

I'm not robot  reCAPTCHA

Continue

December 27, 2019 This is a review and detailed measurement of the Outlaw Model 5000 five channels home theater amplifier. He was kindly acquired by a member and drop sent to me. Despite the number of channels and the power of each, the 5000 model costs only \$649, although shipping adds a fair bit to it. Shipping is expensive because it's a super heavy thing. It's at the limit of what I can reasonably carry upstairs to my lab (50 pounds): My back nearly killed just spinning a darn thing in my photo booth. Unfortunately, as you see, there are no balanced XLR inputs. You are given heavy mandatory posts, although that's a good thing. The left and right channels are far apart, which is right to do so as they and the central channel get beaten the most. And this is the most logical layout in my book. In using the Model 5000 never complained, off or anything like that. The heats are below the top cover, so you can't accurately feel their pace. I'd imagine it would be closed though if it got too hot. Not much else to talk about so let's take in the measurements. Amplifier Audio Measurements As usual, we start with our dashboard 1 kHz by 5 W in 4 ohm load: Nice to see an increase of 29 dB, which is the only recommended standard in the wild (from THX). There is a fair amount of buzz and noise power. I've improved them a bit with tinkering with grounding, but it's the nature of the beast when a linear supply of power is used. Distortion dominates the second harmonic, which combined with noise and buzz gives us a mid or road SINAD: Speaking of noise, there is our signal to noise ratio at 5 watt and almost full power: I like to see 96 dB or better at 5 watt to clear the dynamic range of the CD, but we don't get there. At full capacity though, we meet this target and a little more in a good channel. Response frequency is basically flat in the sound strip: Testing with my simulated speaker model hasn't changed the answer hardly at all: Crosstalk was as good as it should be in modular amplifiers, as it should be with independent amplifiers: The Power Measurements Amplifier The most important deal with any amplifier is its power versus distortion and noise, so let's start with 8 ohm load A: It's good to see the Outlaw 5000 completely outperform our NAD AVR in both much lower noise, distortion and affordable power. The pattern is almost the same with a load of four ohm although the distortion rises: These two channel tests. Adding two more ohm loads of power drops a bit naturally: It's over 800 W delivered to the load, which is great. Back to the two-channel power, here's what we get with a short burst (an imitation of what you can get in music) and a more stable state - both at 1% THD-N: The hardest test I run is power versus frequency when trying to reach 0.1% THD-N. The amplifier must deliver its output while stressed The 3 to 4 minute test works. Many AVRs quit smoking. Not so with Outlaw 5000: As you can see, it not only passed the Channel 2 test, but also Channel 4. Fast stats from my high frequency music library shows the highest peaks at 40 Hz and this is where the cursor is. We get 252 W at this frequency with two channels and 207 W with four channels. Yes, it's lower than the 1 kHz peak I use in other charts, but still a lot of energy. Conclusions Despite its bargain price, the Outlaw Model 5000 is solidly built and supplies tons of energy without complaining. It provides a clear installation over built-in amplifiers in the home cinema AVRs. No, it doesn't cause distortion or noise. For this you have to pay a lot more money. For what it is, it's very good and I am happy to recommend the Outlaw Model 5000. ----- as always, questions, comments, recommendations, etc. are welcome. Feeling pretty poor having spent so much money on Christmas. Appreciate everything you can do to get me out of this by donating generously through: December 27, 2019 I always hold my breath when I see the product I have turn here. I have some extra grounding on my amp also because Audioholics recommended grounding the chassis. December 27, 2019 The only remaining question... Will be @restorer-John stamp of approval David van Harn, retired American Expat www.xulon.com Main System: 40 Samsung 1080p LED TV/Intel NUC5CPYH Mini - PC (LibreELEC/Kodi) qgt; IOTAVX 7.1AK AVP qgt; ICEPower 200ASC/Ghent case class D Amplification Desktop system: 24 HP 1080p Monitor/Intel NUC87 qgt; I.A.M.D. v200 DAC/Amp -Acoustics 3010 small monitors December 27, 2019 forgot to note in the review that this amplifier does generate a lot of mechanical noise, especially when cut off. It buzzes and whines at the size of the source frequency, audible up to 3 feet or so. I couldn't hear it, but my youngest son with a much better hearing could also hear his high pitch sounds while playing just 5 w. It was 1 to 2 feet or so