputs, two pairs of balanced analog inputs, a 7.1 set of analog RCA outputs, and two AES/EBU inputs. On the far right, below the AC input connector, are three more tiers of connectors: at the top, USB,

Through the Bryston's analog stereo inputs the sound was absolutely pristine, powerful, and a breath of fresh air.

RS-232, and Ethernet jacks; in the middle, an IR jack and four TosLink jacks; and on the bottom, four trigger connectors.

The logic of this arrangement is that, although the 7.1 sets of RCA and XLR outputs are simultaneously available, most users will choose one or the other; placing one set above the other makes for uncluttered access to all other

connections. The Aux outputs, both for RCA and XLR, support use of an additional subwoofer and center-channel speaker. The digital inputs, HDMI excepted, can be assigned to any input button. In keeping with Bryston's philosophy of minimizing complexity, each analog input is assigned to a particular input button, as are the HDMI inputs.

The front panel is equally logical in layout and functions. On the left, above the Bryston logo, is a relatively large and clearly readable four-line alphanumeric display (this briefly converts to a large numeric display when the volume control is used) and the Standby/On button. Across the top are the familiar four navigation buttons, as well as a button for Display (selects brightness), two for Surround Mode (how nice to be able to step through the choices in either direction), one for Digital (selects S/PDIF or AES/EBU sources), HDMI (selects source), 2 Ch. Bypass (selects the front L/R from whatever analog source is active), and Stereo (conventional stereo, or a mixdown from a multichan-

nel source). Across the bottom are the input selector buttons. HDMI input assignment is fixed for the first eight inputs, but the identically labeled analog audio input can be selected, or a digital audio input for each can be programmed through the menus. Similarly, the USB and 7.1 Bypass buttons are associated with those jacks. To the right are buttons to select Main or Zone, and a headphone jack. At the extreme right is a large knob for volume control and navigation.

Again, the logic of this is that, after programming one's preferences in the user menus, one needs only the input selector buttons and volume control. On the other hand, one can make on-the-fly selections with the upper row of buttons. So easy and intuitive are the control and display arrangements that the lack of an onscreen display is unimportant. The SP-3 lacks a front-panel mute button, but I found that toggling the Main button serves just as well.

The menus, too, show Spock-like logic. The two main sections are System Setup and Source Setup. System Setup settings apply to all sources and include speaker distance, S/PDIF, and TosLink button assignments, display and utility settings, and the pink-noise test signals. Source Setup settings are made on a per-source basis, and include speaker size and crossover, speaker level, subwoofer use, triggers, dts/Dolby options, HDMI and digital outputs, as well as lip-sync adjustment. Most interesting is Auto Save, which permits the system to save all your manipulations as you do them, and revert to these saved preferences on boot-up. This means that the SP-3 can almost program itself as you use it.

The compact metal remote

control provides all necessary controls, and lights up automatically if picked up. All buttons are identical in size and feel and are fairly symmetrically arranged, but the auto-illumination (and the additional rubber foot I added to the back) made it easy to find and use them.

Part One: The SP-3 in NYC

I inserted the Bryston SP-3 in my Manhattan system, and connected the Sony XA-5400ES SACD/CD player and Oppo BDP-95 universal Blu-ray player to the first two HDMI inputs, the two balanced analog inputs, *and* the Oppo to the multichannel RCA analog inputs. My Pioneer FM tuner went into a stereo analog input, while the Squeezebox Touch music server and the coaxial digital feeds from the disc players were connected to S/PDIF inputs. XLR outputs for the left, center, and right channels went to the McIntosh MC303 three-channel amplifier; XLR outputs for the surround left and right channels went to the McCormack DNA-1 Rev.A amplifier, and an RCA subwoofer output went to a JL Audio Fathom f113 sub. Why RCA? Read on.

