



CLASSE

**CLASSE**

Source:   
Volume:   
-35.0

SSP-800



**CLASSE**



**CLASSE**



# I NTRODUCTION

In the last quarter century, home entertainment has come of age. You can experience musical and theatrical events in the comfort of your own home, reproduced by systems that easily outperform commercial concert and movie venues.

Alone, with family or when entertaining friends, high-end music and theater systems let you enjoy the luxury and convenience of private performances without leaving home. For those who invest in a Classé-based system, the experience can be truly breathtaking.



T

HE DELTA SERIES



Our flagship Omega series provides the benchmark for all Classé designs. Omega serves as a platform for developing and refining Classé technologies.

The knowledge gained from our Omega Design Project is evident in its successor: the Delta series. The greek letter delta is used in mathematics and engineering to signify difference or change. Beyond exceptional performance and value, Delta series components are easy to use and beautifully finished. Classé Delta series components are built with precision and care; they show that we really love what we do.





*“Love, love, love,  
that is the soul  
of genius.”*

*-Mozart*

We really do love what we do. We want our audio and video equipment to be flawless and to do things that are nearly impossible. To that end, we spend countless hours listening to component parts, trying different circuit designs and PC board layouts, challenging assumptions about the way a system should operate and fussing over every little detail.

To Classé, every detail matters. When everything is right, your experience will transcend the equipment. The role of the Classé Delta series is simple: we want you to love it so much that you forget about it. Whether enjoying a feature film with family or stealing a few private moments to hear a favorite song, you should be immersed in the experience. With the Classé Delta series, you can enjoy your favorite entertainers whenever you want. Just think of it —the luxury and convenience of a private performance at home — without having to feed the band!





CA-2100 POWER AMPLIFIER

# A MPLIFIERS

The power amplifier is the beast of burden — the final link in the electronics chain. Vast power reserves feed large output stages, which are controlled by a delicate input signal. The goal is to carve large and flawless copies of the input signal from a clean and effectively unlimited reservoir of power. These powerful output signals must control and command strict obedience from loudspeakers under constantly changing conditions. Perfection is both challenging and costly to achieve.

Our flagship Omega series amplifier designs are our best and most ambitious. They are used by Classé to probe the limits of sonic and technical performance, with cost as a secondary concern.

For the first time in more moderately priced models, all Classé Delta series amplifiers feature Omega circuit topologies.



CA-2200 POWER AMPLIFIER



CA-3200 POWER AMPLIFIER

These amplifiers represent the best price/performance offering ever from Classé.

Delta series amplifiers share important circuit blocks, adding to the performance benefits of using Classé amplifiers together in multichannel systems. Output channels are designed to be produced as 100W or 200W modules.

These modules are designed to be used in one-, two-, three-, and five-channel models. This efficient approach yields a consistency of performance across the entire range, allowing Delta series amplifiers to deliver stratospheric performance at less than stratospheric prices.

Delta series design features include balanced circuitry, overbuilt power supplies and oversized output stages to ensure the highest performance at every output level, with any loudspeaker. Enhanced protection circuits and intelligent power management add to the value and longevity of Delta series amplifiers while RS-232, IR and DC trigger controls make them well suited for any custom-installed or integrated system control applications.



