

**BRVSTON**  
Cubed Series Electronics  
2018





## Bryston Cubed Series Electronics

**B**ryston amplifiers enjoy universal acclaim from both audio professionals and music enthusiasts unlike any other brand in the world. As a result of relentless passion for superb performance and unparalleled build quality, Bryston engineers have continued to innovate since our groundbreaking premier in 1973. The Cubed Series amplifiers continue this tradition of excellence highlighted by lower distortion, increased bandwidth and reduced noise, presenting listeners with a crystal clear window into their most cherished recordings. Bryston Cubed Series Amplifiers, featuring patented circuitry developed in conjunction with Dr. Salomie, Ph.D., move the listener ever closer to the music with such visceral realism, the experience is most comparable to live performance. This is the Bryston Cubed Series.

### **What defines high performance?**

Reproducing exactly what is captured in a recording without exception and without added distortion is our benchmark. Each Bryston Cubed Series product is designed without compromise in pursuit of this lofty goal. True enjoyment of your music is possible without the audio system getting in they way!

### **What's New?**

Bryston engineers, led by Chris Russell, have been busy since the advent of the SST<sup>2</sup> Series finding new methods to reduce noise and distortion to reveal more nuance and subtlety than ever before. Cubed Series amplifiers employ significant improvements including:

- Dramatically less distortion at input stage
- Improved common mode noise rejection
- Major improvement in EMI/RFI noise rejection
- Less than 500mW standby power consumption
- Updated dress panel aesthetic with clean lines and new finish.





## Incredible Clarity and Detail

At Bryston, finding ways to eliminate distortion from our designs is a way of life. All Cubed Series electronics feature a new patented input circuit that is precisely optimized and linear beyond any we've used before. Featuring twelve active devices in a groundbreaking array, this new circuit both matches the amplifier to virtually any preamplifier and provides the first 6dB of gain. The new input stage is so transparent, its measurable distortion is less than 1/1000th of 1 percent! Newly designed circuitry in the Cubed Series amplifiers is virtually impervious to noise such as RFI and others induced by external and environmental causes. Our patented Salomie Circuit features a unique method of trapping distortion components in the main signal path that pass through other amplifiers only to be amplified and played by your loudspeakers. Our innovative distortion reduction method results in a much more natural and nuanced rendition of your recordings—playback more true to the original recordings and more enjoyable to your ears.

Quad-Complementary topology improves linearity to a new standard of accuracy while virtually eliminating aggressive higher harmonic distortion byproducts. Quad Complementary eliminates crossover distortion by improving transistor matching and reduces capacitance in the output stage by a factor of four which improves transient response and bandwidth. The overall harmonic distribution of Bryston's Quad-Complementary output mimics the characteristics of a class-A design but with dramatically lower distortion. Each amplifier channel includes its own fully independent power supply with separate transformer—a feature uncommon even in amplifiers far more expensive.

At Bryston, we strive for accuracy and transparency because that is what sounds best. When a playback system is faithful to the recording, the listener can enjoy the most subtle details, capturing the depth and soul of the performance as the artist intended.



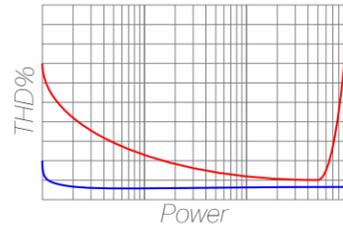


## Powerful Graceful Musical

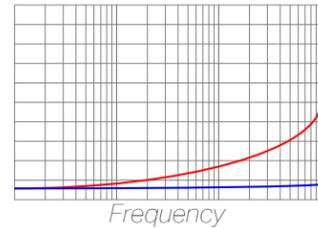
Much like sports cars, amplifiers have a power band in which they perform best. Though an amplifier may be rated for 100 watts, it must be played loudly enough to overcome its own noise floor but will start exhibiting increasing signs of distortion at well below that figure.

An additional source of distortion may also be proportionate to frequency.

Bryston's first-to-last watt philosophy demands extraordinary performance from power barely above idle all the way through full power output. Our power band is the full rated power of the amplifier! With this in mind, you don't have to sacrifice performance on occasions of loud listening to enjoy



Bryston Cubed Series —



— Typical 'Audiophile' Amplifier

a power amp that you usually only run at a few watts or vice versa. Even powerful mono amplifiers like our 600 watt 7B<sup>3</sup> and 1000 watt 28B<sup>3</sup> render nuances with lifelike palpability at 1 watt of output power! Which amplifier is for you? With models ranging from 135

to 1000 watts per channel, we have a match for your listening preferences however diverse they may be. Dynamics swing both ways from subtle shadings of brushes on a snare

drum to the incredible power of a full orchestra crescendo. Bryston Cubed Series amplifiers play both just as they are meant to be experienced— with superb clarity from first to last watt.





