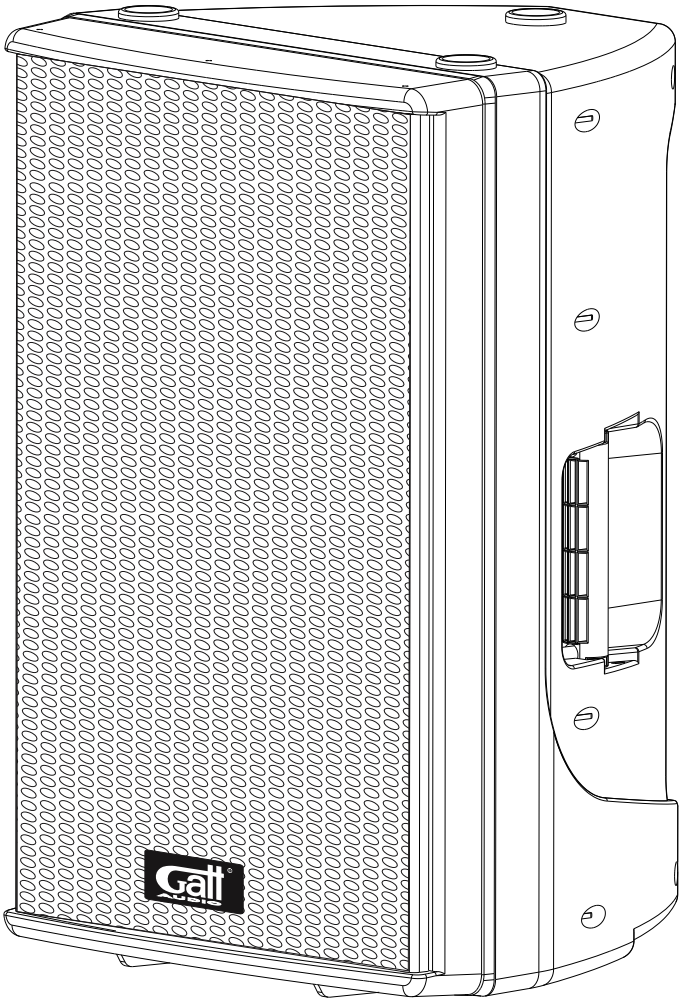
USER'S MANUAL



- GAN-12
- GAN-12A
- GAN-12A-MP

IMPORTANT SAFETY INSTRUCTIONS

Please read before using this product, please keep this manual for future reference.

To prevent the risk of fire and shock hazard, do not expose this product to moisture or rain, do not open case; no user service-able parts inside. Refer servicing to qualified service personnel only.

1. Follow all warnings and instructions marked on this product.
2. Do not use this product near water. Don't spill liquids on it.
3. Make sure the surface you place this product on is flat and stabile. The product may fall resulting in serious damage to you, to others, to the product or other items.
4. Any slots or openings in the product's chassis or housing should not be covered. These openings might be used for ventilation. Make sure that free air can flow in and around these openings.
5. Do not place this product near a source of heat.
6. Only use the supplied or compatible power adapter or power cord. Make sure that this product is compatible with the type of power available.
7. Before connecting the adaptor or power cable thoroughly check it for any damages, especially the connectors. When any damage is noticed please replace the adaptor or cable immediately.
8. Make sure that any cables connected to the product are clearly marked to prevent persons to trip over them.
9. When the product will not be used for a longer time please disconnect all cables.
10. Clean with dry cloth only.

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WELCOME!

Congratulations on your purchase of a highly sophisticated sound reinforcement solution.

We at Gatt Audio spent many hours in designing and matching all different components. You couldn't have made us more proud than by buying this system.

Please take a moment to read this manual and take a close look at the product. This will ensure that you will have no troubles setting it up and controlling it while gigging.

On behalf of everybody at Gatt Audio we thank you for your trust!