CLASSE

playlist 14 75:15 total disc time controls

reverse play stop forward

CDP-102

CLASSE

line 1 bal 1

line 2 bal 2

line 3 bass

0.00 100

CP-500

CLASSE

BALANCED

LEFT RIGHT

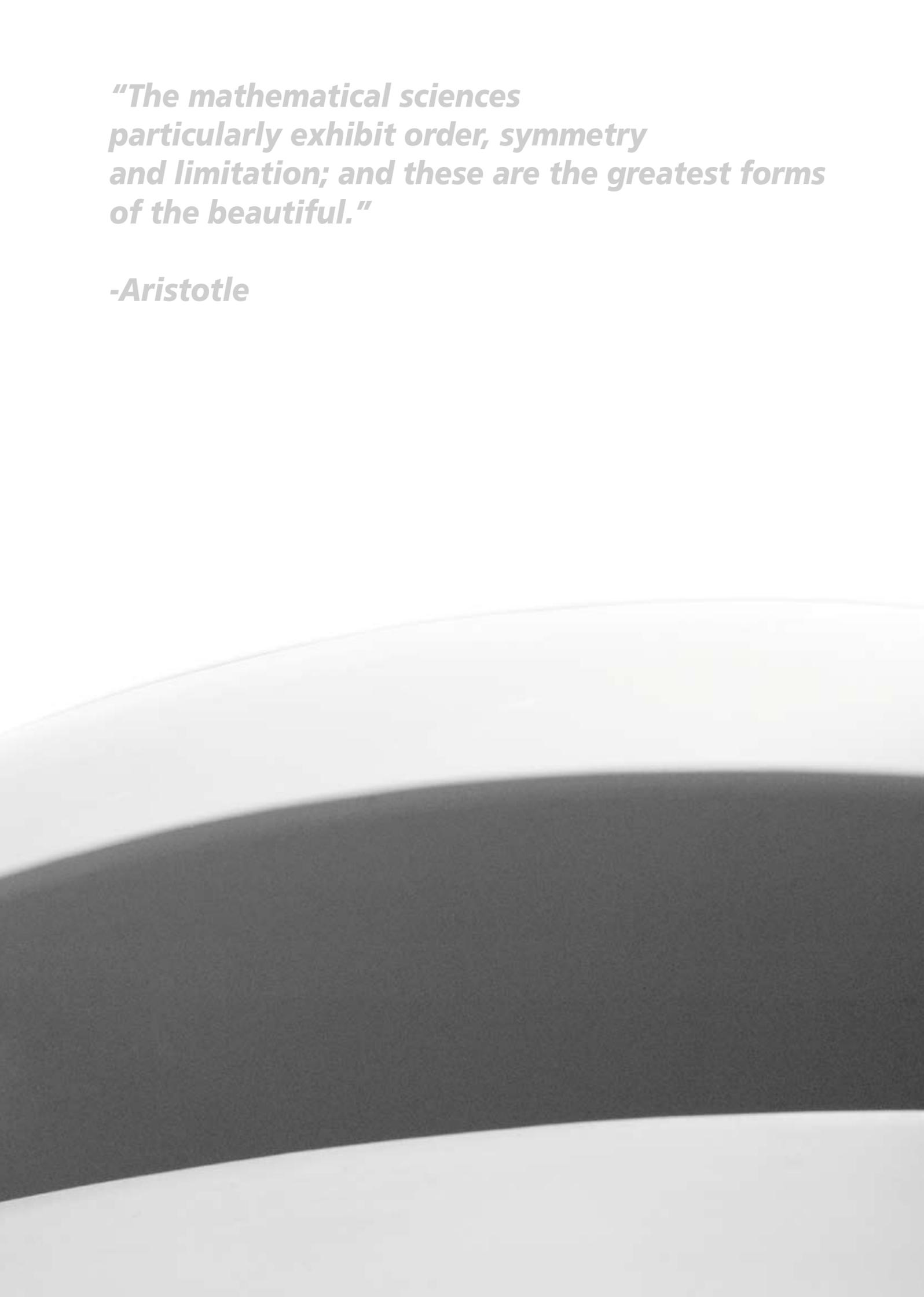
SINGLE ENDED

SELECT MODE

CA-2200

***“The mathematical sciences particularly exhibit order, symmetry and limitation; and these are the greatest forms of the beautiful.”***

***-Aristotle***

The background of the page features a series of smooth, curved lines that create a sense of depth and movement. The color palette is a gradient, starting with a bright white at the top and transitioning through light grey to a dark, almost black, at the bottom. The overall effect is minimalist and modern.



CA-5100 POWER AMPLIFIER



CA-5200 POWER AMPLIFIER

The two stereo amplifiers, CA-2100 and CA-2200, are rated at 100W and 200W per channel at  $8\Omega$ , respectively. The CA-2100 establishes a new entry-level Classé performance benchmark while the CA-2200 is simply our best stereo amplifier.

The CA-3200 and CA-5200 are 3 x 200W and 5 x 200W models, based on the same channels used in the CA-2200. The CA-5100 is a 5 x 100W model based on CA-2100 topologies. Power supply components are comparatively larger in multichannel models to allow for greater power demands without sacrificing performance.



CLASSE

14  
75.15  
FM  
FM  
FM

CDP-102

CLASSE

FM 1  
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FM 3  
FM 4  
FM 5  
FM 6  
FM 7  
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FM 96  
FM 97  
FM 98  
FM 99  
FM 100

CP-500

CLASSE

BALANCED  
LEFT RIGHT  
SINGLE ENDED  
MUTE

EA-2200



CAP-2100 INTEGRATED AMPLIFIER



CA-M400 POWER AMPLIFIER

The CAP-2100 is designed for two-channel music systems where the convenience and simplicity of a high-performance integrated amplifier are required. Exceptional value is achieved by integrating the circuitry of a separate Classé preamplifier (CP-500) and amplifier (CA-2100) into a single chassis. The result is a beautifully packaged jewel, capable of startlingly lifelike sound at a comparatively modest price

The CA-M400 is a 400W monaural amplifier. Balanced throughout, the CA-M400 also uses our 200W modules, but configured in balanced output mode. One module amplifies an inverted signal while the other handles a non-inverted signal. Our balanced output stage cancels noise and distortion and yields higher power without reducing low impedance drive capability. Music lovers seeking the benefits of high-end monaural amplifiers and multichannel enthusiasts who can afford the price of admission will find the CA-M400 an ideal choice for a no-compromise Delta series Classé audio system.

For more detailed descriptions, please visit the Classé Web site: [www.classeaudio.com](http://www.classeaudio.com).