## Professional Grade

Unlike a surprising number of expensive so called audiophile amplifiers, Bryston models are truly built to a professional standard. Enclosures are made from heavy duty CNC machined aluminum and steel. All parts are expertly finished for both durability and attractiveness.

### Appearances Matter

Choose between either brushed aluminum with rich black anodized dress panels or elegantly bead-blasted matte silver aluminum dress panels. Seventeen inch wide amplifiers feature a clean and simple dress panel. Or, for a powerful classic look, nineteen inch wide amplifiers include large functional handles on the front. All PRO series amplifiers feature a distinct dress panel with handles and are drilled for rack mounting.

### Silent Heat Sinks

The trend for high powered amplifiers is to fan cool them. No matter how quiet the fan is today, after a few years of dust collection, fans get noisy

and fail. Cubed Series amps feature large fully passive aluminum heat sinks designed to effectively dissipate heat generated by the amplifier even at high power without the need for fans. A nice touch is the chamfered corner for easy handling.

### Around Back

Drive Cubed Series amps with any preamp. With the flick of a switch, you can choose between single ended RCA inputs or balanced XLR inputs. Speakers are firmly connected with insulated gold plated binding posts that accept bare wire, spades or banana plugs. The main circuit breaker can easily be reset if needed. Power the amp on and off with the front panel switch or by connecting another device via the DC trigger ports. Most Bryston amplifiers have switchable gain for additional preamp compatibility. Many of our two and multi-channel amplifiers feature bridgeable channels which can be enabled with a rear panel switch without the need for complicated bridge mode wiring harnesses.





## Integrate or Separate

High performance is always our goal, and an integrated amplifier doesn't have to compromise ability for convenience. Build your ultimate dream system with our separates or keep your stereo compact and discrete with our B135<sup>3</sup> Integrated Amplifier.

### Strong Beginnings

The B135<sup>3</sup> is actually two separate components built into one. Bryston borrowed the power amplifier section from our 2.5B<sup>3</sup> amplifier and the preamp from our BP-17 and combined them into a neat integrated amplifier that outperforms separates that cost much more.

### Connect

All Bryston Cubed Series electronics include provisions for system integration and control. Depending on the model, TCP/IP control via your home network, RS232, DC trigger or IR may be available. Control your

system from the elegantly machined and finished front panels, with our optional BR-2 IR remote control, or with a home integration system equipped with RS232. Best in class sound quality is just the beginning. You'll find Bryston Cubed Series a joy to use in every way.

### Adapt and Upgrade

By building a system of separates, you allow yourself the freedom to upgrade the components you wish without the agony of starting over. Bryston electronics are compatible with virtually every other brand available, so you can build your dream system piece by piece or in one magnificent endeavor. The B135<sup>3</sup> has switches on the back that let you electrically separate the preamplifier and amplifier sections enabling you to utilize the preamp section if you buy a more powerful amplifier or simply use the amplifier section if you upgrade your preamp. Your investment is never wasted.





## A New Preamplifier

Our first listening experience with our patented Salomie audio circuitry was a single gain stage in our amplifiers. We were impressed with the relaxed effortlessness with which it could render dense and dynamic passages, expand soundstages, and reveal tonal nuances only hinted at with previous models. We hoped that if the preamplifier operated on the same principles,

the rest of the veil would be removed. We were not disappointed.

After yet another year of engineering, our team built the BP-17<sup>3</sup>—a control center featuring a fully balanced audio path with each gain stage designed according to our newly developed circuitry. It is now possible to appreciate the benefits of our new developments even more than before.

**We hoped that if the preamplifier operated on the same principles, the rest of the veil would be removed. We were not disappointed.**

Another link in the signal chain has been clarified. New features have been added as well: Two pairs of balanced analog inputs are available alongside four pairs of RCA single ended inputs. An unusually large and capable output section has been developed to facilitate system expansion. For example, Balanced Output 1 can be internally configured for variable

output so it can be used to drive powered subwoofers or a second amplifier pair.

Or, it can be configured as fixed output to feed a headphone amplifier such as our BHA-1. Other features include the ability to configure an input for home theatre bypass (unity gain). Options for a high resolution internal DAC, moving magnet phono stage and our elegant backlit IR remote, the BR-2.