Gatt Audio

John Jackson

1. GAN-12A-MP CONTROL FEATURES

GAN-12A is a bi-amped electronically compensated speaker system. The LF part has 300W, the HF part has 100W, separated by a two-way crossover. GAN-12A-MP has a built-in MP3 Music Player Module with karaoke function.

1 BASS
Use this knob to adjust the low frequencies of the system.

2 INPUT VOLUME
Use this knob to adjust the volume of the source connected to the input connector 5.

3 CLIP INDICATOR
When the preamp input is fed with a too loud signal, this indicator will light. Please lower the volume to have optimum sound quality and not damage amplifier or speaker components.

4 SIGNAL INDICATOR
When signal is applied to the preamp this indicator will light.

5 INPUT
Connect your source here. This XLR+1/4" input connector can handle both microphone level and line level inputs. (pin1 ground, pin 2 +, pin 3 -).

6 VOLTAGE SELECTOR
Make sure you select the correct local mains voltage; 110 volts or 220 volts.

7 POWER SWITCH
Use this switch to turn the system on and off.

8 MP3 MUSIC PLAYER MODULE
Please refer to the section on next page for operation instructions.

9 TREBLE
Use this knob to adjust the high frequencies of the system.

10 MP3 VOLUME
Use this knob to adjust the volume of the MP3 music player module (marked 8).

11 MIX/ OUTPUT
Use this output to patch out line level signal from the preamp.

12 STEREO/MONO SWITCH
This switch determines what type of signal is fed to connector 11.

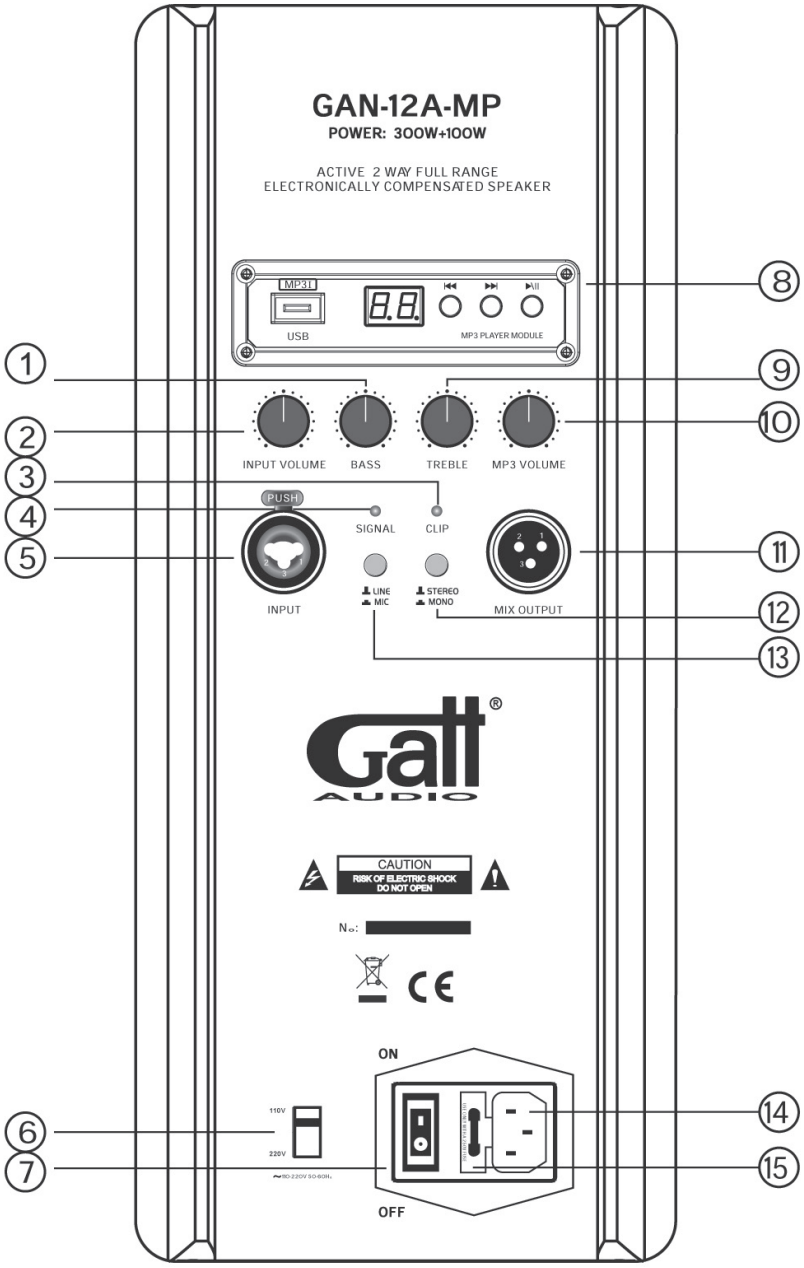
stereo mode: the left channel of the MP3 music player module will be amplified by the internal amplifiers and the right channel will be fed to connector 11. You can patch this signal to an optional GAN-12A system for true stereo sound.

