



C 565BEE CD Player



> POSITIONING

Long sought after as the 'Best Buy' solution for the music lover on a budget, NAD has proven to be a serious contender in the ultra high end of the market. Our top performing Masters Series has won an impressive number of industry awards — from the coveted EISA award to Stereophile Class A and Hi-Fi Choice Reference status and Best Buy accolades. These premium products are at the top of the market.

Yet we all aspire to own the best we can afford. The C 565BEE, at the top of NAD's Classic Series range, has performance that is very close to our vaunted Masters Series M5 CD Player, yet costs half as much. **You'll notice right away from the newly refined cosmetics and solid construction that this is one very serious high end component.**

> FEATURES

- Plays CD, CD-R/-RW
- USB Input allows playback from solid state memory devices and plays MP3 music files up to 320kbs/VBR
- SPDIF Optical Input
- Coax and Optical SPDIF Outputs
- Decodes MP3 and WMA music files via CD-R
- Displays CD Text and MP3 Meta Data
- Sample Rate Converter upsamples 44.1kHz and 48kHz recordings to 96kHz or 192kHz [selectable]
- Selectable Digital Filter Slopes
- Wolfson 24/192 DACs in Dual Differential configuration
- Toroidal Power Transformer
- Gold Plated Sockets
- IR Input/Output
- 12 volt trigger input
- RS-232 Serial Interface Port
- Detachable AC Cord
- 12 volt trigger out
- Detachable IEC Power Cable
- <1W Standby Power Consumption
- Free of lead and other environmentally dangerous substances

> DETAILS

Performance

The C 565BEE applies the very latest in semiconductor design to make an all new CD Player with performance that must be heard to be believed. One of the major shortcomings of CD playback has always been the relatively low 44.1kHz sampling frequency. The sampling frequency is how many times the analogue sound wave is measured or 'sampled' creating a staircase like replica of the original waveform. This is what is stored on the CD disc.

Later these digitized waveforms are smoothed out by the circuitry of the CD player. But if the number of steps could be made much smaller – twice as many or even four times as many – the waveform would be much smoother to begin with and the processing in the CD player could be simplified and improved. This is exactly what we have done with the C 565BEE by adding a Sample Rate Conversion circuit that bumps the 44.1kHz sampling frequency up to 96kHz or even 192kHz.

This higher sampling rate allowed NAD's engineers to take full advantage of the latest state-of-the-art DAC (digital to analogue converter) from Wolfson Microelectronics.

continued>



> DETAILS

Offering 24 bit resolution and up to 192kHz sampling rate, this DAC is a perfect complement to our Sample Rate Converter.

Although the Signal to Noise Ratio of this DAC is specified at a very high 128dB, we use two of them in a Dual Differential configuration for even better performance.

But just having premium parts is no guarantee of performance. We use ultra clean multiple regulated power supplies to feed the different types of circuits and mechanical parts that make up the C 565BEE. Careful circuit layouts, short signal paths, and rigorous attention to every detail insure that performance is maximized. Because the Sample Rate Converter pushes the sampling frequency very high, we can use a better sounding digital filter with less group delay. This filter also has a user selectable roll off slope to allow fine tuning by ear.

The analogue circuitry too must be at the cutting edge of performance. NAD uses the best quality FET audio OpAmps selected for their very wide bandwidth and low noise. Able to deliver ample current and with a very low source impedance, the C 565BEE is less sensitive to cable capacitance.

Features

The C 565BEE's superb digital and analogue performance can also be applied to other types of media besides CD. The front panel USB port allows MP3 music files (up to 320kbs/VBR) stored on a USB Memory Key or USB Hard Disc Drive (FAT 16/32 format) to be played back using the superior performance capability of the C 565BEE. The rear panel optical digital input caters to a wide variety of digital playback devices such as digital tape or mini-disc. Source inputs are easily selectable from either the front panel or via the supplied IR remote.

CD Text and Metadata from MP3 files is shown on the front panel display, along with time, track, and other program data simultaneously. Display icons indicate selected input, filter slope and sampling rate.

We have also designed the front panel controls to make it faster and easier to browse large collections of music files by adding a rotary knob that controls both

“skip” and “play/pause” functions. Twist the knob clockwise and you skip forward; counterclockwise skips back. Push the knob to initiate play. It is so intuitive to operate that you'll soon wonder how you lived without it.

