

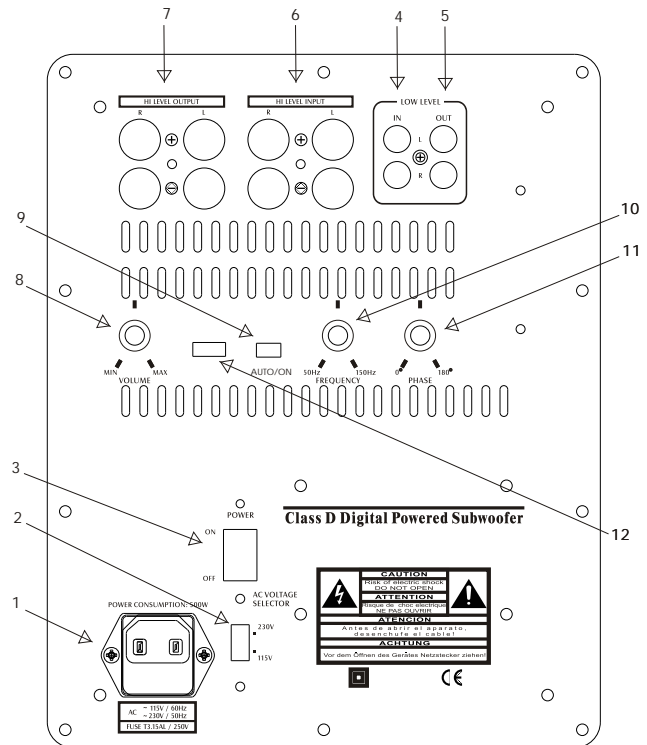
## Dt150 Subwoofer Module

### Features:

The Dt150 Active-Subwoofer module uses the latest Class D amplifier technology. The class D amplifier is extremely efficient resulting in a smaller heatsink than would normally be expected. This enables a compact design with a high output. The unit can be driven through either a High Level or a Low Level input. The module has a variable 3rd order Linkwitz-Riley bass filter and a variable phase control. The Low Level output has an active 2nd order treble filter. Bass compensation is handled by a combined frequency and amplitude adjustable treble filter. A switchable limiter ensures low distortion bass reproduction. In order to eliminate air leakage around the front panel the Dt150 is sealed to the rear with a plastic housing. Protection circuitry protects from both thermal and electrical overloading. The module uses high performance gold plated terminals, robust control elements and a solid aluminium front panel.

### Technical details:

- Class D technology
- Output RMS: 150W/4Ohm
- Output Peak: 300W/4Ohm
- Min. output impedance : 4Ohm
- Frequency range: 20Hz -150Hz
- Variable bass filter: 50Hz - 150Hz
- Variable phase control: 0° - 180°
- Switchable bass compensation: +3dB or +6dB at 20, 25, 30, 35, 40, 45Hz
- Switchable Limiter
- High-Level and Low-Level inputs and outputs via high quality gold plated connectors
- Low- and High-Level outputs with treble filters
- Automatic switch on/off
- Integrated over voltage and DC protection to loudspeaker output
- Thermal protection to power amp.
- Sealed plastic casing to rear of module.
- Dimensions of rear casing (H x W x D): 235mm x 180mm x 102,5mm
- Overall dimensions (H x W x D): 270mm x 215mm x 105 mm



### Connections and controls:

1. Euro socket with integrated fuse (230VAC / 3,15A fuse)
2. Supply voltage switch 115VAC/230VAC
3. On/off switch.
4. LOW LEVEL INPUT: Input from pre-amp.
5. LOW LEVEL OUTPUT: Filtered output to power amp driving satellite speakers
6. HIGH LEVEL INPUT: High level input for direct connection from power amp. (Speaker sockets).
7. HIGH LEVEL OUTPUT: This output is a unfiltered signal from the „HIGH LEVEL INPUT“ for direct connection to satellite loudspeakers.
8. VOLUME: controls the Subwoofer volume.
9. Auto On/Off: Switches the Auto on/off mode, on(Auto) or off ( permanent on)
10. FREQUENCY: Controls the frequency of the subwoofers bass filter.
11. PHASE: Controls the subwoofer signals phase between 0° and 180°.
12. Highpass equalizer (switch1-6), switchable limiter for 4 or 8 Ohm speakers (switch 7-8)

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## A M P L I F I E R S

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AUDIO TECHNOLOGY

### Bass correction:

The bass correction feature enables fine tuning of the loudspeaker unit. The settings are reachable from the front panel. A protection seal must be removed first. By referring to the following tables, the amplification (+3/+6dB) and the filter frequency (20, 25, 30, 35, 40, 45 Hz) can be set. In the event that bass correction is not required there are three settings available with differing bass cut-off frequencies. The switches 7-8 are for limiting purpose and suitable for 4 or 8 Ohm speakers.