mono mode: the signal fed to connector 11 will be exactly the same as the signal fed to the internal amplifiers.

13 LINE/ MICROPHONE SWITCH
Use this switch to set the type of signal fed to connector 5. Typically, set this switch to 'microphone' when a microphone is connected. When connecting a mixing console, CD player, keyboard etc. please set this switch to 'line'. Wrong selection can damage this system!

14 POWER SUPPLY INPUT
Use the factory-included (or compatible) power cable to connect this socket to a mains outlet. Please make sure you have selected the correct setting of switch 6!

15 PROTECTION FUSE
This fuse blows in the event of a malfunction. Replace it with another fuse of the same type and rating only. For your convenience, a spare fuse is included in the fuse holder.



2. GAN-12A CONTROL FEATURES

GAN-12A is a bi-amped electronically compensated speaker system. The LF part has 300W, the HF part has 100W, separated by a two-way crossover.

1 INPUT VOLUME
Use this knob to adjust the volume of the source connected to the input connector.

2 CLIP INDICATOR
When the preamp input is fed with a too loud signal, this indicator will light. Please lower the volume to have optimum sound quality and not damage amplifier or speaker components.

3 MIC SIGNAL INDICATOR
When microphone signal is selected (switch 5) and applied this indicator will light.

4 LINE SIGNAL INDICATOR
When line signal is selected (switch 5) and applied this indicator will light.

5 LINE/ MICROPHONE SWITCH
Use this switch to set the type of signal fed to connector 11. Typically, set this switch to 'microphone' when a microphone is connected. When connecting a mixing console, CD player, keyboard etc. please set this switch to 'line'. Wrong selection can damage this system!