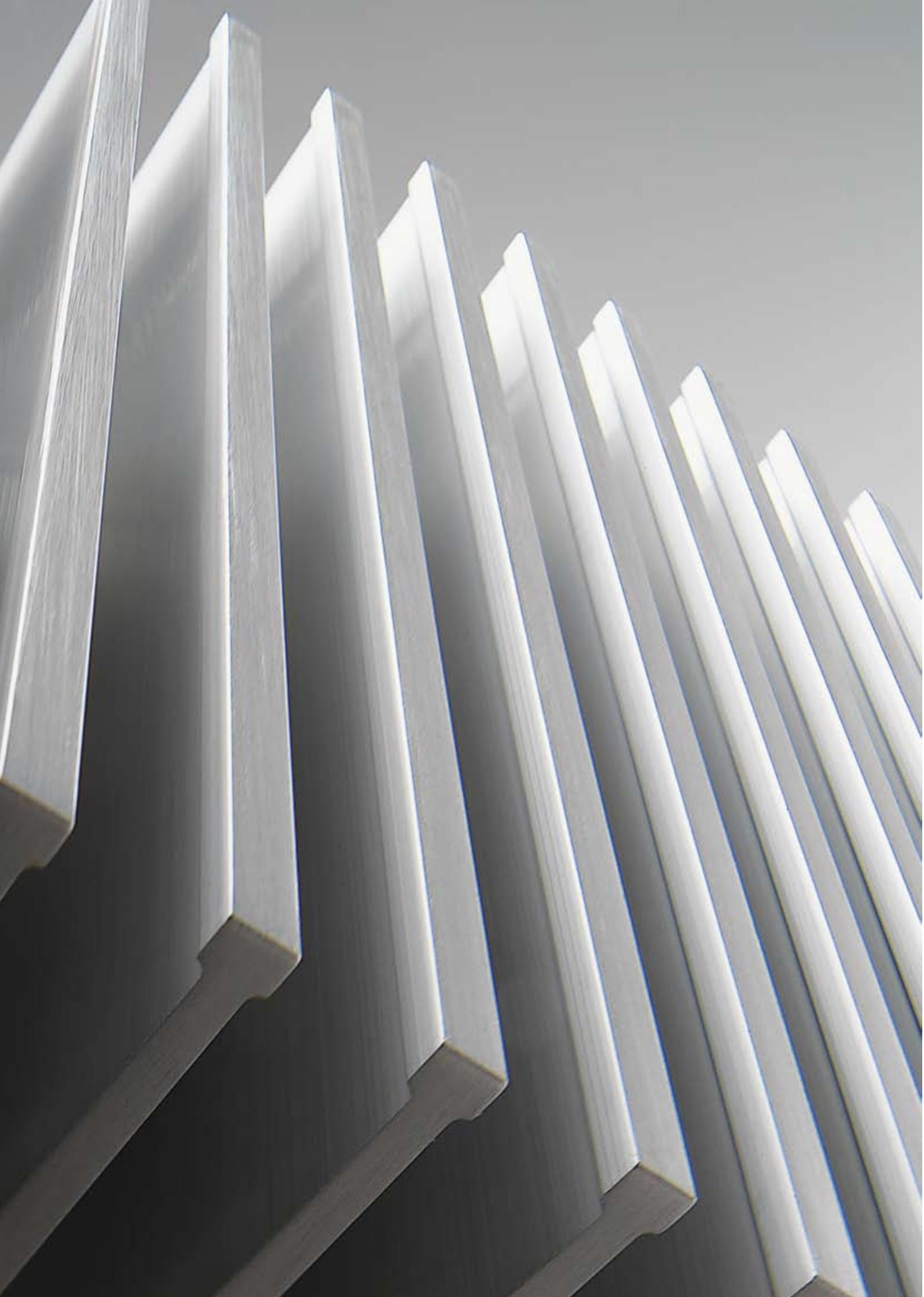
SOLOMON R. GUGGENHEIM TH



ENTRANCE







CLASSE

phono

Tuner

Music Server

CD

DVD

tape

61.0

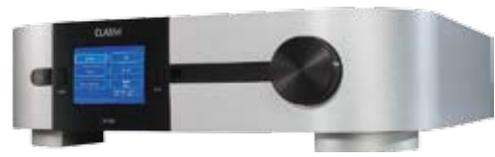
STANDBY

MENU

CP-700



CP-700 PREAMPLIFIER



CP-500 PREAMPLIFIER

# PREAMPLIFIERS

Preamplifiers have long been regarded as the gatekeepers of high-performance audio systems.

Their primary functions are straightforward: control volume and select sources.

To handle these tasks without compromising performance, Classé develops advanced analog circuit topologies. We invest in premium parts and carefully route power, ground and signal pathways to optimize the performance of our designs. We completely isolate each input to eliminate interaction among source components. Our high-precision, balanced volume controls are decoupled from interconnects and other system components to ensure the most neutral and consistent performance, regardless of volume setting.

In short, we carefully consider the consequences of every design choice because everything matters.

The Classé CP-500 and CP-700 are outstanding examples of attention to detail, superior performance and value. Both utilize fully-balanced circuitry, implemented symmetrically to reject noise and distortion. The CP-700 achieves the highest performance by using a special low-noise outboard power supply. It also features independent balanced and single ended paths that are each handled differentially. Both preamps offer simple and elegant operation and control via TFT touchscreen, RS-232 and IR remote.



SSP-800 SURROUND SOUND  
PROCESSOR

# P PROCESSORS

The surround sound processor is the core of a high-end home theater system. It directly connects to almost every other component in the system and can either limit or reveal their true potential. Starting over two years ago, the Classé Design Team began an extensive evaluation of the new breed of high definition audio and video technologies. Their research served as the inspiration for a new challenge: the creation of the definitive SSP—a surround sound processor to set the standard as the high definition era dawns. The result is the SSP-800, Classé's statement preamp/processor.