#### Bass correction (Equalised) +3dB

Switch No. / Frequency	1	2	3	4	5	6
20 Hz	0	0	1	1	0	0
25Hz	0	1	0	0	1	0
30Hz	0	1	0	1	1	0
35Hz	0	1	1	0	0	1
40Hz	1	0	0	1	0	1
45Hz	1	0	0	0	1	1

0=OFF 1=ON

#### Bass correction (Equalised) +6dB

Switch No. / Frequency	1	2	3	4	5	6
20 Hz	0	1	0	0	0	0
25Hz	0	1	1	1	0	0
30Hz	1	0	0	0	1	0
35Hz	1	0	1	1	1	0
40Hz	1	1	0	1	1	0
45Hz	1	1	1	0	0	1

0=OFF 1=ON

#### No correction (Flat Response)

Switch No. / Frequency	1	2	3	4	5	6
18Hz	0	0	0	0	0	1
20Hz	0	0	0	0	1	1
23Hz	0	0	0	1	1	1

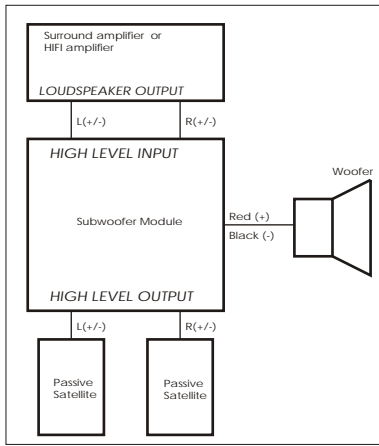
0=OFF 1=ON

#### Limiter Adjustment

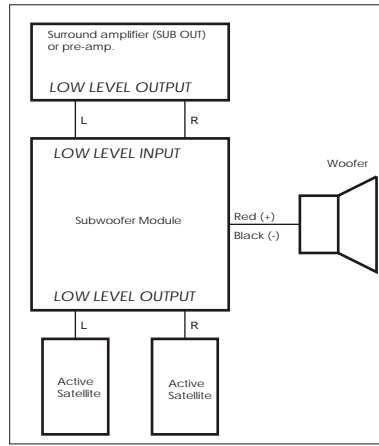
Switch No. / Loudspk. Imp.	7	8
4 Ohm	0	1
8 Ohm	1	0

0=OFF 1=ON

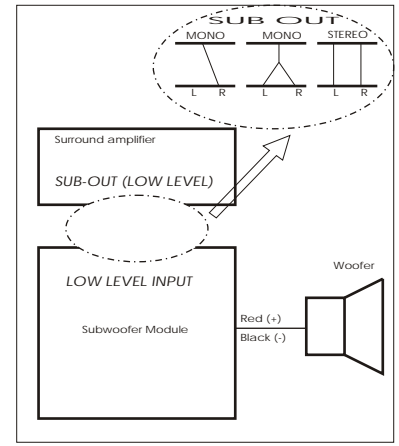
### Connection schemes.:



Connection plan HIGH LEVEL

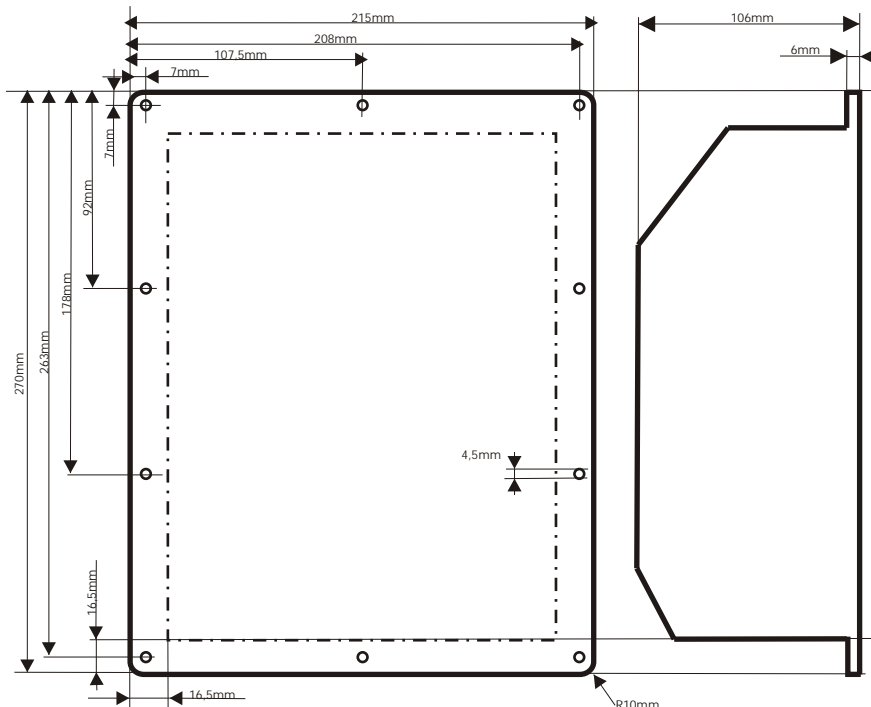


Connection plan LOW LEVEL



Connection plan SUB-OUT (LOW LEVEL)

### Dimensions:



### Note:

Whilst every attempt is made to ensure the accuracy of these technical details, mistakes cannot be completely ruled out. RCMakustik accepts no liability for any loss or claim resulting from the use of this information.