

T H E S O N I C T R U T H



P R O D U C T

CX System

three-way active FIRTEC Reference Studio Monitor
coaxial

A 2-way mid-field and main Studio Reference Monitor for free standing use which can be expanded to a 3-way system with one or two 12" subs per side, or one or two 15" subs per side or with a combination of one 12" and one 15" sub per side.

The CX System uses FIRTEC® DSP technology (see page 10/11 of the KSdigital 2011 catalog) and has selectable controls which include "SWEET SPOT" optimization / room tuning. There is also onboard access to full digital equalization including High and Low Pass Shelving, Subwoofer Contour, Time Delay and Phase Reverse.

In addition the FIRTEC® program can be controlled from a WINDOWS computer. As an option, an active remote-control desk-unit is available.

High quality NEXTEL varnished MLF construction.

The top box C 120 can be upgraded with AES/EBU inputs and in this case the remote tools RC 100 or FIR Control can be added.

As the subwoofers run analog only they must be connected separately to run the top boxes direct digital.



Specifications Top C 120 12" + 2.8 coaxial Midfield selfpowered 2 way fullrange

Frequency response	25 - 22,000 Hz (+/-3dB)
Sound Pressure peak	140dB
Amplifiers analog with digital signal processing	100 watts + 200 watts
Drivers: Treble	2.8" Neodym
Low/Mid	12"
Input/Output	balanced XLR AES/EBU
Weight	30 kgs 66 lbs
Dimensions H W D	45 x 45 x 48 cm 18 1/3" x 18 1/3" x 19"

Specifications Top CB 120 12 " selfpowered subwoofer

Frequency response	25 - 22,000 Hz (+/-3dB)
Amplifier	400 watts
Driver	12"
Crossover	80Hz mono
Input/Output	balanced XLR analog highpass out for stellite
Weight	30 kgs 66 lbs
Dimensions H W D	45 x 45 x 48 cm 18 1/3" x 18 1/3" x 19"

Specifications Top CB 150 15" selfpowered subwoofer

Frequency response	25 - 22,000 Hz (+/-3dB)
Amplifier	400 watts
Driver	15"
Crossover	80Hz mono
Input/Output	balanced XLR analog highpass out for stellite
Weight	32 kgs 70 lbs
Dimensions H W D	45 x 45 x 48 cm 18 1/3" x 18 1/3" x 19"

Specifications Stand for CX system

154 cm / 61" high

Controls

full digital controls

Special Features

FIRTEC®, DSP

Options

Remote control, Infrared remote

TOP C 120
+ SUB CB 120
+ SUB CB 150



WITH OR WITHOUT FRONT GRILL



BUILDING BLOCKS

Choose between following options:

C 120 Top Boxes only

C 120 Top Box combined with 1 x CB 120 sub per side

C 120 Top Box combined with 2 x CB 120 subs per side

C 120 Top Box combined with 1 x CB 150 sub per side

C 120 Top Box combined with 2 x CB 150 subs per side

C 120 Top Box combined with 1 x CB 120 & 1 x CB 150 sub per side

FIRTEC®

FIR has been in use by KSdigital since 1995 in their pursuit of the world's finest loudspeakers.

It was KSdigital who manufactured the first digital studio monitor worldwide.

The concept of Finite Impulse Response (FIR) is well known in the field of acoustic loudspeaker measurement. However, KSdigital has broken the chains that have locked out the promise of superior results that can be achieved by the correct implementation of FIR in all aspects of sound reproduction, manufacturing and design.

KSdigital invented FIRTEC® DSP technology and it is the world's first fully successful and accepted utilization of a FIR (Finite Impulse Response) based digitally controlled measurement technology in an enclosure-driver-loudspeaker of traditional design.

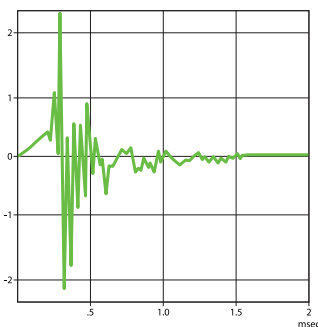
FIRTEC® FIR is "Finite Impulse Response" : a measurement process whose results are utilized by DSP programs.

FIRTEC® is : "Finite Impulse Response Technology", a Digital Signal Processor program that integrates the measurement results with the incoming audio signal to correct the loudspeaker's performance so that the transducers will duplicate the input signal exactly.

FIRTEC® is applied in the following models of the KSdigital Studio Reference Monitor models : C 8810, ADM 25, ADM 20, ADM 10 and the LINE MASTER. FIRTEC® is now applied as well to the PA line of KS AUDIO.

The following is a visual explanation of the KSdigital invented FIRTEC® DSP technology, using graphs, are made on KSdigital Studio Reference Monitors. (for more detailed explanation see our KSdigital catalog 2011 page 10/11)

Impulse response before Firtec®



The graphs on either side of this paragraph illustrate the motions of a speaker cone over a 2 ms (millisecond) duration, without and with the use of FIRTEC® digital signal processing.