6 VOLTAGE SELECTOR
Make sure you select the correct local mains voltage; 110 volts or 220 volts.

7 POWER SWITCH
Use this switch to turn the system on and off.

8 BASS
Use this knob to adjust the low frequencies of the system.

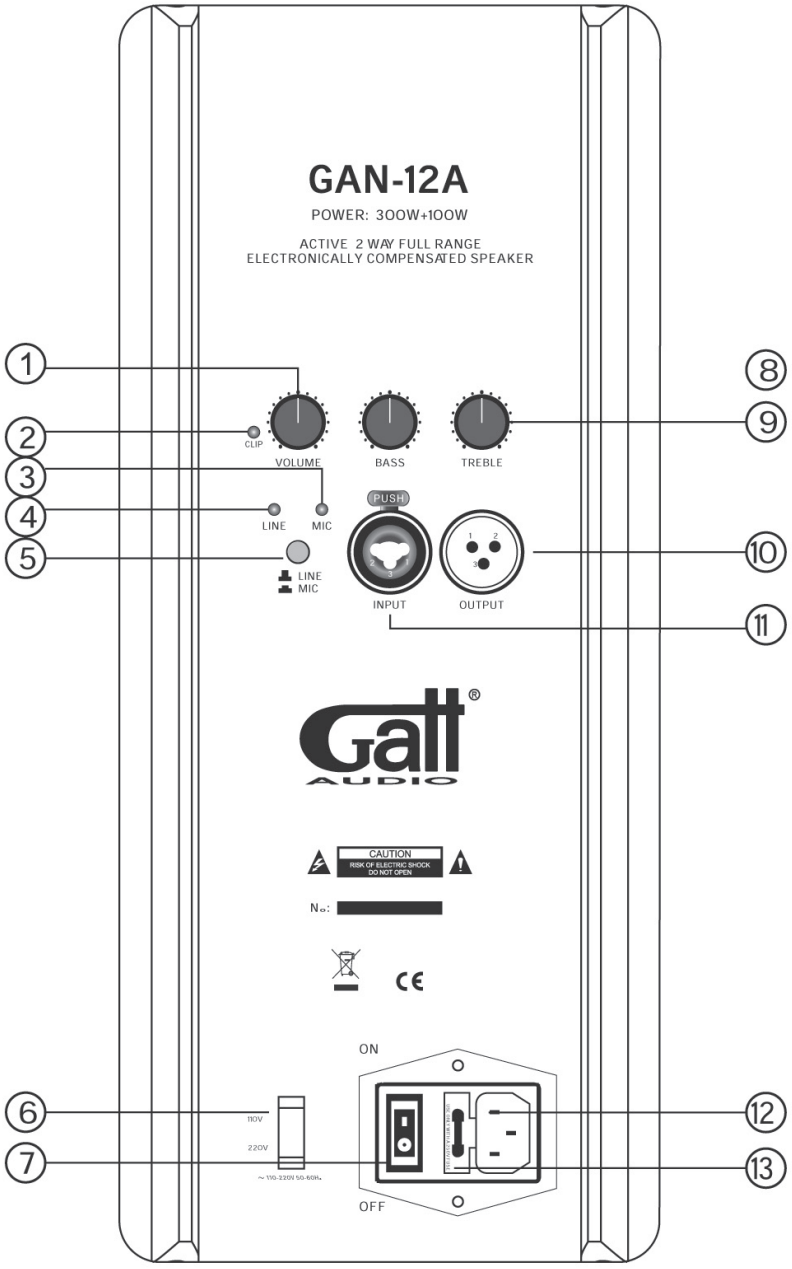
9 TREBLE
Use this knob to adjust the high frequencies of the system.

10 MIX/ OUTPUT
Use this output to patch out line level signal from the preamp.

11 INPUT
Connect your source here. This XLR+1/4" input connector can handle both microphone level and line level inputs. (pin1 ground, pin 2 +, pin 3 -).

12 POWER SUPPLY INPUT
Use the factory-included (or compatible) power cable to connect this socket to a mains outlet. Please make sure you have selected the correct setting of switch 6!

13 PROTECTION FUSE
This fuse blows in the event of a malfunction. Replace it with another fuse of the same type and rating only. For your convenience, a spare fuse is included in the fuse holder.



3. GAN-12 FEATURES

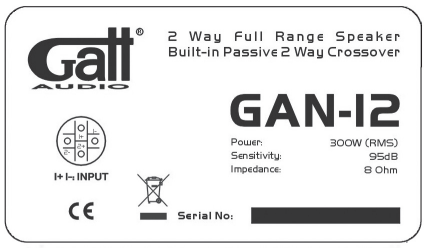
GAN-12 is a passive speaker system with a built-in two-way crossover.

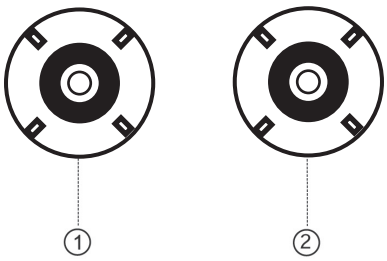
1 SIGNAL INPUT

Feed your speaker signal here. (pin1+ hot signal, pin 1- ground).

