



Since 1984

# Boulder

# 866

## Integrated

866



### Welcome to Freedom

In the artistic 866 heat sinks, you can see Boulder's freedom of expression. What are they? Trees? Dancing? Everyone who sees them has their own interpretation.

The sound quality matches the stunning 866 chassis by freely expressing all the nuances of your music. No matter your musical tastes, every note will come through, be it straight or bent. Every transient will be heard and felt.

With the Boulder 866, you also will enjoy the freedom from too many interconnection cables. Easier setup and less system trouble is yours.

### Modern Design

When the engineers at Boulder contemplated designing and building the successor to one of its most iconic products, every aspect of the original Boulder 865 was up for renewal. By marrying new and old digital connections to classic balanced analog inputs, sonically perfect volume control, and high power output stage, Boulder was certain to have a winner. The high value of its many features ensured a large number of preorders commensurate with the price.

Over a period of nearly two years, every aspect of 866's build and manufacturing was carefully considered. From the sequence of operations necessary to cut and finish the metalwork down to the very color of the circuit board masking, all processes were

planned for the highest production volume Boulder had ever seen.

As a result, the digital plus analog 866 Integrated with touch screen control, three pairs of analog inputs, a full array of wireless, streaming, networked, and traditional digital inputs delivers performance to challenge any competitor.

The 866 didn't just equal the performance of its predecessor, it exceeded it. It provides peak power of 250 watts into any loudspeaker, an increase of 100W over the 865 and one reason why the 866 Integrated sounds as good as it does. That step up in power equals a step up in control and clarity. You can hear more of the message in the music that your favorite artists wanted you to hear.

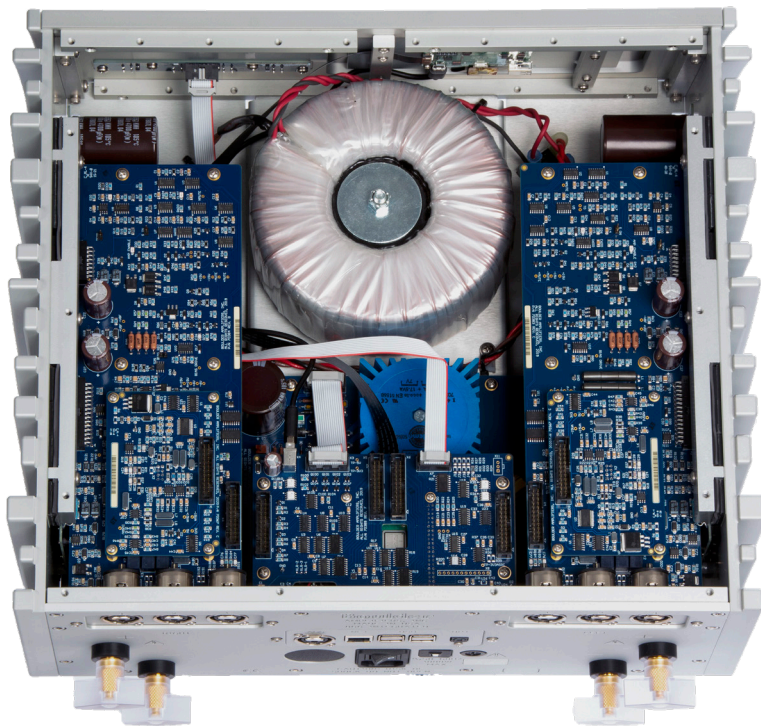
### Touch Screen Features

After you finish gazing at the luxurious heat sinks, the first thing you notice when you see the 866, is the large, full-color touch screen that dominates the faceplate. This screen allowed the Boulder engineers to minimize the number of buttons on the front panel and simplify the use of the product overall. Need to select an input? Swipe left or right over the inputs until the source you'd like to listen to is displayed and then touch that input. In fact, if you'd like to go a little further and identify your sources by photo, your own custom images can be loaded from a smart phone or tablet.

Additional options for input control, setup, and network connectivity can be accessed through the front panel or from Boulder's own control app for Apple and Android devices.

### Analog Design

Boulder has built a reputation as the world's finest audio electronics manufacturer. For over 35 years, Boulder has been chosen to monitor some of the most important recordings ever made because of our unequalled transparency and reliability. The 866 follows suit, mating a balanced, differential input circuit to gain and output sections that incorporate our latest thinking in high current power delivery. The output circuits enable the 866 to deliver higher peak output power into a loudspeaker without increasing distortion.



In conjunction, the fast protection circuit's response time better prevents disasters due to shorted cables or speakers. New techniques for signal path and grounding reduce the residual background noise to below audible levels.