Green Features

NAD has responded quickly and responsibly to the new awareness of environmental damage caused by human activity. The C 565BEE is manufactured without the heavy metals that have been identified as harmful to the environment and manufacturing processes meet the latest stringent international standards. Standby power consumption is best in class at <1 watt.

Value

Purchasing the C 565BEE, with its expanded capabilities, is much more than just buying a new CD Player. Not only does it make an instant improvement in the sound of every CD in your collection, but also it allows the introduction of new media into your stereo system via the USB input.

The convenience of database storage with audiophile sound quality is an addictive combination! Quickly browsing and selecting from the expanded possibilities of new media makes listening to music on your stereo more enjoyable than ever before.

We encourage you to compare the performance of the C 565BEE to CD players costing twice as much and more. The expertise and experience of NAD's design engineers makes the difference. Innovative design and faultless execution, combined with NAD's philosophy of frill-free simplicity, result in superb performance and value.

> SPECIFICATIONS

General Parameters

Output level	
Analogue	2.2 ± 0.1V
Optical	-22.5 ± 3.5dBm
Coaxial	650 ± 150mV
Frequency response	± 0.3dB (ref. 0dB 20Hz-1kHz) ± 0.5dB (ref. 0dB 1kHz-20kHz)
Total harmonic distortion	<0.01% (ref. 1kHz)
Signal/Noise ratio	118dB (A-weighted, ref. 1kHz)
Channel balance	± 0.5dB (ref. 0dB 1kHz)
Dynamic range	>95dB
Channel separation	>90dB
De-emphasis	-3.73 to -5.33dB (ref.0dB 5kHz) -8.04 to -10.04dB (ref.0dB 16kHz)

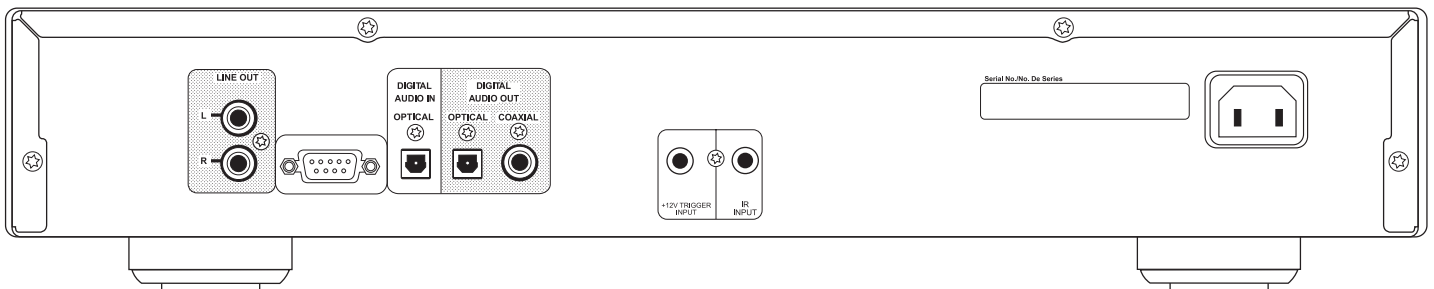
Linearity (ref. 0dB 1kHz)	± 0.01dB (at -3dB) ± 0.02dB (at -6dB) ± 0.05dB (at -20dB) ± 0.15dB (at -60dB)
---------------------------	--

Physical Specifications

Dimensions (W x H x D)	Net	435 x 70 x 285mm 17 1/8" x 2 3/4" x 11 1/4"
	Gross	435 x 86 x 293mm 17 1/8" x 3 3/8" x 11 1/2"
	Net weight	11.46 lbs (5.2 kg)
	Shipping weight	14.5 lbs (6.6 kg)

* Gross dimensions include feet, extended buttons and rear panel terminals.
Note: Installers should allow a minimum clearance of 2- 4 inches for wire/cable management.

> REAR LINE DRAWING



NAD Electronics International reserves the right to change specifications or features without notice. NAD is a registered trademark of NAD Electronics International. All rights reserved. No part of this publication may be reproduced, stored, or transmitted in any form whatsoever without the written permission of NAD Electronics International. © 02/09 NAD Electronics International.

www.NADelectronics.com