2 SIGNAL PARALLEL OUT

The signal fed to the system on connector 1 can be patched through to another passive speaker here. Please consult your amplifier manual for minimum load (mostly 4Ω).





4. MP3 MUSIC PLAYER MODULE

The built-in MP3 music player module (only on model GAN-12A-MP) is compatible with USB 1.1 standard memory flash drives. It cannot be wire connected to other devices. All MP3 files must be placed in the root of the memory drive; the module will not recognise files placed in subdirectories.

1 USB MEMORY STICK CONNECTOR

Connect your drive here. After 5 seconds the module will start to play the first track.

2 15 SEGMENT DISPLAY

This display will inform you on the currently played track number.

3 PREVIOUS TRACK

This button will select the previous track.

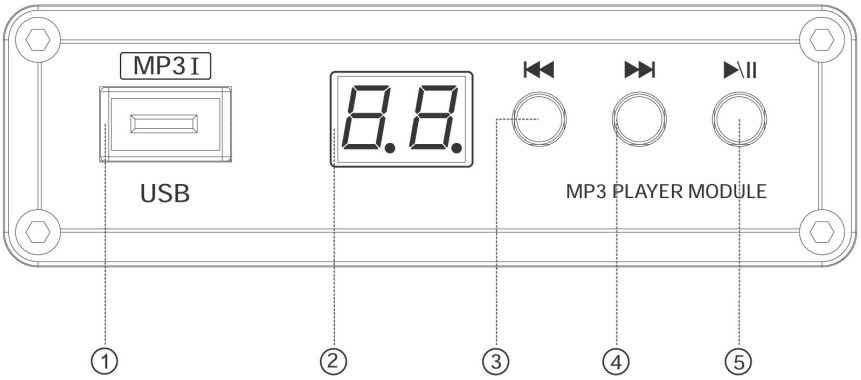
4 NEXT TRACK

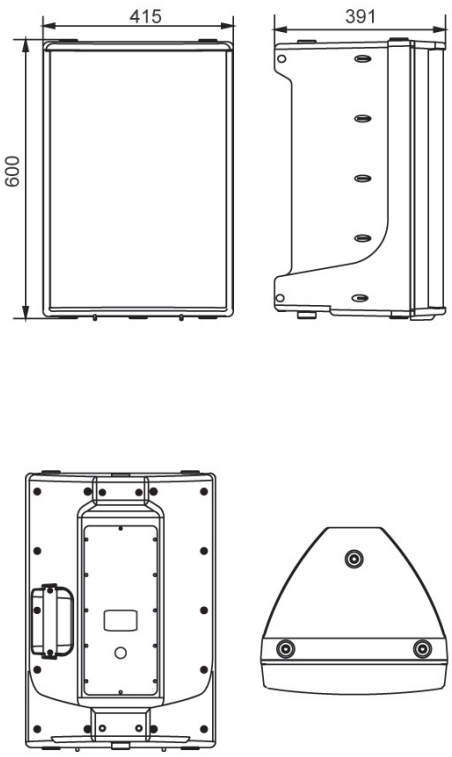
This button will select the next track.

5 PLAY / PAUSE

This button will start the currently selected track. When pressed during play it will pause the currently played track until pressed again. During pause mode button 3 and 4 can be used to select another track.

When pressed for 3 seconds the player will switch to LL mode (left channel only), RR mode (right channel only) and LR mode (left and right channel). This option comes in handy when using karaoke tracks. Default mode selected is LR.