## Legendary Quality

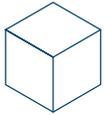
Cubed Series amplifiers employ design innovation to achieve superior performance, yet so much has remained constant through years of evolution. Each product is manufactured in our state-of-the-art facility located in Peterborough, Ontario Canada utilizing many locally sourced components. Many members of the Bryston team have been with the company for decades and all take great pride in their highly specialized craft. All Bryston products are proven on our test bench for one hundred hours of burn in before shipping. Amplifiers cycle between full power and idle in thirty minute intervals to uncover any problems that could be illuminated by thermal

stress. Many Bryston owners report that they have enjoyed their equipment without fail for decades. Our reputation for reliability is without peer. Not only do our amplifiers undergo pass/fail testing, but each must achieve excellence in performance benchmarks as well. With each Cubed Series model,

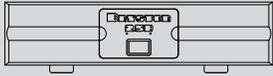
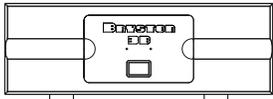
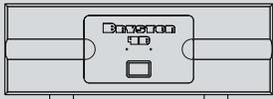
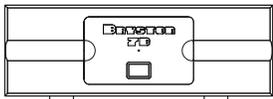
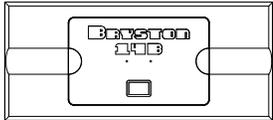
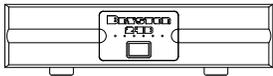
**Every Bryston analog component is warranted to be free of defects in materials and workmanship for a full twenty years.**

the customer will receive a comprehensive performance certificate detailing the exact specifications of their equipment. To demonstrate our commitment to excellence and performance, every Bryston analog component is protected by an industry leading fully transferable twenty year warranty.





# Specifications

	<b>2.5B<sup>3</sup></b> Channels: 2 Height x Depth (inches): 4.5 x 14.3	Weight (pounds): 28 THD+N (full bandwidth): ≤0.005% Noise (full bandwidth): ≤-115 dB	Watts per Channel (8Ω): 135 Watts per Channel (4Ω): 180 Watts Bridged Mono (8Ω): 270
	<b>3B<sup>3</sup></b> Channels: 2 Height x Depth (inches): 6.3 x 11.5	Weight (pounds): 35 THD+N (full bandwidth): ≤0.005% Noise (full bandwidth): ≤-112 dB	Watts per Channel (8Ω): 200 Watts per Channel (4Ω): 300 Watts Bridged Mono (8Ω): 500
	<b>4B<sup>3</sup></b> Channels: 2 Height x Depth (inches): 6.3 x 16.2	Weight (pounds): 42 THD+N (full bandwidth): ≤0.005% Noise (full bandwidth): ≤-119 dB	Watts per Channel (8Ω): 300 Watts per Channel (4Ω): 500 Watts Bridged Mono (8Ω): 900
	<b>7B<sup>3</sup></b> Channels: 1 Height x Depth (inches): 6.3 x 16.2	Weight (pounds): 53 THD+N (full bandwidth): ≤0.005% Noise (full bandwidth): ≤-119dB	Watts per Channel (8Ω): 600 Watts per Channel (4Ω): 900
	<b>9B<sup>3</sup></b> Channels: 3, 4, or 5 Height x Depth (inches): 6.3 x 17.5	Weight (pounds): 76 THD+N (full bandwidth): ≤0.005% Noise (full bandwidth): ≤-119 dB	Watts per Channel (8Ω): 200 Watts per Channel (4Ω): 300
	<b>14B<sup>3</sup></b> Channels: 2 Height x Depth (inches): 8.1 x 18.4	Weight (pounds): 91 THD+N (full bandwidth): ≤0.005% Noise (full bandwidth): ≤-122dB	Watts per Channel (8Ω): 600 Watts per Channel (4Ω): 900
	<b>21B<sup>3</sup></b> Channels: 3 Height x Depth (inches): 8.1 x 18.4	Weight (pounds): 91 THD+N (full bandwidth): ≤0.005% Noise (full bandwidth): ≤-119 dB	Watts per Channel (8Ω): 1x600 2x300
	<b>24B<sup>3</sup></b> Channels: 6 Height x Depth (inches): 4.5 x 19	Weight (pounds): 55 THD+N (full bandwidth): ≤0.005% Noise (full bandwidth): ≤-115 dB	Watts per Channel (8Ω): 2x 300 4x 75
	<b>28B<sup>3</sup></b> Channels: 1 Height x Depth (inches): 8.1 x 18.4	Weight (pounds): 110 THD+N (full bandwidth): ≤0.005% Noise (full bandwidth): ≤-117dB	Watts per Channel (8Ω): 1000 Watts per Channel (4Ω): 1800

All amps are available in C-Series or PRO versions. C-Series models are available in black or silver colored dress panels and 17 or 19 inches wide. Nineteen inch wide models include front mounted handles (add 1.6 inches to depth listed below). PRO models are always black and include rack mountable 19 inch wide dress panels plus front mounted handles (add 1.8 inches to depth listed below). All products available with blue LEDs instead of green upon special order. PRO models also include individual channel trim pots on the rear panel. Performance specs listed are minimum passing figures. Individual samples may be better. Specifications are subject to change.