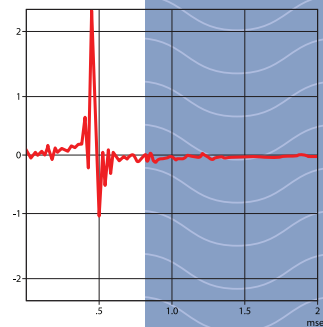
A 22 microsecond full-frequency (all frequencies at the same volume) positive only-going-pulse was used to excite the speaker in both graphs. If a speaker was able to reproduce a signal pulse exactly, the resulting graph would show a rectangular shaped line reaching up to the 2nd line position, and this graph would match a graph of the input signal.

The unprocessed graph shows the 'wiggly' lines stretching out over 1.5 milli- seconds. You can clearly see that the graph on the right has far fewer 'wiggly' lines than the graph on the left. The motions of the speaker cone on the left graph (not under digital control) is a normal result for any speaker cone that is not under perfect control (which is not possible) from its own magnet and cone-centering mechanisms (the surround and spider).

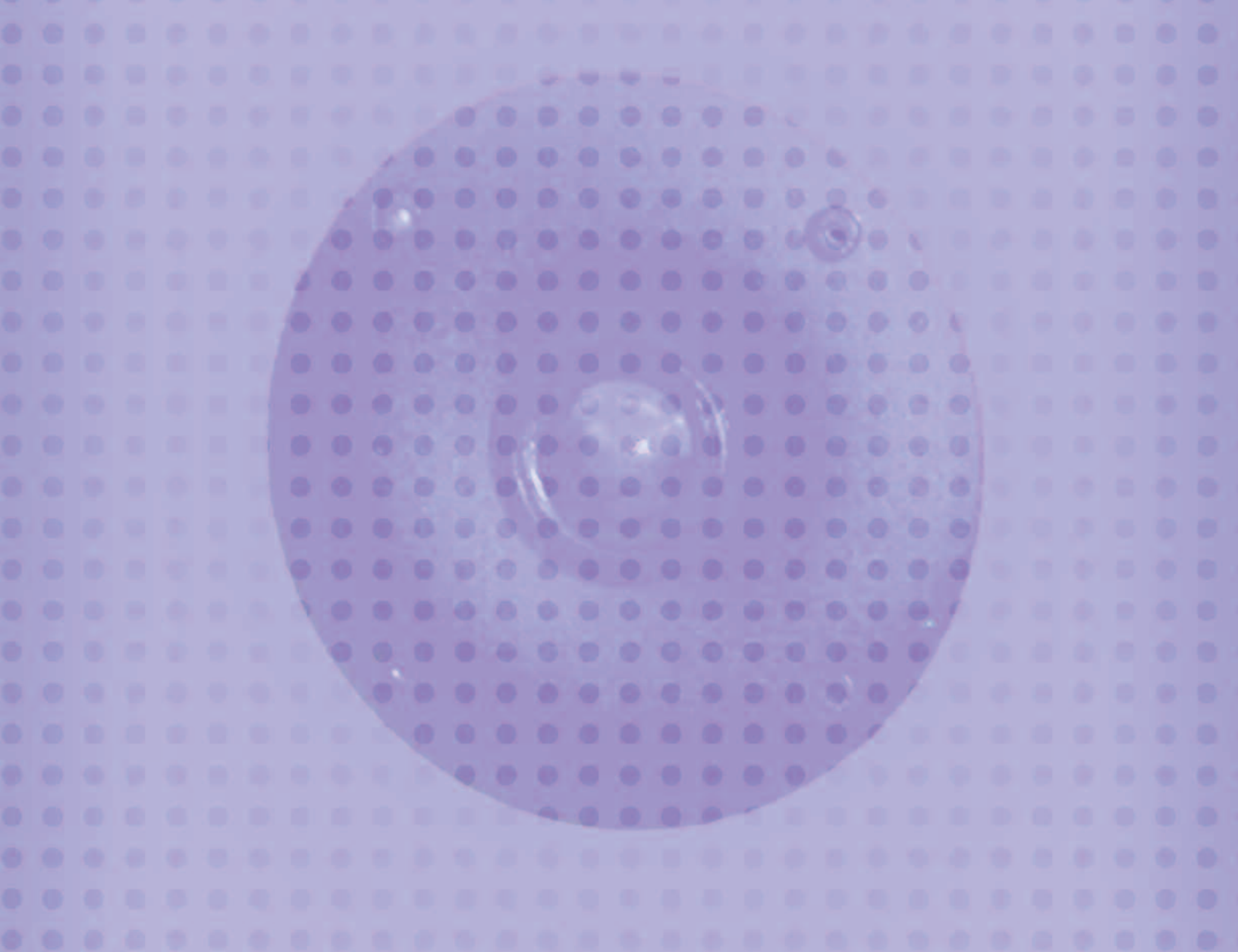
The right hand graph shows how much of the uncontrolled cone movements (distortions) are eliminated by using the FIRTEC® digital signal processing system. Less distortion means less listening fatigue. The additional benefits include a reduction in image masking and an improvement in sonic clarity overall.

Please note that all digitally controlled corrections are performed within a 5 micro-second latency window. FIRTEC® digital signal processing (DSP) means these speakers 'get out of the way of the music' better than any other speakers ever produced.

Impulse response after Firtec®



For morde detailed information in FIRTEC® please contact
KSdigital under www.ksaudio.com



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