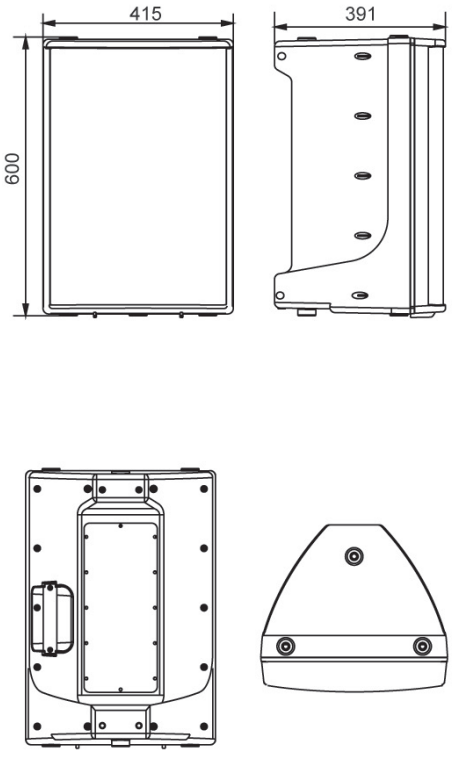


GAN-12

5. TECHNICAL DATA

	GAN-12	GAN-12A	GAN-12A-MP
Cabinet housing	injection moulded polypropylene + conventional materials		
	passive two-way speaker, 300W RMS @ 8Ω	bi-amped speaker system LF 300W + HF 100W	
Bass/Mid F driver	1x12”		
HF driver	2” compression driver, 90°Hx40°V dispersion horn		
Frequency response +/- 3dB	60Hz – 20KHz,	50Hz – 20KHz,	
Frequency response +/- 10dB	55Hz – 20KHz	40Hz – 20KHz	
Axial sensitivity @ 1W/1m	95dB		
Max. SPL @ 1m	115dB	118dB	
LF level adjust	-	+/- 10dB @ 100Hz	
HF level adjust	-	+/- 10dB @ 10KHz	
Input impedance	-	balanced 20KΩ, unbalanced 10KΩ	
Dimensions	415 x 391 x 600mm		
Weight	18kg	23kg	24kg
Power	-	AC110/220V, 50/60Hz, power consumption 450W	
Fuse type	-	110V: T5A / slow220V: T3A slow	

6. OPTIONAL ACCESSORIES



GAN-12A / GAN-12A-MP

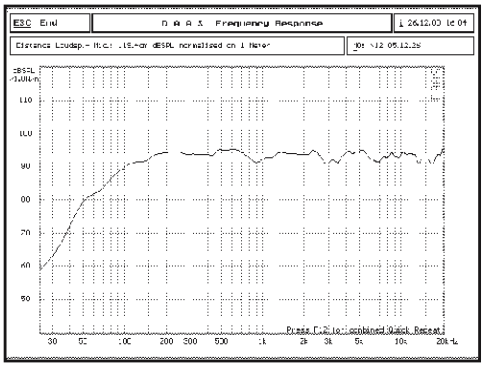
FSS-2 metal speaker stand for floor monitor position

