

# P750 Acoustic Test System

For

Loudspeaker Unit

Loudspeaker Systems

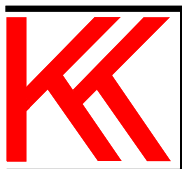
Headphones

Wireless Speaker Systems



The P750 Test System can be used for measurement of following parameters as:

Frequency response against upper / lower limits	Sensitivity against upper / lower limits with move option	Impedance against upper / lower limits
Frequency response against 2. upper / 2. lower limits	Sensitivity test point 1	Resonance
Frequency response against 3. upper / 3. lower limits	Sensitivity test point 2	Qms
Average of Frequency	Sensitivity test point 3	Qts
Average of Frequency in groups	Sensitivity test point 4	F (Fres./Q)
Average1 of sensitivity point 1-5	Sensitivity test point 5	Voice Coil offset, BL
Average2 of sensitivity point 1-5	Rub & Buzz channel B against upper / lower limits	EBP
Polarity	Rub & Buzz channel D against upper / lower limits	T/S parameters
Slope of frequency	THD	Cpk / Ppk



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# P750 Test System

With a fast test time and high performance the P750 is very cost-effective in a fully automated environment. A complete test sequence of 250 different frequency test points can with a single sweep be executed within 0.5 to 3 seconds comprising following parameters listed below picture.

Test data and results are presented graphically on screen and can be stored together with a serial number locally, or through a network for statistics and post-processing.

Access to change of parameters is controlled by a Pass Word Manager.

A master compensation function make is possible to substitute a reference speaker or another test system. An output compressor enables the system to test microphones.

The software has a number of utilities as statistical analysis, export, import and copy of data as well as an optional match function. Statistical analyses include calculation of various numbers of standard deviation and average curves to determine the test limits. The analysis is able to find a best matched unit against the average or another stored unit.

The system consists of a service friendly 2 module high 19" cabinet. The cabinet contains a short protected power amplifier. The A/D & D/C converter use 24 bit with sample frequency on 48, 96 or 192 KHz. P750 is connected to a PC via a USB 2.0 high speed connection.

## Basic specifications:

Analyzing channels:	4 primary, 2 secondary	Test points:	250
Sweep frequency:	10 Hz – 30 KHz	Sweep time:	0.1 – 32 sec.
Filters:	3	Filter frequency range:	20 Hz – 45 KHz
Filter types:	TRK-HP, FIX-HP	Detector modes:	Lin, Log & Spl
Input level:	3.16 mV – 20 V	Input impedance XLR:	> 8 Kohm
Output Jack:	Typ. 1.0 V rms	Input impedance JACK:	> 20 Kohm
PA output type 1:	14 volt @ 8 ohm	PA output type 2:	14 volt @ 8 ohm
PA output type 1:	12 volt @ 4 ohm	PA output type 2:	13.5 volt @ 4 ohm
PA output type 1:	9.5 volt @ 2 ohm	PA output type 2:	11.5 volt @ 2 ohm
Phantom on XLR:	+48 Volt, by software	I/O functions TTL level:	8 inputs, 8 outputs
Optional Input Lemo plug:	+28 & +200 Volt B&K, Grass, ACO etc.	Optional Input BNC:	CCP Typical 4 mA

## Typical test time with a 3 GHz PC and windows 8.1

Including - Polarity test, Ch A, Ch B, Ch C, Ch D and 2 filters on

	Test points:
Frequency range:	250
20 Hz – 20 Khz	< 1.3 sec.
40 Hz – 20 Khz	< 0.9 sec.
100 Hz – 20 Khz	< 0.8 sec.



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