The SSP-800 was conceived with pure performance as its *raison d'être*. It can seamlessly weave audio and video into a faithful reproduction of the original master, reproducing music and movies exactly as the artists imagined. It was created by people who are uniquely qualified, having both the technical skill and aesthetic judgment to bring performances to life.

In recent years the development of high definition audio and video has accelerated, rendering many relatively new home theater components incompatible or obsolete. The early adopter's quest for the latest technology is never cheap or without risk. But those who sought out the highest quality components have been able to relax and enjoy them. They know that the latest technology is rarely a threat to genuine quality.

When a new component is released which wraps important new technologies in a package of superior quality, it is time to sit up and take notice. The introduction of the SSP-800 is just such an occasion, when enthusiasts should consider upgrading their systems.

CLASSE

-41.5

input 2  
multi-channel

-41.5 dB

MUTE

SSP-800



*"Give me the luxuries of life and I will willingly do without the necessities."*

*- Frank Lloyd Wright*



The SSP-800 is a ten-channel preamp/processor, offering both balanced and single-ended connections for all channels. Audio Digital Signal Processing (DSP) is handled by a Texas Instruments-based platform which operates in 64-bit double precision. It uses floating point arithmetic for all audio signal calculations to ensure the most accurate results possible. All bass management filters, level adjustments and parametric filters also benefit from the added precision. To ensure the SSP-800 retains its value and competitive edge, the Classé Design Team has designed the DSP onto a replaceable module to accommodate a planned future upgrade.

Superior audio performance is achieved by combining this powerful DSP with balanced topologies, advanced component parts and meticulous circuit layout. A dedicated linear power supply using a low-noise toroidal transformer powers the analog audio circuits. Digital and control circuits are powered by their own dual-output, low-noise, high-current switching supply.

High quality digital-to-analog converters and output stage components are configured to ensure exceptional dynamic range and resolution. Audio circuits are isolated from video and control circuits by optocouplers and low voltage differential signal (LVDS) pathways. Digital and analog circuits and grounds are isolated from each other among and within circuit boards.

Throughout the SSP-800 there are examples of HD technology executed at the highest quality level. It is the combination of advanced technology and genuine quality that sets the SSP-800 apart. And while technology and quality give the SSP-800 its intrinsic value, we measure its true worth first on the test bench and then in the sound room.





CDP-102 CD PLAYER



CDP-202 CD PLAYER

# SOURCE COMPONENTS

Our experience has shown us that every detail matters. We have seen how small, unimportant distortions will combine with and be added to other seemingly unimportant distortions. Each component in the system will add its own small, seemingly unimportant distortions until eventually, a sound and picture emerge that includes the sum total of everything that's gone wrong in the system. Not the most encouraging thought perhaps, but useful to consider as we build a true high-fidelity entertainment system.

If every component degrades the signal by some amount, we must place great emphasis on accurately recovering the signal from the disc, the broadcast, or wherever it originates. The simple logic is confirmed by what we hear: if we start with a better signal, we will hear a better signal.

A world-class entertainment system starts with Classé source components. Our Delta series offers a variety of disc players available in several different configurations to suit your particular requirements.

The CDP-102 and CDP-202 are single-disc CD players that feature both balanced and single-ended analog outputs. Since they share the same disc-reading platform as our other Classé Disc Player designs, they can also read DVD-Audio and the other disc formats supported by the CDP-300 DVD Player. The CDP-202 offers the highest performance for true reference-caliber audio playback.



CDP-300 DVD PLAYER



CDP-502 REFERENCE DISC PLAYER



CDT-300 DVD TRANSPORT

Blu-ray Disc players offer the potential of high quality audio and video from Blu-ray Discs, but the challenge of extracting the most from DVD and CD remains unchanged. No Blu-ray player can match the performance of Classe's CD and DVD players, so they remain an essential component of a high-resolution AV system.

The CDP-300 offers six high-quality analog audio channels as well as progressively scanned and scaled analog and digital video. The CDP-300 can output video for all rates covered in the HDTV specification, including 1080p on HDMI. As with other Delta series disc players, the CDP-300 features a TFT preview screen and touch-screen control to enhance and simplify operation. The CDT-300 DVD transport is designed for home theater applications involving exclusively digital audio connections. It is a CDP-300 with no analog audio output.

For the ultimate in reference quality two-channel audio and HD video, the CDP-502 Reference Disc Player combines the audio of a CDP-202 CD Player with the video of our CDP-300 DVD Player in a single high-performance CD/DVD chassis.

For more detailed descriptions, please visit the Classé Web site: [www.classeaudio.com](http://www.classeaudio.com).





# C

LASSÉ SOUND  
& PICTURE

Great entertainment systems entertain. Sometimes the performance is thrilling. Other times scary, depressing, suspenseful or joyful. These emotions and all the others are felt more dramatically when sounds and pictures are reproduced with the greatest care. At Classé, our primary goal is to produce the electronic components that make up a truly remarkable entertainment system.

