

# white bream

## A511 phono preamplifier



preliminary  
product  
specification

Tube sound is very popular and what medium could be more appropriate for tube processing than the classic vinyl record?

This tube preamplifier takes care of the necessary RIAA correction, without which a record sounds very flat with too much high and hardly any low signals.

A top-mount technique is applied on the design. This clearly reveals the aesthetic warmth of the tubes, which is especially true during operation.

In order to preserve the best possible sound quality, modern regulated linear power supplies power the tubes, while the line transformer is a toroid type, which significantly reduces hum.

The amplifier is only suitable for moving magnet elements, as the moving coil types require much more gain.

The amplifier uses three double-triode tubes for the two channels. The outer tubes are the famous E83CCs. These perform the actual RIAA equalization and the buffering of the output signal. Each of these tubes serves one channel with the two triodes used in push-pull configuration.

Because the signals from the moving magnet element do not have large amplitude, these signals must be amplified to a more appropriate level. The tube in the middle does this. This tube is an ECC808, which is actually an improved low-noise version of the ECC83. One half of this tube is used for each channel. This can be done because the ECC808 has improved channel separation and the phono signals are not especially demanding on that subject.

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The audio part of the amplifier is soldered with a silver/tin alloy, which is apart from very audiophile also environment friendly. Also the rest of the amplifier is soldered with lead free solder, this time a cheaper tin/copper alloy. This meets the draft of the upcoming Waste Electrical and Electronic Equipment directive of the European Community.

EMC/CE statement: The A511 phono preamplifier is believed to be fully compliant to the CE immunity requirements as the active parts (the tubes) are among the most impulse and transient resistant parts in electronics. Also the audio signal is protected against external influences to reduce disturbances, which also reduces the amount of signal that can escape to the outside by other means than the line outputs, making it very plausible that the amplifier also meets the emission guidelines. The amplifier is not actually tested against these guidelines.

## Specifications:

Input sensitivity: 10 mVrms  
Output level: 1 Vrms  
Gain at 1 kHz: 40 dB  
Min. gain (20kHz): 20 dB  
Max. gain (50Hz): 60 dB  
Equalization curve: RIAA xxx \*)  
Source element: Moving Magnet  
Anode voltage: 300 V

## Bode and phase diagram:

Filter capacitors: Polystyrene  
Coupling capacitors: Polypropylene

## THD and noise:

Power: 230 V 50 Hz  
Active: 30 W  
Standby: 350 mW  
Dimensions: (w-h-d) 12 x 8 x 18 cm  
Power cord: 1.8 m

Not only you can buy manually assembled units off-factory but, as the diagrams and drawings are public, you can build the amplifier yourself also. For this purpose both bare printed circuit boards and complete component kits are available.

Retail prices: (preliminary)

<b>A511</b>	€	<b>330.-</b>
<b>A511 kit</b>	€	<b>280.-</b>
<b>A511 pcb</b>	€	<b>30.-</b>

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