### Digital Design

Modern music delivery is now taking place via network storage and internet connections, while at the same time there are more traditionally connected sources than ever before. The 866 features a full array of available digital inputs that allow many types of connections, from satellite receivers to USB memory sticks to wireless subscription streaming and everything in between. Digital audio data is received and asynchronously converted if necessary, before being processed using Boulder's own proprietary software and DSP to optimize the data and send it to the DAC chips which generate the analog audio.

Throughout the entire digital process, the data is up-and-oversampled to maximize the data rate and reduce distortion to the lowest possible levels. Boulder has equipped the 866 to be a Roon® endpoint, making media browsing and sorting easier and simpler than ever before. Artists, albums, songs and even production teams are cataloged and presented in a way that makes finding your music absolutely effortless.

No matter the digital source, the 866 will allow your music to sound its absolute best.

### Mechanical Design

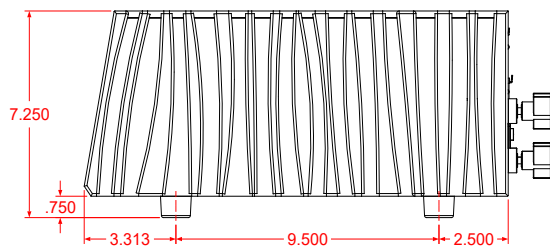
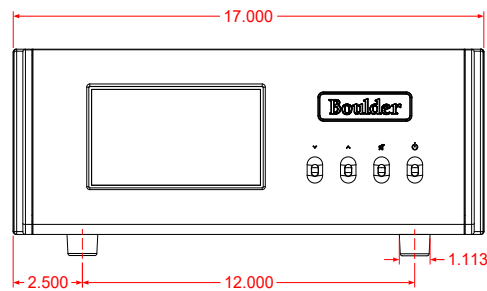
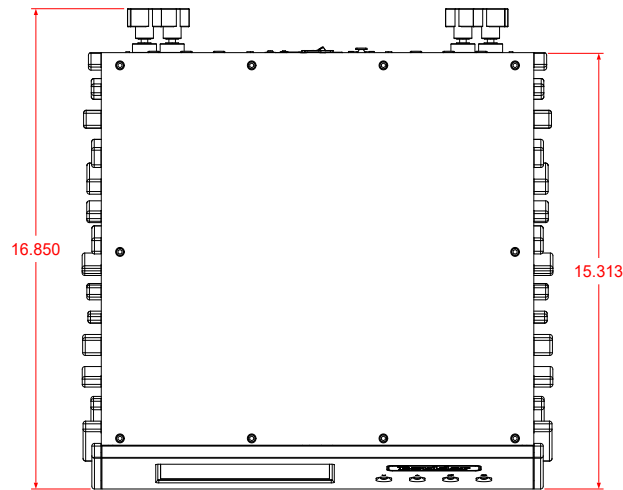
The design of the 866's electronics and casework were optimized for beauty and serviceability. High reliability circuit boards are used throughout.

Every panel of the 866's chassis is milled from a solid plate of aluminum on Boulder's own CNC machining centers before being hand sanded and satin finished. All text on the 866 is engraved rather than printed for longevity. All circuit board assemblies are completed in house to exacting specifications. Various parts of the amplifier—the metalwork, power transformers, circuit boards, display, and connections—are assembled and tested by Boulder's team of dedicated craftsmen and technicians.

Boulder remains one of the last high performance electronics companies to deliver the highest quality through keeping every aspect of manufacturing in our USA factory.

### Designed to Enjoy

All of these features come together in the Boulder 866 to give you listening freedom at the highest level. And you will find your own interpretation of the heat sinks.



### Technical Specifications

<b>Continuous Power, 8 Ohms</b>	200W
<b>Peak Power, 8 Ohms</b>	250W
<b>Continuous Power, 4 Ohms</b>	400W
<b>Peak Power, 4 Ohms</b>	400W
<b>Peak Power, 2 Ohms</b>	700W
<b>Balanced Analog Inputs</b>	3 pairs balanced analog via 3-pin XLR
<b>Optional Digital Inputs</b>	Ethernet, USB-A x 4, Toslink, AES3
<b>Outputs</b>	0.25" (6 mm) binding posts
<b>Distortion, THD</b>	0.01%
<b>Equivalent Input Noise (EIN), 20 kHz</b>	2 $\mu$ V
<b>Input Impedance</b>	100k $\Omega$ Balanced
<b>Frequency Response, 20 Hz to 20 kHz</b>	+0.00, -0.04 dB
<b>Frequency Response, -3 dB</b>	0.015 Hz & 150 kHz
<b>Maximum Analog Gain</b>	40.4 dB
<b>Volume Range</b>	100 dB
<b>Volume Steps, 1.0 dB</b>	$\pm$ 0.01 dB
<b>Power Requirements</b>	100V, 120V, 240V, 50 - 60 Hz (country specific configured)
<b>Power Consumption</b>	1000W Maximum

**All measurements taken at 120V. Specifications are subject to change without notice or obligation.**

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