To select, transfer, process, transform and amplify audio and video signals in various analog and digital media is complicated, but not expensive. Components available for remarkably low cost can perform these tasks. But there is no denying the hierarchy that exists. Some systems significantly outperform others. It is in the margin between making it work and making it entertain, where Classé focuses its resources. We go well beyond simply making sound and picture. The Classé sound and picture are valued because they make good entertainment remarkable.

## Remarkable Sound

### Balanced from lowest bass to highest treble

As an overall goal, we try to avoid having our equipment draw attention to itself by over- or under-emphasizing any particular part of the audio or video spectrum. A system that's too bass heavy or too lean, one that's overly bright or dark sounding, or one with too much or too little midrange presence tends to favor some recordings over others.

The result is that only a small portion of one's recording collection sounds close to being right. A Classé system is balanced throughout the full range of the audio spectrum, so you can enjoy the full range of recordings available.

### Freedom from grain and harshness

Maximum enjoyment from an audio system requires that sounds which are supposed to be sweet and delicate are reproduced that way. In fact, some sounds are intentionally harsh and should be reproduced that way, without the equipment editorializing. Systems that are free of added grain and harshness sound clearer and more lifelike. What's more, they can be enjoyed for hours without fatigue. If you find yourself bored or tired of listening after short periods, chances are that distortions including grain and harshness are getting between you and your music or soundtrack. A Classé system is free of grain and harshness, so it never gets between you and your musical or sonic experience.

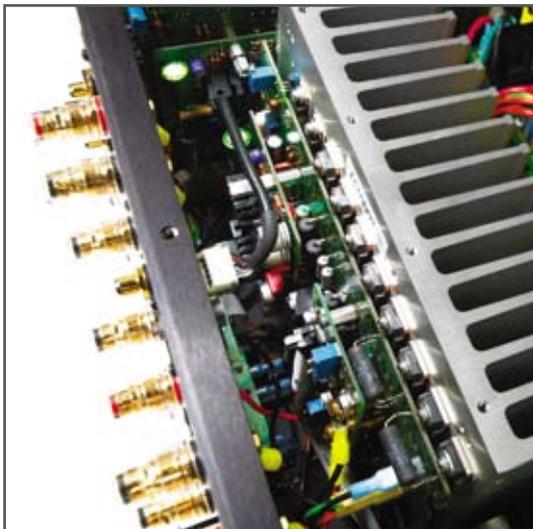
### **Perception of pitch, pace and timing**

Certain characteristics, perhaps above all others, set apart the most musical and engaging audio systems. Those characteristics are variously described in musical terms such as pitch, pace and timing, which are closely related to your audio system's dynamic capabilities. Reproducing sounds that are loud is easy. Making sounds soft? No problem. Creating systems that can do both at the same time and effortlessly transition from one to the other are rare indeed. Even more scarce are the systems that can handle these challenging transitions effortlessly at all frequencies.

Can you distinguish the difference in pitch between two drum beats where the head of the drum is struck in slightly different places? Revealing these and other subtle details is how remarkable audio systems distinguish themselves from ordinary ones. Listen to a Classé system and you'll find the sound to be engaging. It will draw you in because the details of music's fundamental building blocks —rhythm and tonality —are preserved.

### **Accurate imaging**

Many recordings are created in a studio, sometimes with non-acoustic (electronic) instruments, and often with musicians recording their parts separately. In other words, they are recordings which are not preserving a single musical event. They are not preserving the sounds generated by humans playing together with acoustic instruments. They are simply modern expressions of the ancient music and theater art forms. They are intended to "happen" in your home or wherever you play them back. Whether the recording has preserved a musical event or been created with the intention that it be recreated in your home, remarkable systems play their part in a grand illusion.



Much of the fun of a great audio system lies in the degree to which we can create an illusion that players are on a stage in our room. With movie soundtracks, the sounds are often fantasy, creating the illusion that you're doing something you have never done before. You could be on board a space ship or walking through a jungle —something few of us will ever do. Either way, an audio system should recreate the placement of sounds and how they move in three-dimensional space to trick us into thinking we are immersed in something real, like a premium seat at the symphony or on our way to another galaxy. We call this characteristic "imaging" and a Classé system will preserve the complex spatial and phase relationships within the recording to be faithful to the illusion —and be more involving.



### **Any genre**

Remarkable audio systems are a season pass to your favorite movie theaters and concert venues, anywhere in the world. Whether you favor a night at the opera, an outdoor jazz festival or action adventure movies, better systems are able to recreate the unique sounds involved.

Human voices, pianos, crickets and jet engines are distinctly different sound-makers and Classé systems are designed to convincingly recreate them all. Said another way, the performance qualities required to accurately portray subtle detail or shocking power are well-balanced in a Classé system.

### **Play poor as well as good recordings**

Some of the most magical musical and theatrical performances were recorded decades ago, under difficult conditions or with flawed recording equipment. Yet somehow, great systems find a way to make the technical limitations of the recording less obtrusive. Think of an ancient artifact or a satellite photo. Only the most careful handling and advanced technology can extract the smallest details and reveal the truth. Classé systems are worth their price because they tell the truth and reveal the beauty in each of your favorite performances.

### **Remarkable Picture**

As with audio, video plays its part in a grand illusion, to suspend disbelief and add depth to the experience. Getting the picture right is as important as getting the sound right and we have gone to great lengths to achieve outstanding video performance.

