

NFM-6C TIME ALIGN® NEARFIELD MONITOR™

The NFM-6C TIME ALIGN® NEARFIELD MONITOR™ is designed to allow audio engineers hear things that they have been missing with other monitors. It's clarity and resolution of detail is unsurpassed. Despite its small size, it is capable of very high acoustical output. This make the NFM-6C ideal for use where space is at a premium and larger systems can't be used. The NFM-6C uses a single high performance C17/120 coaxial driver that features a 165 mm bass driver and a 25 mm soft dome high frequency driver.

The coaxial driver allows the NFM-6C to be used either vertically or horizontally. The off-axis response is the same for either position.

The solid enclosure is constructed of 3/4" MDF with a 1" thick front panel. The beveled edges help reduce diffraction effects.

With its flat response from 60 Hz to 20 kHz, the NFM-6C can be used to monitor any of the channels of a multi-channel system such as Dolby Digital (AC-3, 5.1) or DTS. It can also be used with an ELF™ subwoofer system as a wide range monitor with a response from 20 Hz to 20 kHz.



NFM-6C TIME ALIGN® NEARFIELD MONITOR™

SPECIFICATIONS:

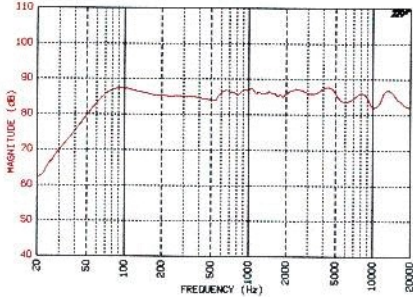
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|---------------------|-----------------------------------|---------------------|---|
| FREQUENCY RESPONSE: | +/- 3dB 60 Hz TO 20 kHz | SYSTEM TYPE: | TIME ALIGN® COAXIAL 2-WAY, CLOSED BOX |
| TIME OFFSET: | +/- 25 μSECS 300Hz TO 10 kHz | CROSSOVER: | TIME ALIGN® EQUALIZER-FILTER AT 3.5 kHz |
| SENSITIVITY: | 78 dB/VOLT/METER | DRIVERS: | 165 MM (5") AND 25 MM (1") |
| POWER REQUIRED: | 1 WATT FOR 87 dB SPL AT 1 METER | ENCLOSURE VOLUME: | 11.6 LITERS (0.41 FT ³) |
| POWER RECOMMENDED: | 100 WATTS | DIMENSIONS (HWD): | 356MM x 229MM x 229MM (14" x 9" x 9") |
| DISTORTION: | <3% THD OR IM AT 94 dB AT 1 METER | FINISHES AVAILABLE: | GRAY PRIMER |
| IMPEDANCE: | 8 OHMS NOMINAL, 7.0 OHMS MINIMUM | WEIGHT: | 6.8 KG (15 LB) |

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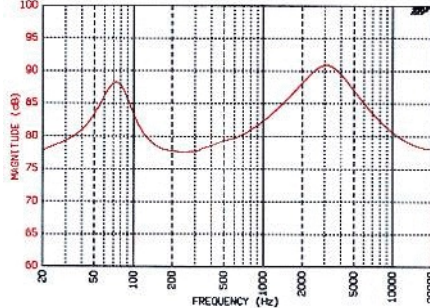


NFM-6C TIME ALIGN® NEARFIELD MONITOR™ TECHNICAL GRAPHS

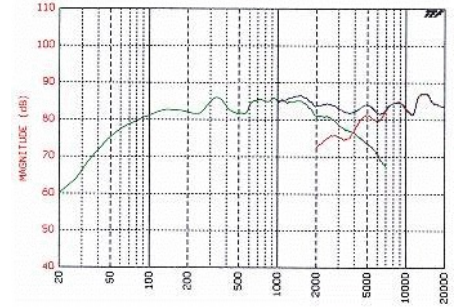
The graphs below prove the validity of the specifications. The amplitude vs. frequency response is +/- 3 dB from 60 Hz to 20 kHz. The minimum impedance is 7.5 Ohms. The crossover is 3.5 kHz. The group delay of the bass (green) and the treble (red) track each other closely and are within +/- 25 microseconds at the 3.5 kHz crossover frequency. The harmonic distortion at 100 dB SPL is less than 5.0% 2nd and 1.2% 3rd at 250 Hz and drops to below 0.4% above this frequency. The off axis response is shown for 0, 15, and 30 degrees. The symmetry of the coaxial driver allows the system to be used vertically or horizontally. The leading edges of the time vs. energy curves of the bass (blue) and treble (red) show that they are accurately aligned in time. The phase response of the system is within +/- 25 degrees from 500 Hz to 8 kHz. The system group delay is within +/- 400 microseconds from 800 Hz to 10 kHz. The Heyser Spiral is exceptional. The 20 kHz cosine pulse response is excellent. The square waves also show the excellent time and phase response of the system. No other 6.5" monitor can match the clarity and detail (or the test results) of the NFM-6C.