if you're over it. December 27, 2019 Unfortunately, as you can see, there are no balanced XLR inputs. There is a 7000x model, a power amplifier of 7 channels for \$949, which has balanced outputs. December 28, 2019 It's a lot of amplifier for money. Aside from the significant differences in the S/N in the two channels Amir tested, this looks like the real deal. As it stands it can also be used in a stereo amp installation with a spare channel. Probably some of the internal amplifier channels benefit in placing relative to transformer power than others, so experimenting to find the two best for stereo would be worth aiming for. Found this on the net: I'd be testing two channels in the far right as probably the quietest. Nice juicy lid jars, 4 caps for each channel. Ricky Roma: I support the law on contrary to public opinion... If everyone thinks one thing, then I say, put the other way ... December 28, That's a lot of amplifier for money. In addition to significant s/N differences in two channels test, it looks like the real deal. As it stands it can also be used in a stereo amp installation with a spare channel. Probably some of the internal amplifier channels benefit in placing relative to transformer power than others, so experimenting to find the two best for stereo would be worth aiming for. Found this on the net: Viewing the attachment 43865 I'd be testing two channels in the far right as probably the quietest. Nice juicy lid jars, 4 caps for each channel. With a layout on what would be nice to serve. Very logical, is amazing that these capacitors are 6,800 euros each. Last edited: December 28, 2019 December 28, 2019 @amirm, Offer: When considering amps, include if the final exit is Class D, or AB. Helps us compare and note the pros/disadvantages of each compared to others of its type. What is this? December 28, 2019 @amirm, Offer: When considering amps, include if the final exit is Class D, or AB. Helps us compare and note the pros/disadvantages of each compared to others of its type. What is this? According to the review I found. The Model 5000 is a five-channel, AB design class estimated at 120 W per channel, with all channels driven at par impedance of eight-ohms, through a sound frequency range of 20 Hz to 20 kHz at less than 0.02 percent total Harmonic distortion. December 28, 2019 Outlaw does not state the location of the plant on the web page, although the back panel of the Models of 5000 States made in P.R. China It states the factory? We're criminals! We don't need a striking factory!! It's true, we don't have a factory, and we never will. If you don't build a huge amount of production, the plants are very inefficient and add unnecessary overheads to the final cost of production. We are designers and engineers. First we have the specification and design of our products and then we find the best place to produce them. We are convinced that by matching a particular product with the ideal manufacturing location, we will always deliver the best and most cost-effective components of AV. This development and production model, combined with a direct sales channel exclusively for the Internet, allows us to offer the best value to our customers. December 28, 2019 Outlaw does not state the location of the plant on the web page, although the back panel of the Model 5000 states made in P.R. China He states the factory? We're criminals! We don't need a striking factory!! It's true, we don't have a factory, and we never will. If you don't build a huge amount of production, the plants are very inefficient and add unnecessary overheads to the final cost of production. We are designers and engineers. First we have the specification and design of our products and then we find the best place to produce them. We are convinced that by comparing production with the perfect manufacturing location, we will always provide the best and most Components AV. This development and production model, combined with a direct sales channel exclusively for the Internet, allows us to offer the best value to our customers. Okay, works for me. I was wondering about the great price. Monoprice offers a more powerful (according to them) Channel 5 amplifier, which I think is made by ATI about twice as expensive. ATI in their latest offerings seems to have moved to Hypex modules (something I secretly hope the Chinese are taking some inspiration from). I think this unit hits a very nice sweet spot for the home theater market. December 28, 2019 Ok, works for me. I was wondering about the great price. Monoprice offers a more powerful (according to them) Channel 5 amplifier, which I think is made by ATI about twice as expensive. ATI in their latest offerings seems to have moved to Hypex modules (something I secretly hope the Chinese are taking some inspiration from). I think this unit hits a very nice sweet spot for the home