### **Color accuracy**

Whether producing the green turf of a playing field or an artist's imagination of the atmosphere on Mars, color accuracy is a fundamental requirement for high fidelity video systems. At Classé, we take great care to ensure that video signal paths can pass the full range of frequencies without adding to or subtracting from particular colors.

### **Accurate gray scale from white to black**

Your video system's ability to accurately handle black and white is a crucial component in the fidelity of its color pictures. The difference between the blackest black and the whitest white represents the dynamic range of the video system. Accurately reproducing every shade of gray in between ensures that the colors and images are all produced at the proper brightness. Classé power supplies play an important role supporting the gray scale accuracy of our signal path with even the most demanding range of video signals.



**Resolution**

As with audio, resolution can be reduced at any point in the video chain. Careful handling and processing of signals and the use of premium component parts helps Classé deliver the highest resolution possible from a wide range of video sources.

**Freedom from noise, grain and artifacts**

Classé components handle both analog and digital video signals. Broad bandwidth and low noise power supplies are essential to reproducing a clean and smooth signal. Digital processing adds its own layer of complication, making the reduction of artifacts a primary concern. Ordinary video systems often boast impressive resolution numbers, but fail to execute at a high enough level to avoid distracting artifacts. Premium parts, quality power ground planes and careful board layout help Classé achieve remarkable results —video that doesn't distract.

**Compatible with a wide range of display devices**

Like amplifiers that must work well with many different loudspeakers, video players and processors must get the best from a wide range of display devices. Classé addresses the issue on several levels. Robust output stages are designed to maximize performance realized with composite, S-video, component and HDMI connection formats. Variable resolution allows users to optimize the performance of their particular display device. The result is remarkable performance from a vast range of different video sources and displays.

**Capable of flawless conversion between video formats**

In addition to supporting high-performance from multiple video interfaces, Classé processors convert between formats in the digital domain. The result is simplified system interconnection and user interface, and enhanced performance with high resolution display devices.

While the audio system gets much of the credit for capturing the emotional component, video is king when it comes to suspending disbelief. Together, audio and video reproduction at the highest performance levels can lead to a remarkable entertainment experience. Classé is dedicated to building components that truly entertain.



# SPECIFICATIONS

Perfection is our goal: perfect execution, perfect operation and perfect performance. Of course, no product has yet attained this ideal. However, at Classé we continuously challenge ourselves to peel back the ever-diminishing layers of imperfection to give you the performance as it was originally intended.

In technical terms, we come close to perfection. What tiny distortions that remain are far too small to be individually heard or seen. Their presence can only be confirmed by specialized test equipment. But our brains' ability to process complex waveforms keeps us from being easily fooled. We can often see and hear things that are complicated and difficult to measure directly.

This dichotomy fuels an endless debate about the relative roles of art and science in the construction of high-fidelity entertainment systems. At Classé, every effort is made to reconcile subjective observations and objective performance criteria. In the end, what we see and hear is what matters most.

The specifications we publish are intended to answer your most basic technical questions and to provide a means for comparison of models within the Classé range. Comparing numbers with those published by other manufacturers may be misleading, since other companies frequently use more liberal measurement techniques and optimistic technical claims. Trust most what you see and hear.



**amplifiers** **CA-2200/CA-3200/CA-5100/CA-5200/CA-M400/CA-2100**  
**(balanced inputs)**

voltage gain	29 dB	model	rated power consumption
bandwidth	155kHz (-3dB), 22kHz (-0.1dB)	CA-5200	1056W
bandwidth (CA-5100)	127kHz (-3dB), 22kHz (0.1dB)	CA-3200	672W
phase	< -10° (22kHz)	CA-5100	575W
sensitivity		CA-2200	480W
CA-2200/CA-3200/CA-5200	1.4Vrms	CA-M400	480W
CA-M400	2.0Vrms	CA-2100	260W
CA-2100/CA-5100	1.0Vrms		

power/channel (continuous)  
 (120VAC line, 1kHz signal regulated to 1% THD+N into resistive load,  
 all channels driven)

load (resistive)	CA-M400	CA-2200	CA-3200	CA-5100	CA-5200	CA-2100
8Ω	400W	200W	200W	100W	200W	100W
4Ω	800W	400W	390W	190W	370W	200W

THD + noise  
 (unweighted, 10Hz - 500kHz bandwidth, 1Vrms/1kHz input except for CA-2100 and CA-5100: 0.8Vrms input)

load (resistive)	CA-M400	CA-2100, CA-2200, CA-3200, CA-5200	CA-5100
none	0.001%	0.002%	0.002%
8Ω	0.003%	0.003%	0.003%
4Ω	0.005%	0.005%	0.004%

noise  
 FFT noise floor peaks all below -95dBV  
 (with terminated inputs)

S/N ratio (relative to 1kHz sine wave full level output into 8Ω)

