lome Audio Equipment Review

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Monarchy Audio SM-70 Pro Amplifier by Wes Phillips

Vhen Marc Mickelson assigned me the Monarchy SM-70 ro for review, I wasn't sure what to expect. I knew Ionarchy made well-respected digital gear, such as the)IP, but other than that I drew a blank. Within days I eceived two compact boxes that broke the mold for highnd audio amplifiers -- I was able to tote both boxes up ne staircase in a single trip, unassisted. Upon opening the hipping boxes, I discovered that I had received, not a pair f monoblocks, but two toy-like stereo amplifiers. mall, yes, but also perfectly formed. With their thick aceplates and robust binding posts, these sure weren't rimpy-looking amps. And, as I discovered upon reading ne tersely worded owner's manual, they weren't ecessarily the 25W stereo rigs they seemed at first, but onest-to-gosh completely balanced monoblocks -- at east when their XLR inputs were employed. is the great David Bromberg put it, "Don't let the glasses ool ya'/ Stand beside me when you measure my size...."

on't let false estimations rule you...

he \$980 USD SM-70 Pro looks like an elegant toy -omething simultaneously precious and butch, like a
'onka Toy bulldozer. It's only 5" tall by 11" wide by 12"
eep, but its black anodized aluminum metalwork and
umbrous transformer cause it to weigh in at 24 pounds.
ach amp has a pair of Art-Deco-ish handles on the front
they're marbleized cylinders supported by heavy, goldlated wires that wrap around the handles three times. It's
pretty effect, but don't be fooled -- the handles are there
be used and give you sufficient leverage to hoist and
aul the amplifier around.

he SM-70 Pro is designed as a 25Wpc stereo amplifier nat can also be bridged to perform as an 80W monoblock. What the amp is *really* designed for, however, is to be sed as a fully balanced mono amplifier -- when its XLR nput is used, it routes the positive and negative legs of the ignal to the left and right channels of the amplifier. The pudspeaker is then connected to the positive binding



Review Summary

Sound "Sweetly detailed" and "warmish" when used as a singleended stereo or mono amp, but "running fully balanced, the SM-70 Pros exhibit a level of transparency that is simply awe-inspiring....Their clarity and punch are amazing."

Features Compact size; RCA and XLR inputs; stereo output is 25Wpc, but mono use more than triples the power output to 80W and adds the allure of fully balanced operation.

Use Offer up their best sound by far when used mono and balanced.

Value Perhaps not a "fantastic value as a stereo amplifier," but "when you consider that fully balanced monoblocks from the big boys cost over \$5000 per channel, the entry fee for a pair of Monarchys seems like a relative bargain."

osts for each channel (right being positive and left being negative). The SM-70 also has a switch that will bridge the amplifier when a single-ended uput is used; the amp then routes the output of the left channel's gain-stage op-amp (a Burr-Brown OPA2604) through a resistor into the inverted uput of the op-amp's right channel. Thus the right channel's voltage gain is controlled by the left's op-amp.

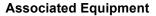
Ionarchy describes the SM-70 Pro as a "zero-feedback" design, although the op-amp gain stage *does* actually employ a standard non-inverting edback loop. However, the MOSFET output stage is an open-loop design with no global feedback returning to the input -- so, in that sense, their escription is correct. The amplifier's power supply consists of a hefty 480VA toroidal transformer with 60,000pF storage capacitors.

Ill told, the SM-70 Pro is smartly built -- it's solid as a brick and tightly ut together. The black anodized aluminum chassis is bolted firmly to /8"-thick extruded aluminum heatsinks. The front panel is a chunky /4" thick, and its appointments include Teflon-insulated gold-plated CA inputs, a substantial XLR input, and hefty, gold-plated five-way inding posts with plastic lugs. Parts quality throughout is solid, if not rofligate: Monarchy employs metal-film resistors, a combination of ilver-mica (small value) and polypropylene (large value) capacitors, nd circuit boards that are substantial but certainly not exotic. note to audiophiles who are hung up on "name" passive components: let over it! Sometimes the expensive big-name passive components on't necessarily sound better than the plain vanilla variety. I know everal high-end manufacturers who conduct blind evaluations of assive parts within their circuits, and they don't always find a sonic dvantage to the pricier resistors and circuit boards. Sometimes, ves. ney do; but don't sneer at a product just because it doesn't use udiophile-approved components.

stand tall with the unseen powers...

figured I'd try a single SM-70 Pro first, so I connected it to the C-J remier 17LS using the RCA inputs, driving Dynaudio Contour 1.3 Mk. Is. I was startled by how sweetly detailed it sounded driving those urrent-hungry monitors.

listened to Sam Bush's *Late As Usual* [Rounder 1040-2] and just arveled at how clean and clear his fabulous mandolin playing sounded. "Sailin' Shoes" -- yes, *that* "Sailin' Shoes" -- was full of piss'n'vinegar, pitting out chord after chord, rivaling any Little Feat live performance of the tune I've ever heard with its boisterous energy. *Late* is an impeccable tudio recording, and the SM-70s allowed me to hear reasonably far into the soundstage, but not *all* the way in. I was conscious of it sounding *too* lean -- notes seemed to die without decaying fully.



Loudspeakers – Dynaudio Contour 1.3 Mk II, Polk RT 3000P, Thiel CS 7.2.