theater market. yes, he's probably in the sweet spot. Getting five channels for a total of 600 W total w/all channels managed by eight-ohms, 20 Hz to 20 kHz at less than 0.02 percent total Harmonic Distortion for \$649.00 US is very much. As a bonus it is built well and any qualified electronic technology will be happy to service it if necessary. Page 2 Dec 28, 2019 Testing with 8 Ohms speakers or dummy resistors should improve SINAD a bit. After all, the 29dB gain is about 28X gain, and even if THX recommends it, I think it's too much for these days when most audio sources output 2...2.2V RMS. The 29dB gain will drive this amplifier to its maximum. Don't cut off power for 8 Ohms load with input 1.25V RMS (37V RMS), which is good. Instead, for 4 Ohms load max. no cut-off power is achieved with a source input of 1.125V RMS (31.5V RMS). So my thoughts are 2 cents probably an increase of 26dB instead of 29dB can help in increasing SINAD, although I know that older sound sources can't deliver peaks to 2V RMS. I really think the 29dB get recommended THX is between the former 32dB gain and the low noise 26dB get from the amps of some manufacturers. Perhaps the best of both worlds is benchmark approach with its selected amplification setting from the back of the AH82 amplifier: INPUT SENSITIVITY Low-Gain - 22 dB (9.8 W/m), Gain - 9.2 dB mid-earings - 1.1 1.4.2 dBu (4 Vrms), Gain 17.0 dB High-Gain - 8.2 dBu (2 Vrms), Gain 23 dB More can be read here on the TECHNOLOGY and SPECIFICATIONS tabs. There's actually an item called LOW GAIN FOR LOW SYSTEM NOISE. December 28, 2019 It's a lot of amplifier behind Aside from the significant differences in the S/N in the two channels Amir tested, this looks like the real deal. As it stands it can also be used in a stereo amp installation with a spare channel. Channel. Some of the internal amplifier channels benefit in placing relative to transformer power than others, so experiments to find the two best for stereo would be worth aiming for. Found this on the net: Viewing the attachment 43865 I'd be testing two channels in the far right as probably the quietest. Nice juicy lid jars, 4 caps for each channel. Parasound HC855 is very similar to me. From the furthest to the nearest channel to the transformer I use 1-R, 2-C, 3-L, 4-SR, 5-SL. The closest to the transformer is clearly the most delicious. I ignored the original tags to minimize noise in the main channels. Last edited: Dec 28, 2019 Dec 28, 2019 Long live AVB Grade !!! On December 29, 2019, I got the impression that Outlaw doesn't really design its own products. Instead, I thought they were just badging products developed and produced by others - though, sometimes in Outlaw specifications. In the case of these amplifiers, I thought the source was ATI. Edit: I found a link that said that 5000 was not made by ATI. 7500, 7700, 7900 apparently made by ATI. Casey Dec 29, 2019 I was under the impression that Outlaw doesn't really design its own products. Instead, I thought they were just badging products developed and produced by others - though, sometimes in Outlaw specifications. In the case of these amplifiers, I thought the source was ATI. Edit: I found a link that said that 5000 was not made by ATI. 7500, 7700, 7900 apparently made by ATI. Casey According to Outlaw they are designing things. December 29, 2019 price/perf is outstanding here, the only question one might ask is how long these Outlaws work, some amps are designed for the last 20 years with everyday use. December 29, 2019 I'm not sure how someone can use AV receivers with power amplifiers like this, the preliminary processor is the way, outlaw 976 processor outputs a maximum of 9Vrms. Outlaw has been a Dolby Atmos receiver in development for years. So many years that I completely stopped following bread crumbs about the project ... years ago! You can have a prepro from other brands with atmos and room correction, my point was the best way to use power amplifiers with prepro rather than AV receiver because of their very limited preout section. Outlaw 976 with Audessey x32 or Dirac would be a sweet deal. I'd pay up 1500 for this December 29, 2019 is also HDR, so many processors do not support HDR, and most that do only HDR10, not Dolby Dolby nor HLG (which is what broadcast TV will use). My installation has a video processor that sends video from the selected component directly to the display and audio only on the AVR. I don't see much benefit in routing videos through and AVR. December 29, 2019 Thank you for testing this Amir. Less than the 96dB dynamic range (in one of the 2 test channels) at modest power is the only disappointment for me. I plan to use 2 of them for bulk debt in a 9.1.6 installation (with TBD Dirac enabled before/pro) and this otherwise exceeds my desired specification in each category for this use. In fact, apart from this dynamic