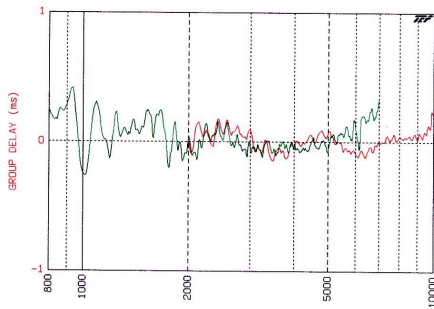
NFM-6C Amplitude vs. Frequency Response



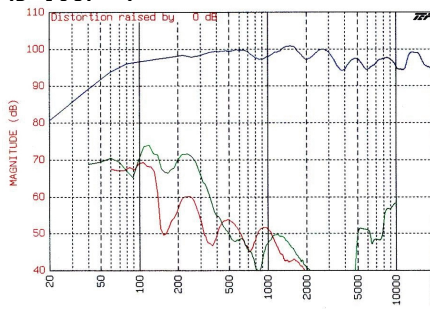
NFM-6C Impedance vs. Frequency (80)



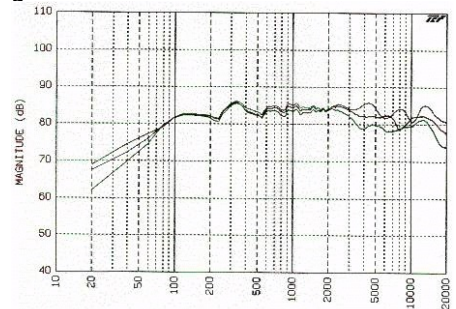
NFM-6C Crossover Amplitude Frequency



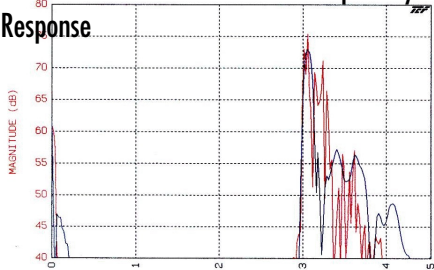
NFM-6C Crossover LF & HF Group Delay Response



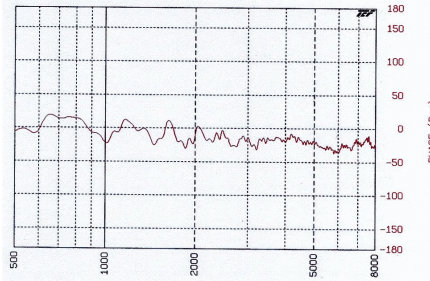
Distortion at 100 dB SPL (Grn:2nd; Red:3rd)



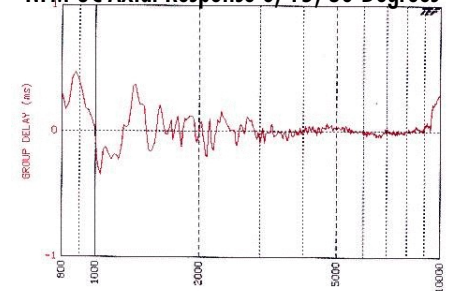
NFM-6C Axial Response 0, 15, 30 Degrees



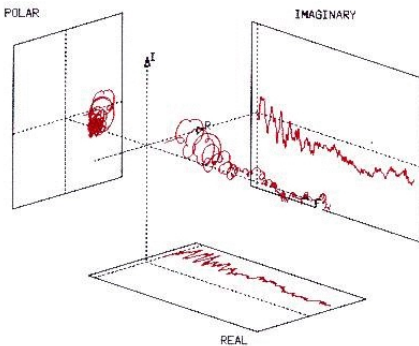
NFM-6C Bass & Treble Time vs. Energy Response



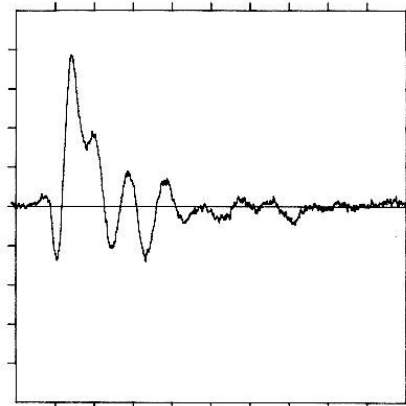
NFM-6C Phase vs. Frequency Response



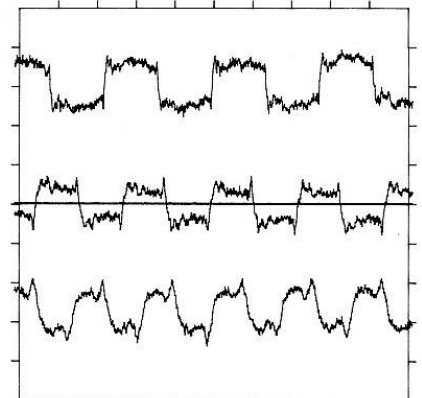
NFM-6C Group Delay



NFM-6C Heyser Spiral



NFM-6C Output for a 20 kHz Cosine Pulse



NFM-6C Square Waves at 300 Hz, 1 kHz, 3 kHz