

P740 Acoustic Test System

for

Fast and Efficient Quality Control

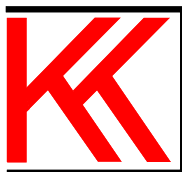
of

Loudspeaker Unit

Loudspeaker Systems

Headphones

Other Transducers



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P740 Test System

The P740 Test System can be used for analysis of the following acoustic test parameters:

Frequency response, sensitivity, polarity, Rub & Buzz, THD, impedance, resonance, Q and F (Fres. / Q) etc.

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

The software has a number of utilities as statistical analysis, export, import and copy of data as well as an optional match function. Statistical analysis includes 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 software is arranged in four modes, an operator mode, a technician mode, a global set-up mode, and a utility mode, which all are protected by passwords.

The P740 system hardware consists of a USB Data Interface P740-DAQ and a USB Gain Controlled pre-Amplifier P740-GCA to be connected to a standard PC via USB ports. The P740-DAQ has a build-in current sense resistor to be connected to an external power amplifier to enable impedance measurement. The P740-GCA has a build-in 48 Volt supply for phantom powered microphones. Both boxes are USB powered. No external PSU are needed.

The P740-DAQ has two inputs and outputs all 24 bits. The default sample rate for P740 program is 96 KHz. Maximal input for the P740-GCA is 10 volt rms.

The P740-GCA have 8 digital input and 8 outputs all on TTL level to enable external control as start test and as return test results.

To complete a P730 as a test system, only an external power amplifier has to be added together with a microphone and a PC. The Preamplifier has 48 Volt phantom power for microphones and a reference generator for self calibrating purpose.

Basic specifications:

Analyzing channels:	A, B, C, D	Test points:	10-250
Sweep frequency:	20 Hz – 20 KHz	Sweep time:	0.1 – 32 sec.
Filters:	2	Filter frequency range:	40 Hz – 18 KHz
Filter types:	TRK-HP, FIX-HP	Detector modes:	Lin, Log & Spl
Input level:	3.16 mV – 10 V	Input impedance XLR:	> 8 Kohm
Output Jack:	Typ. 1.0 V rms	Input multiplex:	Input to Ch. A, B & D
Phantom on XLR:	+48 Volt, by software	I/O functions TTL level:	8 inputs, 8 outputs

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	< 1.5 sec.
40 Hz – 20 Khz	< 1.1 sec.
100 Hz – 20 Khz	< 0.9 sec.



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