CA-M400	CA-2200/CA-3200/CA-5200	CA-2100/CA-5100
112dB	108dB	105dB

product	height	depth (excluding connectors)	width	gross weight	net weight
CA-2200	8.75" (222 mm)	18.5" (470 mm)	17.5" (445 mm)	92 lbs (42 kg)	80 lbs (36 kg)
CA-3200	8.75" (222 mm)	18.5" (470 mm)	17.5" (445 mm)	102 lbs (46 kg)	90 lbs (41 kg)
CA-5100	6.75" (171 mm)	18.5" (470 mm)	17.5" (445 mm)	88 lbs (40 kg)	75 lbs (34 kg)
CA-5200	8.75" (222 mm)	21.0" (534mm)	17.5" (445 mm)	133 lbs (60 kg)	121 lbs (55 kg)
CA-M400	8.75" (222 mm)	18.5" (470 mm)	17.5" (445 mm)	94 lbs (43 kg)	82 lbs (37 kg)
CA-2100	4.75" (121 mm)	16.5" (419 mm)	17.5" (445 mm)	55 lbs (25 kg)	47 lbs (21 kg)



<b>model</b>	<b>CAP-2100</b>
frequency response	10Hz to 22kHz $\pm$ 0.1 dB
distortion (THD + noise)	0.005% (unweighted, 0.8Vrms/1kHz input, 10Hz - 80kHz)
<b>analog section</b>	
sensitivity	1.0Vrms (balanced input, volume 86)
S/N ratio	95dB typical
channel separation	>95dB@ 20kHz
<b>power amp section</b>	
power/channel (continuous) (120VAC line, 1kHz signal regulated to 1% THD + noise into resistive load, all channels driven)	
load (resistive)	
8 $\Omega$	100W
4 $\Omega$	200W
<b>inputs</b>	
single-ended inputs	3pr RCA (incl. 1pr w/ phono option)/100k $\Omega$
single-ended tape inputs	1pr RCA / 100k $\Omega$
balanced inputs	1pr XLR / 200k $\Omega$
<b>outputs</b>	
speaker	2pr
single-ended (preamp out)	1pr RCA
balanced	none
tape out	1pr RCA
<b>power consumption</b>	
rated power consumption	260W
idle	125W
<b>weights &amp; measurements</b>	
width	17.5" (445 mm)
depth	16.5" (419 mm) (excluding connectors)
height	4.75" (121 mm)
gross weight	59 lbs (27 kg)
net weight	50lbs (23kg)

<b>model</b>	<b>CP-500</b>	<b>CP-700</b>
frequency response	20Hz - 200kHz $\pm$ 0.1dB	20Hz - 200kHz $\pm$ 0.1dB
distortion (THD + noise)	0.003%	0.0012%
<b>analog section</b>		
single-ended input (max level)	5Vrms	5Vrms
single-ended output (max level)	10Vrms	10Vrms
balanced input (max level)	10Vrms	10Vrms
balanced output (max level)	20Vrms	20Vrms
signal to noise ratio (unweighted)	100dB	100dB
channel separation	>110dB	>110dB
<b>inputs</b>		
single-ended inputs (no./impedance)	3pr RCA (incl. 1 pr w/phono option)/100k $\Omega$	3pr RCA (incl. 1 pr w/phono option)/100k $\Omega$
single-ended tape inputs (no./impedance)	1pr RCA / 100k $\Omega$	1pr RCA / 100k $\Omega$
balanced inputs (no./impedance)	2pr XLR / 200k $\Omega$	2pr XLR / 200k $\Omega$
<b>outputs</b>		
single-ended	1pr RCA	1pr RCA
balanced	1pr XLR	2pr XLR
tape out	1pr RCA	1pr RCA
<b>weights &amp; measurements</b>		
width	17.5" (445 mm)	17.5" (445 mm)
depth	16.5" (419 mm) (excluding connectors)	16.5" (419 mm) (excluding connectors)
height	4.75" (121 mm)	4.75" (121 mm)
gross weight	33 lbs (15 kg)	45lbs (20kg)
net weight	26 lbs (12 kg)	23lbs (10kg) (preamplifier) 10lbs (5kg) (power supply)
<b>external power supply</b>		
width	-	5" (127mm)
depth	-	12" (305mm)
height	-	5.5" (140mm)





<b>Source Components</b>	<b>CDP-102/CDP-202/CDP-300/CDP-502</b>
THD + noise	0.001% ref 1kHz 0.001% ref 10Hz – 20kHz
signal to noise ratio	107dBFS (unweighted), 22Hz - 22kHz, based on a 1kHz, 0dBFS, CD resolution reference signal
audio sample rate	192 KHz
output level balanced	4 Vrms
output level single ended	2 Vrms
frequency response	
CDP-102/CDP-300	8Hz – 20kHz balanced +0dB/-0.1dB, 8Hz – 20kHz single ended +0dB/-0.7dB
CDP-202/CDP-502	8Hz – 20kHz balanced +0dB/-0.4dB, 8Hz – 20kHz single ended +0dB/-0.4dB
channel separation	
CDP-102/CDP-300	124dB @ 1kHz, 112dB 16Hz – 20kHz
CDP-202/CDP-502	126dB @ 1kHz, 115dB 16Hz – 20kHz
D/A converter	
CDP-102	1 x Cirrus Logic CS4398
CDP-202/CDP-502	3 x Burr Brown PCM1792
CDP-300	3 x Cirrus Logic CS4398