Amplifiers – Musical Fidelity Nu-Vista 300, VTL TT-25. **Preamplifiers** – Ayre K1x; Conrad-Johnson Premier 17LS. **Analog** – Linn LP12 with Naim Armageddon power supply, Naim Aro tonearm, van den Hul Frog cartridge.

Digital – Musical Fidelity A3^{CD} CD player, Sony CDP CX-400 CD changer.

Interconnects – AudioTruth Midnight, DiMarzio M-Path.

Speaker cables – AudioQuest Dragon DiMarzio Super M-Path

Accessories – OSAR Selway Audio Racks, Audio Power Industries Power Wedge Ultra 116.

Room treatments – ASC Tube Traps, Slim Jims, and Bass Traps.



Nor was I able to really engage the Dynaudios with a single SM-70. Larger ensembles, such as Duke Ellington's band, just didn't have the slam and impact I have come to expect from them, as I discovered when I played *The Great Paris Concert* [Atlantic 304-2]. The solo piano "Kinda Dukish," which started Ellington's live sets, came across great, complete with the pianist's grunts and moans, but when Ellington modulated down into the opening bars of "Rockin' In Rhythm," where the band enters blowing full bore...well, the sound just didn't have the power and the majesty that I know that passage ought to have. Sometimes 25Wpc just won't cut it.

So I switched both SM-70s into bridged mode and listened that way. Power may corrupt, but it can also wrest a lot more music out of certain loudspeakers. And that's exactly what it did with the Dynaudios. The bridged SM-70 Pros caught a lot more detail than the unit did as a stereo amplifier -- and had the dynamic reserves that 25W just didn't command as well.

The overall sound was still warmish, but not overly so. The Sam Bush album regained its sense of spaciousness -- or at least I was now hearing the size of the room it was recorded in. Soundstaging was solid and the stage ran deep, back to my front wall, if not much beyond it. And timbre

ang true as could be; I was hearing small differences between instruments I wasn't able to capture with the amp running stereo. rule the spirits that live in the wild wood...

but I just couldn't escape the feeling that I wasn't getting it all. There was a slightly coarse quality to transients and details that was preventing the ansitions from silence to sound from being as sharp as I have become used to with my reference Nu-Vista 300. So I reckoned it was time to run the M-70 Pros in their balanced mode.

laturally, this was one of those ideas that sounded simpler than it proved to be, since the Premier 17Ls had only SE outputs. So first I substituted the tyre K1x, feeding the Monarchy from one of its pairs of RCA outputs; only after I had grown used to the difference the change in preamps made disswitch to its balanced XLR outputs.

isn't subtle. I'd have to say that the SM-70 Pro is a balanced-input monoblock amplifier that ranks with the really great ones -- n be used as a stereo or bridged SE amp, at considerable cost to its performance.

d, the SM-70 Pros exhibit a level of transparency that is simply awe-inspiring -- especially in comparison to other operational d punch are amazing. Take the Ellington disc, for instance. In fully balanced mode, the SM-70 Pros really let Ellington's gh -- the dynamic ebb and flow are much more in evidence than they were in my previous auditions, and I could clearly l right handfuls of chords as he strode towards the band's cue. And *Oh! My! Goodness!* what an entrance when the entire he *Dun da da dun DUN* opener of "Rockin' In Rhythm."

listening session after listening session. I'd forget about making comparisons, caught up in this or that musical revelation. But I at the sweet, detailed, dynamic, overwhelmingly *natural* sound of the system. What superb little amps.

Thiel CS7.2s, partially because they can be a brutal test for an amplifier, but also because the disparity in size amused me. *can* drive the Thiels, but they're not the first amp you'd choose for the task. They'd play to a certain loudness level and then further. It wasn't so much a case of the SM-70s sounding *bad*, they just reached a point where they refused to go further. In their proper senses would construct a system where an 80W amplifier drove the 7.2s anyway.

xtive subwoofer/passive mid/high Polk RT 3000P with the SM-70 Pro, both as a stereo amplifier and as a fully balanced on about it, the Polks were a beautiful match for the Monarchys. As a stereo amp, the SM-70 added a touch of sweetness to the ule that made for some of the best sound I'd heard from the speakers. But once again, good as that was, balanced operation astonishingly more dynamic.

0 Pros have taught me one unexpected lesson, it is that the swing from silence to a full-blown crescendo is far greater than we en in ambitious systems -- and that's something the SM-70s re-create in their balanced configuration better than any number of

talk to stars

uditioning the Monarchy SM-70 Pro amplifier. It seemed extremely well made and well thought out. At nearly a thousand epresents fantastic value as a stereo amplifier, however. That kind of money buys you any number of stereo amplifiers with

here are two points I'd like to make. One is that the amplifier can be found for far less than its suggested list price, making it second is that I don't really see it as a stereo amp at all -- to hear what it can do, you have to have a fully balanced source or leed a pair of the SM-70 Pros. Then you'd be in a position to hear what they do best.

er that fully balanced monoblocks from the big boys cost over \$5000 per channel, the entry fee for a pair of Monarchys seems All I can say is that it's going to be hard to give these amps up when the time comes to ship them back to San Francisco. Give n you, and you might have a hard time turning them down.

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io SM-70 Pro Amplifier

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