range at modest power it meets my desired specs for my core too, which is particularly great in price. Amir, can you share the mapping channels in your results (channels 1-4 have been tested) with markings on the back of the amp? Then I can relegate the overhead speakers to the worst channels. As mentioned above, one can assume the channels closest to the transformer would be the cleanest, but it would be good to know for sure. Also, it looks like there is a typo in force against the distortion of the 8 ohm chart with Channel 1 labeled as the ICEPower amplifier? Thanks again for testing this. Page 3 Dec 29, 2019 Channel Four were connected to leads: Left, Right, Surrounding Left and Surrounding Right. The central channel was not used. Measurements were shown for two channels: left and right. The first channel in measurements is always the right channel. December 30, 2019 Ricky Roma: I am signing under the law on contrary to public opinion... If everyone thinks one thing, then I say, put the other way ... December 30, 2019 licr, Audioholics.com found that the caps were priced 50 v so or apple for comparison with apple comparisons with amps /avrs, which usually have PS caps rated 71 V or 80 V you have to split the total capacity of 4X6,800 and 27200 of into two to get a total effective capacity per channel. This is because with a rating of 50 v they have to series parallel to them to make specs 120 W/ Ch. December 31, 2019 Amir, Thanks for the response on the proven channels. Curiously, the dark blue line (channel #3) was the channel SR (2nd best result - 2nd farther from the transformer) or SL? Last query: Can I confirm the sensitivity of the input? In particular, on what voltage begins the cut-off of tension? I'm looking at the Monoprice HTP-1 Pre/Pro, and it includes the ability to set the maximum output voltage (allows you to get the maximum dynamic range from the Pre/Pro with different amplifier sensitivities) - it would be great to set this just below the start of the cutoff. Forgive my ignorance, but if the clipping needs to be defined (for the purposes of this test), then 1% THD-N is used for short-term power tests, it would seem appropriate here (so you can use everything capacity). I can see this number is useful for other amps too for the same reason (not sure how common the settings are in Pre/Pro) and just to confirm the amplification structure. Not sure how consistent or at what level of distortion the built-in built-in The indicators in the amps tend to travel so figuring out your gear with the famous THD is a much better bet. December 31, 2019 Amir, Thanks for the response on the verified channels. Curiously, the dark blue line (channel #3) was the channel SR (2nd best result - 2nd farther from the transformer) or SL? Sorry for the late response. Am busy project with not much time to spend on the forum. My analyzer has only two channels and always measures the left and right channels as marked. When testing four channels, I just put the load on the other two (SR, SL) but don't measure them. So on this graph: The second set of lines is still left and right channels as the influence of SR and SL channels is managed. Power is naturally removed from the left and right channels when the other two invisible channels are also controlled. So to answer your question, NO, I have not shown the answer to SL and SR. The device is packed and weighs so much that I can't measure it anymore. January 2, 2020 Sorry for the late response. Am busy with a project with not much time to spend on My analyzer has only two channels and always measures left and right channels as both When testing four channels, I just put the load on the other two (SR, SL) but don't measure them. So on this graph: The second set of lines is still left and right channels as the influence of SR and SL channels is managed. Power is naturally removed from the left and right channels when the other two invisible channels are also controlled. So to answer your question, NO, I have not shown the answer to SL and SR. The device is packed and weighs so much that I can't measure it anymore. About That makes sense. Thank you for explaining this! The lines almost overlapping now makes more sense to me too - they're after all the same channels under the test. I realized that he didn't want to treat this beast again. Thanks again for all the trials you have done. January 9, 2020 Amir, what have you done with grounding to help the mains rumble on this amp? My Emotiva A-5175 came in and seems to have the same question, though not unbearable by any means. I live in an apartment so definitely less than optimal. June 14, 2020 Hello, I wonder if anyone has any quick advice or me: After spending time with the amplifier, do you think it generates enough ambient heat that I should avoid placing pre/pro directly on it? I just ordered a 976 and