SSWM-1 wall mount rotatable

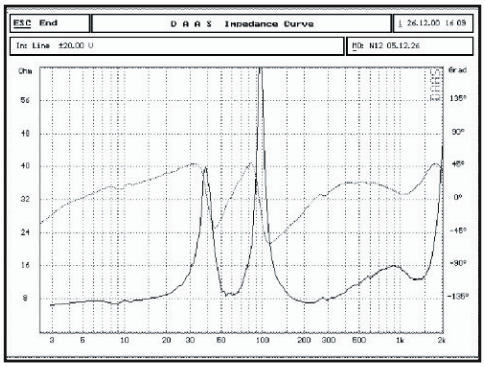
SET-M8 set of 4 flying bolts M8

COV-GAN-12 dust cover

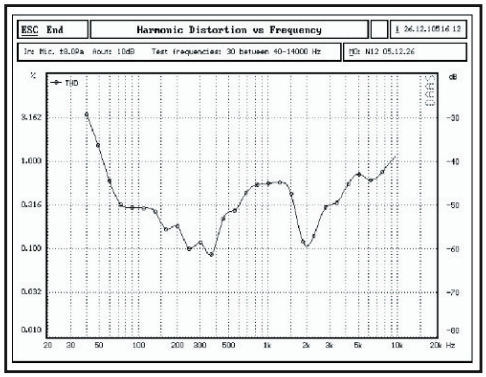
GAN-12 ATTACHED DRAWING



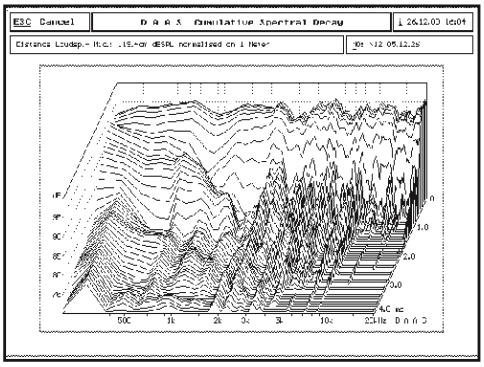
Frequency response, SPL/2.83v



Impedance curve

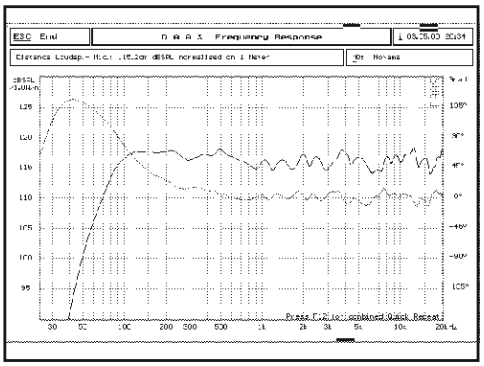


Harmonic distortion 106dB/2.5m, nominal impedance



Waterfall spectrum analysis

GAN-12A / GAN-12A-MP ATTACHED DRAWING



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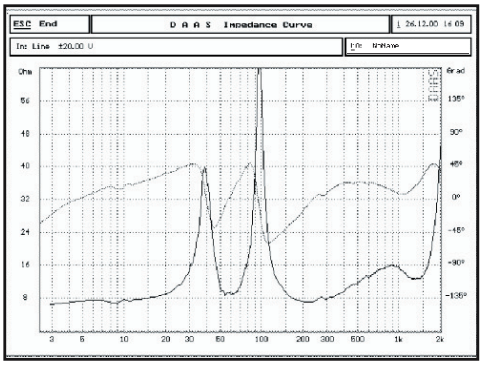

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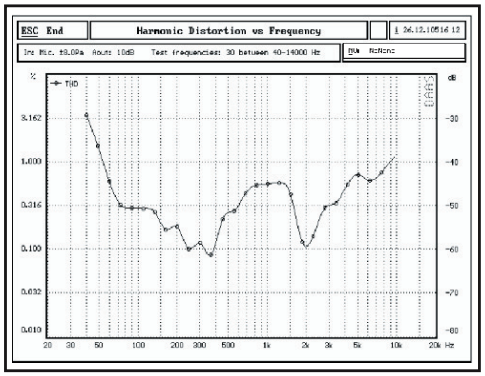
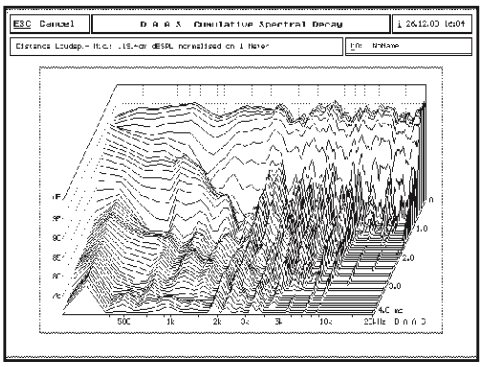


Harmonic distortion 106dB/2.5m, nominal impedance



Waterfall spectrum analysis

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