**formats supported**  
 CD, CD-R, CD-RW, DVD Audio & Video, VCD, SVCD,  
 MP3, WMA, DVD-R, DVD+R, DVD-RW, DVD+RW

<b>weights &amp; measurements</b>	
width	17.5" (445mm)
depth (excluding connectors)	16.5" (419mm)
height	4.75" (121mm)
gross weight	35 lbs (16kg)
net weight	26 lbs (12kg)

<b>CDP-102/CDP-202</b>	<b>power consumption</b>	55w
<b>outputs</b>		
2 x RCA		
2 x XLR		
Coax S/PDIF 1 x RCA		
AES/EBU 1 x XLR		
Optical 1 x Toslink		
S Video		
Composite		

<b>CDP-300/CDP-502</b>	<b>power consumption</b>	72w
<b>audio outputs</b>		
6 x RCA		
2 x XLR		
Coax S/PDIF 1 x RCA		
AES/EBU 1 x XLR		
Optical 1 x Toslink		
<b>video outputs</b>		
HDMI	yes	
Component (progressive scan)	yes	
S Video	yes	
Composite	yes	

**internal scaling**  
 480i (via all video outputs)  
 480p (via component & HDMI)  
 720p/ 1080i/ 1080p (via HDMI)

<b>CDT-300</b>	<b>power consumption</b>	55 watts
<b>formats supported</b>		
CD, CD-R, CD-RW, DVD Audio & Video, VCD, SVCD, MP3, WMA, DVD-R, DVD+R, DVD-RW, DVD+RW		
<b>weights &amp; measurements</b>		
width	17.5" (455 mm)	
depth (excluding connectors)	16.5" (419 mm)	
height	4.75" (121 mm)	
gross weight	35 lbs (16 kg)	
net weight	26 lbs (12 kg)	

**audio outputs**  
 Coax S/PDIF 1 x RCA  
 AES/EBU 1 x XLR  
 Optical 1 x Toslink

**internal scaling**  
 480i (via all video outputs)  
 480p (via component & HDMI)  
 720p/ 1080i/ 1080p (via HDMI)

**video outputs**  
 HDMI  
 Component (progressive scan)  
 S Video  
 Composite



<b>model</b>	<b>SSP-800</b>	<b>total harmonic distortion</b>	0.001 %
<b>inputs and outputs</b>		<b>digital source / bypassed analog source</b>	0.002 %
HDMI 1.3	4 in / 2 out	<b>processed analog source</b>	
Component	2 in / 1 out	<b>frequency response</b>	20Hz – 200kHz <0.1dB
S video	2 in	<b>stereo analog bypass</b>	20Hz – 20kHz <0.2dB
Composite	2 in	<b>all other sources</b>	
COAX	4 in / 1 out	<b>signal to noise ratio</b>	102dB unweighted
Optical	4 in / 1 out	<b>bypassed analog source</b>	100dB unweighted
Analog XLR	1 pair in / 5 pair out	<b>processed analog source</b>	105dB unweighted
Analog RCA	1 set 7.1 in / 2 pair in / 5 pair out	<b>digital source</b>	
DC trigger out	2		
IR	1 in / 1 out		
CAN Bus	1 in / 1 out	<b>audio formats</b>	Dolby Digital Surround EX
USB	1		Dolby Digital 5.1
RS-232	1		DTS-ES discrete
			DTS 3/2/1
			DTS 96/24
			24bit/32-192kHz PCM
			<i>Dolby True, DTS-HD Master Audio decoding will be supported after free DSP upgrade</i>
<b>video measurements</b>		<b>post processing modes</b>	Dolby pro logic IIx
<b>input impedance</b>	75 ohms		DTS-ES matrix
	composite / s video / component		DTS Neo:6
<b>output impedance</b>	75 ohms		Mono
	component		Mono plus
HDMI	fully 1.3 compliant supporting 1080p @ 24/50/60fps, 36-bit deep color and xvYCC		Stereo (downmix)
			Music plus
<b>audio measurements</b>			Movie plus
<b>maximum output level</b>	8vrms		Party
	single ended		
	15vrms	<b>video conversion</b>	composite / s video to component and HDMI
	balanced		component (upto 720p-1080i) to component and HDMI
<b>maximum input level</b>	2vrms		HDMI to HDMI
	single ended via DSP	<b>rated power consumption</b>	75w
	6vrms		
	single ended via bypass	<b>weights &amp; measurements</b>	
	4vrms	<b>width</b>	17.5" (444mm)
	balanced via DSP	<b>depth</b>	16.5" (419mm) excluding connectors
	12vrms	<b>height</b>	6.75" (172mm)
<b>output impedance</b>	56 ohms	<b>net weight</b>	29lb. (13kg)
<b>input impedance</b>	100kohms	<b>gross weight</b>	38lb. (17.25kg)



***“We shape our  
buildings: thereafter  
they shape us.”***

***-Sir Winston Churchill***

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## **Classé Audio**

**5070 Francois Cusson  
Lachine, Quebec  
Canada H8T 1B3**

**+1 (514) 636-6384  
+1 (514) 636-1428 (fax)**

**[www.classeaudio.com](http://www.classeaudio.com)  
email: [cservice@classeaudio.com](mailto:cservice@classeaudio.com)**