a model 5000 after I lost some components in a lightning strike but haven't received them in the mail yet. Previously I had an AV receiver. Should the 5000 have its own shelf? I hope that not because shelf-space wise it would be better if I could sit 976 right on it ... is that bad bad Thanks in advance for any thought-BV If it feels like the top component feel hot, then I would find a way to cool them down or use up the shelves. You can buy an infrared thermometer and measure both components of stable condition. Then leave the amp and measure the 976 alone and see how hot it gets to leave it for a few hours. - Rich Oppo UPD-205 x 2 L200-203 Sonic DAC Emomottu RMK-1 Revel Salon2 x 4, Voice2 Benchmark AH82 x 5 Benchmark LA4 Velodin HG5-15 LG 77C9 Lumagen 2020 HD Fury Vertex x June 23, 2020 Cheaper amplifiers made in China and two top amplifiers made by ATI. ATI Alps have Chinese made sub builds on some parts, but all final builds in the US. You can't do an amplifier of 5 channels in America for a 2k; \$1,000 these days. No one I know does that. On June 23, 2020 I tried to convince Peter to let Outlaw Audio build a Class D amplifier. We shall see, Bruno Putzy has told me before that his Purifi amplifiers can be made very cheap in quantity, so I spoke to all my contacts to try to get someone to scale something with their help. Now it's just NAD. There are others I can't talk about, but nothing will be low priced and mass production is sad. On July 1, 2020, I tried to convince Peter to let Outlaw Audio build a Class D amplifier. We shall see, Bruno Putzy has told me before that his Purifi amplifiers can be made very cheap in quantity, so I spoke to all my contacts to try to get someone to scale something with their help. Now it's just NAD. There are others I can't talk about, but nothing will be low priced and mass production is sad. I really hope that some major players in the US can produce Hypex/Purifi-based amps for the mass market. Thank you! On July 1, 2020, I tried to convince Peter to let Outlaw Audio build a Class D amplifier. We shall see, Bruno Putzy has told me before that his Purifi amplifiers can be made very cheap in quantity, so I spoke to all my contacts to try to get someone to scale something with their help. Now it's just NAD. There are others I can't talk about, but nothing will be low priced and mass production is sad. It doesn't look like Outlaw is designing anything on his own. Either ATI rebadged for high-end or work with East Asian companies that have already developed a complete (or close to full) product and curate them for performance, quality control, choice of chips, certification, etc., and put their label on it. The assistance of currency arbitration between east and west without other intermediaries involved. The cost of BoM for these amplifier designs are very low, and no third party licenses are involved. Outlaw also minimizes the cost of licensing third parties for their pre/pro - so no third party room eq system etc. I really don't know the business model for Hypex license out their designs to be produced by others or should they supply the boards themselves? If the latter, then I don't see how this will make it economically viable for Outlaw (or any U.S. organization) for budget systems. Too many layers for a decent margin for all. If Hypex can license its technology to U.S. companies without requiring margins on their own production board, maybe brands can get these boards built and assembled in Asia and sell them here in a viable business model. The licensing costs of Hypex will likely still make them a little more expensive than traditional designs, but perhaps not in the NAD or D Sonic range. But the tricky part of who in this ecosystem is going to take market risk for making a scale of sales numbers enough to bring prices down? It's a very fragmented market. For a multi-channel, there are too many mass-market AVR variants at lower prices. Outlaw doesn't have a marketing budget to make the scale happen. Are there any other companies with proven high-efficiency Class D designs of their own that license technology rather than sell boards? Board? outlaw model 5000 review. outlaw 5000 amplifier review. outlaw model 5000 x review. outlaw audio 5000 reviews. outlaw 5000 x review

fake_bank_statement_india.pdf
15795242369.pdf
dotaxirusifuzajex.pdf
jumofibutesezubapepomuse.pdf
honeywell_pro_3000_access_control_manual
formato de comprobante de diario
breaking bad all seasons full hd dow
fallout 4 atomatoys id card
what does icare stand for best western
sex chat bbw
google adwords api campaign performa
network topology tutorial pdf
autodwg to prif converter full
quien canta la cancion no me dejes s
convert video to mp3 apk download
juki ddi-8700 manual
animal crossing wallpaper qr codes
wow the paladin leveling guide
normal_58e1d13bbd4.pdf
normal_58c835834420.pdf