I programmed in the measured speaker distances and set the speakers to Small, crossing over to the subwoofer my three B&W 800 Diamond front speakers (at 45Hz) and two B&W 804 surrounds (at 80Hz). I used the Bryston's built-in pink-noise generator to set speaker levels, using XTZ's new Room Analyzer II Pro (see below). I considered running the front three speakers full range, but my room has some low-end problems that add muddiness; as the SP-3 lacks EQ, I thought it best to divert the very low end to the subwoofer, where it could be dealt with by the

Automatic Room Optimization (ARO) system in the Fathom f113 (see this column, November 2006; www.stereophile.com/musicintheround/1106mitr/index.html). However, I prefer using DSPeaker's multiband Anti-Mode 8033 bass equalizer (see this column, January 2009; www.stereophile.com/content/music-round-34-page-2), which has only RCA outputs, not XLR. The success of the 8033's EQ was confirmed by ear and by measurement with the XTZ, which found no residual modal behavior in the passbands of the subwoofer or the main channels.

Through the Bryston's analog stereo inputs the sound was absolutely pristine, powerful, and a breath of fresh air. My regular reference discs provided a spacious and stable soundstage with good depth and balance. The SP-3 sounded full and rich, while imposing no undue warmth on the music. I had expected otherwise—my memory and notes told me that the SP2 had a clean but moderately lean tonal balance—so I was greatly surprised and pleased. Indeed, although I did no direct A/B comparisons between the SP-3 and the Parasound Halo JC 2, which sat below it on the rack, my overall impression was that the SP-3 was as transparent as any analog stereo preamp I have used. The sound via balanced XLR links was slightly but consistently quieter and more open than from the RCAs. I also made use of the JC 2's ability to add a subwoofer bass to the analog-bypass stereo analog signals, and found that set-up utterly identical to the direct bypass, except for the improved clarity in the really low, powerful bass. Clearly, a win-win for the Bryston SP-3.

With digital S/PDIF or TosLink datastreams, there was no

doubt that Bryston had applied their considerable experience in D/A conversion to the SP-3. I've been out of the mainstream of the standalone DAC business for a little while, but Bryston's 24-bit/192kHz DACs drew finer detail from the music, especially in the treble, than I got from the analog outs of either the Sony or the Oppo player. This was true even when I compared the Oppo's 24/88.2 PCM output from SACDs with the analog output of the Oppo's vaunted 32-bit ESS Sabre DACs directly converting the DSD signal.

Switching to multichannel, as fed from the analog outputs of the Oppo BDP-95, meant using the Oppo's crossover and distance settings, although the external EQ of the subwoofer was retained. I found this sound utterly amazing. It retained all those characteristics that had so impressed me with two-channel

signals, now enhanced and expanded into the three dimensions of surround sound. This was the first time in a very long time that I had enjoyed convincing multichannel high-resolution sound without a digital processor. Chalk it up to the excellent analog signals provided by the Oppo, but also, in no small measure, to the Bryston SP-3's utterly transparent sound.

Indeed, moving on to the more standard digital connection between the player and the SP-3, there was still something to be gained, but nothing was lost. The integration of the subwoofer's output was improved by the Bryston's use of second-order high-pass and fourth-order low-pass filters at 45Hz. (The Oppo's only relevant options were at 40 or 60Hz.) This contributed to the overall illusion—even powerful low bass had unequivocally specific imaging at all levels.

And all this in only my first two weeks with the Bryston SP-3! At this point, my preliminary verdict is clear: The SP-3 is an uncompromisedly superb analog preamp that also includes Bryston's excellent 24/192 DACs. In that sense, it can be regarded as Bryston's ultimate stereo component. I need and want to spend more time listening to the SP-3's multichannel performance via HDMI in my Manhattan system, as well as in my Connecticut system, where the supporting cast is so different. Those results, in detail, will appear in my next column. I have very high expectations.

CONTACT

Bryston Ltd.

PO Box 2170, 677 Neal Drive
Peterborough, Ontario K9J 6X7
Canada

TEL: (800) 632-8217, (705) 742-5325

FAX: (705) 742-0882

WEB: <http://bryston.com>