

# P630 Pro Acoustic Test System

for

**Fast and Efficient Quality Control**

of

**Loudspeaker Unit**

**Microphones**

**Loudspeaker Systems**

**Telephone Handsets**

**Headphones**

**Other Transducers**



**K & K Development ApS**

Naverland 31, 1 tv DK-2600 Glostrup, Denmark

Phone: +45 44 68 22 94, +45 43 42 22 94

Website: [www.kk-int.com](http://www.kk-int.com)

E-mail: [kk@kk-dev.dk](mailto:kk@kk-dev.dk)

# P630 Pro Test System

Version 1.3j

Windows 8.1, Windows 7, Windows Vista & Windows XP

With a fast test time and high performance due to parallel processing the P630 is very cost-effective in a fully automated environment. A complete test sequence can with a single sweep be executed within 0.1 to 2 seconds comprising following parameters:

Frequency response, Sensitivity, Average, Polarity, Phase, SPL, Rub & Buzz, THD, Impedance, Resonance, Loudness, Current distortion, EBP, Q and F (Fres. / Q), Re, Bl (center of coil), T/S parameters etc.

Ambient noise check ensure reliable test results and if noise level to high automatic repeat the test.

A built-in multiplex function allows a single system to control two different test lines.

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 analysis includes, calculation of various numbers of standard deviation and average curves including Cpk & Ppk to determine the test limits. The analysis is able to find a best matched unit against the average or another stored unit.

A log utility manager makes an automatic registration of every change in setup parameters. This together with a restore / fold back function makes this utility very powerful.

A hardware manager makes changes and calibration of installed hardware very easy.

The system consists of a service friendly 19" cabinet with standard sized modules, a 4-channel 24-bit A/D card and an I/O card to be installed in a PC.

The cabinet contains a short protected power amplifier, up to 6 different input modules, an I/O module and microphone power supply.

## Basic specifications:

Analyzing channels:	4 primary, 4 secondary	Test points:	10 - 250
Sweep frequency:	5 Hz – 30 KHz	Sweep time:	0.1 – 32 sec.
Filters:	4	Filter frequency range:	5 Hz – 45 KHz
Filter types:	TRK-BP/HP, FIX-HP, THD	Detector modes:	Lin, Log & Spl
A/D converter:	4 x 24 bit	Max input modules:	6
Input level Type 1:	3.16 mV – 10 V	Input level Type 2:	3.16 mV – 100 V
Input impedance:	Type 1, 10 Kohm	Input impedance:	Type 2, 1 Mohm
Input multiplex:	Input to Ch. A, B & D	System multiplex:	System 1, System 2
I/O functions:	8 inputs, 5 outputs	Outputs:	A & B (multiplexed)
Power Amplifier:	1x15 Volt rms, 120 VA	Optional PA:	20 Volt rms, 160 VA
Microphone PSU:	200, 28, 120 & 48 Volt	Optional digital PA:	48 Volt rms, 600 VA
PC card type:	2xPCI or 2xPCIe or a mix	External PA: (optional)	P600 PA control box

## Typical test time with a 3 GHz PC and windows XP Including - Polarity test, Ch A, Ch B, Ch C, Ch D and 2 filters on

Frequency range:	Test points:	
	250	125
20 Hz – 20 KHz	< 1.5 (0.5) sec.	< 0.9 (0.5) sec.
40 Hz – 20 KHz	< 1.1 (0.5) sec.	< 0.8 (0.5) sec.
100 Hz – 20 KHz	< 0.6 (0.1) sec.	< 0.4 (0.1) sec.

(Times in bracket is minimum sweep times)



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