

# WES Components - S200W Subwoofer Amplifier

## Sub woofer Amplifier 200W/ 4

## S200W

### Features:

- Large Heavy Duty Power Transformer
- High current 20,000 uf power supply for 4 loads
- Pure copper speaker cable 4.25 mm 2 x O.F.C(284 strand per conductor) direct soldered to PCB ,No Hi loss in line speaker connectors
- Heavy duty Hi purity copper 3 core Power Lead
- 4 X Hi Power Discrete high current drivers and output devices
- Large Heat-sink
- Output short circuit protection circuit
- System thermal overload protection device
- Gain control Woofer -Volume level
- Freq control Variable low pass
- Phase Reverse/Normal switch 180 degs
- Auto on/off control
- Gold plated RCA low level in/out sockets
- Speaker high level in/ out terminals
- 24db/octave 17Hz filter to reduce excessive cone excursion
- Thermal over load protection
- Heavy duty power cable Multi colour LED power indicator and protection mode indicator
- Master power switch auto /on/off
- Power on in (auto) standby mode triggers with signal input
- AC 240V
- Soft Clipping circuit
- Video/Audio filter switch

### Specifications:

200 w @ 4 ohm  
 162 W @ 8 ohm  
 THD: 0.8% @ onset of clipping full power

S/N ratio @ rated Power  
 82dB

Input sensitivity - Video  
 ref 100Hz@1W @ 8Ohm

@ low level 214mV rms  
 @ high level 1.71V rms

Input impedance:

Low Level :49K

High Level :2.2K

Variable low pass freq control

Phase switch 180deg

Frequency range

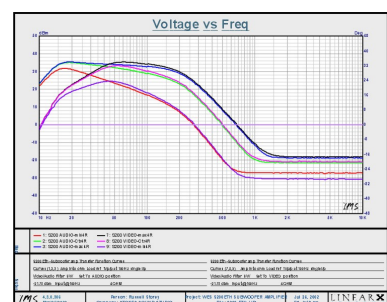
Audio mode 10-250 Hz

Video Mode18-180Hz

Sub Harmonic Filter

24db/octave 17HzLPF

Graph showing Gain and Freq Control settings



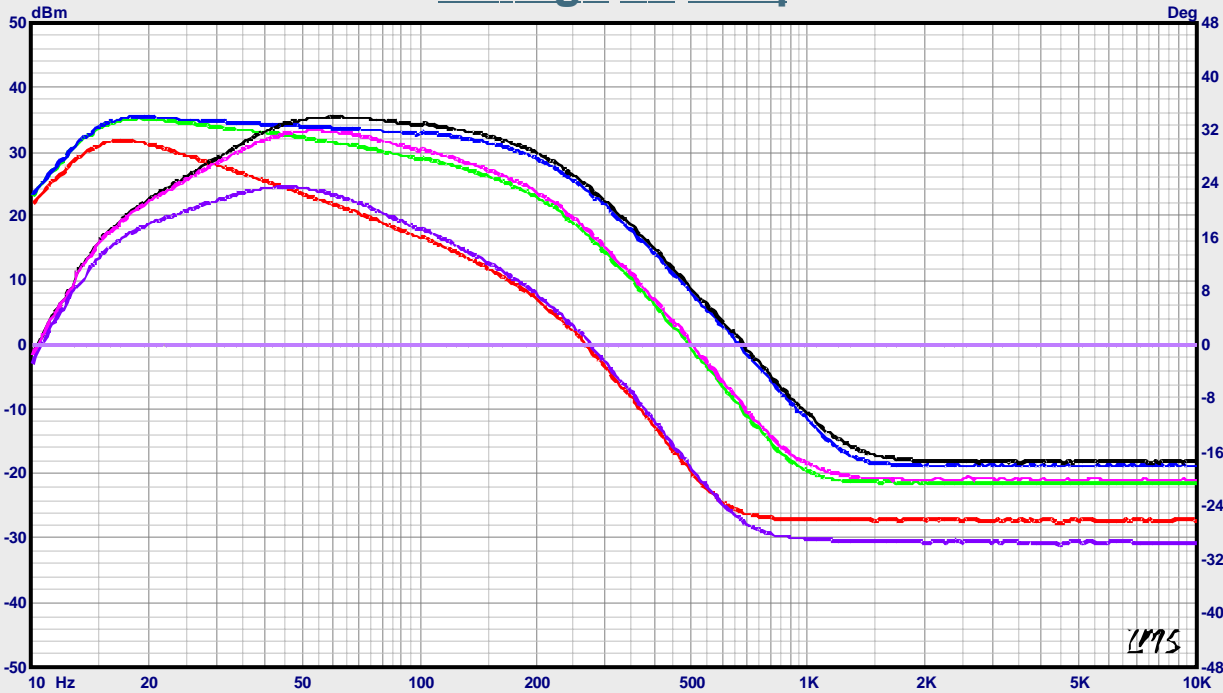
## OPERATION Instruction notes

- USE Only one set of inputs at a time either LOW or High LEVEL- not both
- LOW input: Bridge both L& R Low level inputs if you have a mono output from your DVD or Home Theatre Amplifier this will give a 6db volume Level boost.
- HIGH input : separate L&R speaker cable feeds from L&R front speakers to the High level inputs on Sub Amp for Home theatre or Music DVD # Double check the polarity of the speaker leads is correct before switch on .
- PWR / PRT : LED light normal mode **Green**, Protection mode LED changes to **RED**
- Use Phase switch REV /NORM to achieve the deepest bass in sync with the L&R Front Speakers
- Delayed Power on takes 5 to 20seconds this is the Speaker anti thump circuit protecting the speaker on initial switch on
- Subwoofer Level Frequency and phase controls are to achieve the best sound from your Subwoofer speaker in conjunction with the Subwoofer speaker room position .This will vary radically with different rooms and different program material music requiring different settings of the Gain/Freq/Phase Controls DVD movies require different settings to DVD music or CD Music



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# Voltage vs Freq



- 1: S200 AUDIO-min4R      7: S200 VIDEO-max4R
- 2: S200 AUDIO-Ctr4R    8: S200 VIDEO-Ctr4R
- 3: S200 AUDIO-max4R    9: S200 VIDEO-min4R

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| S200 Eth - Subwoofer amp Transfer Function Curves<br>Curves (1,2,3) Amp into ohm Load ref 1Vp/p at 100Hz single i/p<br>Video/Audio Filter SW Set To AUDIO position<br>-21.75 dbm input @100Hz      4 OHM | S200 Eth - Subwoofer amp Transfer Function Curves<br>Curves (7,8,9) Amp into ohm Load ref 1Vp/p at 100Hz single i/p<br>Video/Audio Filter SW Set To VIDEO position<br>-21.75 dbm input @100Hz      4 OHM |
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Graph showing Gain V's Frequency with various Control settings  
**"Video /Audio" Switch I/O**

**S200W 4ohm load**