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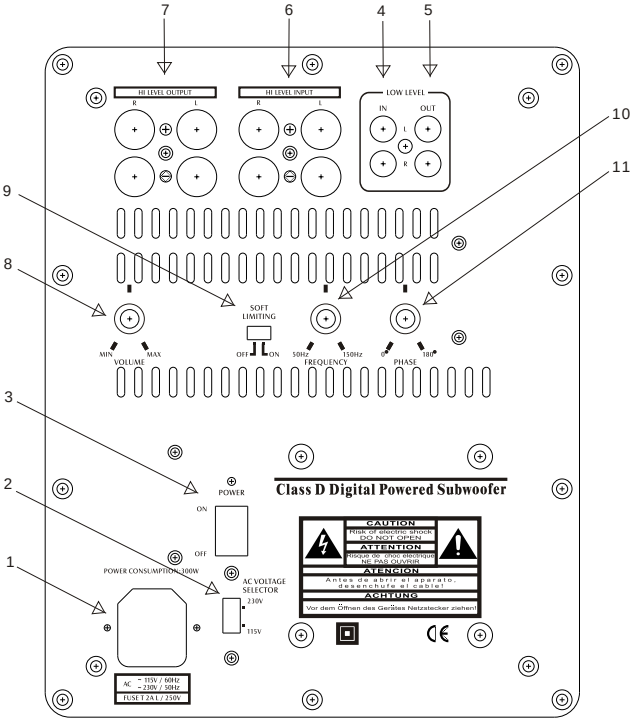
AUDIOTECHNOLOGY

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 High Level output has a passive 1st order treble filter. The Low Level output has an active 2nd order treble filter. Bass equalisation is achieved 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 Dt300 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 equalisation: +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 / 2A antisurge)
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 filtered signal from the „HIGH LEVEL INPUT" for direct connection to satellite loudspeakers.
8. VOLUME: controls the Subwoofer volume.
9. SOFT LIMITING: Limits the output signal to reduce the possibility of damaging the speakers due to too large an input signal.
10. FREQUENCY: Controls the frequency of the subwoofer's bass filter.
11. PHASE: Controls the subwoofer signals phase between 0° and 180°.

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Bass correction:

The bass equalisation feature enables fine tuning of the loudspeaker unit. As these settings do not need to be changed during use, the DIP switches are located on a circuit board inside the module. 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 equalisation is not required, three settings are available with differing bass cut-off frequencies.

Bass equalisation +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 equalisation +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

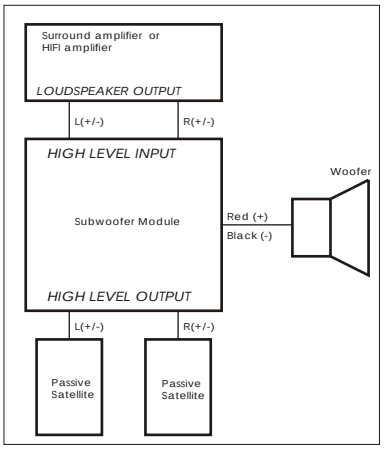
0=OFF 1=ON

No equalisation (Flat Response)

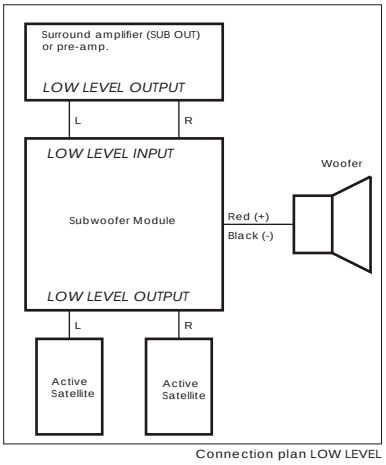
Switch No. / Frequency	1	2	3	4	5	6
18Hz	0	0	0	0	0	1
20Hz	0	0	0	0	1	1
23Hz	0	0	0	1	1	1

0=OFF 1=ON

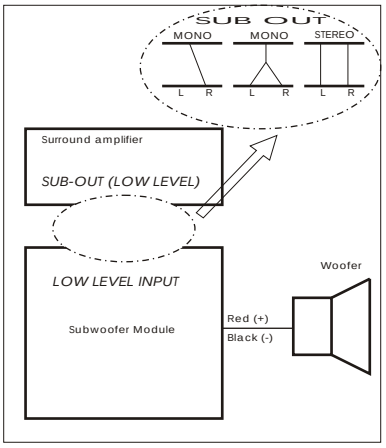
Connection schemes:



Connection plan HIGH LEVEL

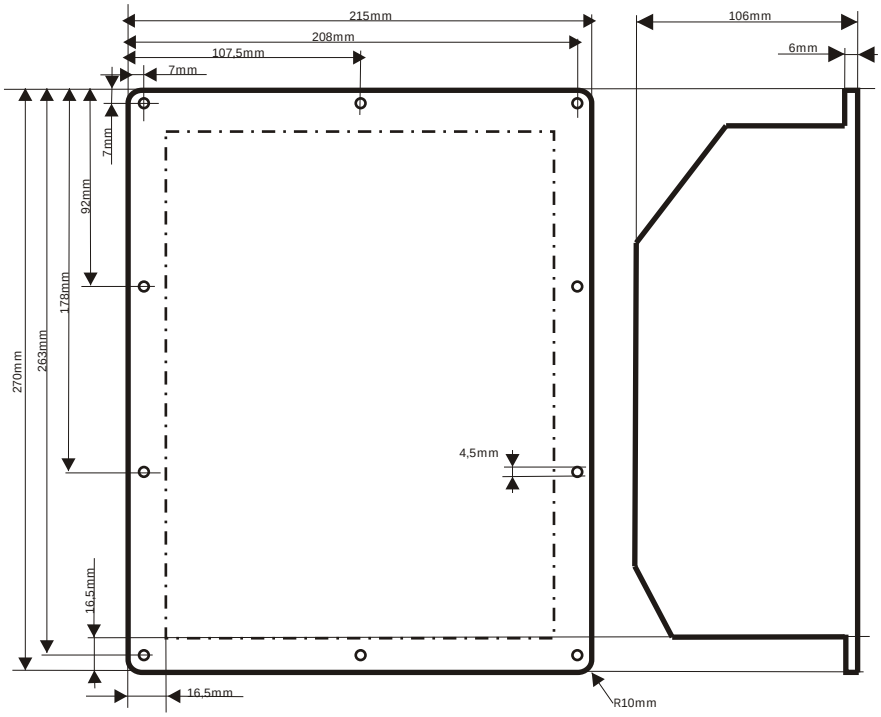


Connection plan LOW LEVEL



Connection plan SUB-OUT (LOW LEVEL)

Dimensions:



Note:

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