

KLIPPEL Analyzer System Package Examples

Examples only. Please check components for your application with the specifications or send a request to KLIPPEL.

Effective from June 15, 2019. Currency: EURO. All prices net, EXW (tax, duty, transportation, support extra).

Klippel GmbH, Germany, Tel.: +49-351-501 939 0, Fax.: +49-351-501 939 10, E-Mail: info@klippel.de, Web: www.klippel.de

System for Transducer Parameter Measurement (Linear)		
Hardware ¹	Klippel Analyzer 3 (LSX)	6.170 €
Modules	TRF Standard - Transfer Function Measurement ³	950 €
	LPM - Linear Parameter Measurement	950 €
total:		8.070 €

Minimal System for Large Signal Woofer Measurement		
Hardware ¹	Klippel Analyzer 3 (LSX)	6.170 €
Modules	LSI3 Woofer - Identification of linear and nonlinear parameters of woofers	5.600 €
total:		11.770 €

Without laser electrical information available only, no mechanical. The shape of nonlinear curves is exact.

To have axis calibrated in absolute terms (N/A or mm) LSI3 needs information from the mechanics.

Importing parameters: BI(x=0) and/or MMS (moving mass) are recommended.

Typical System for Woofer + Tweeter Measurement		
Hardware ¹	Klippel Analyzer 3 (LSX)	6.170 €
Modules	TRF Pro - Transfer Function Measurement + rub & buzz ³	1.950 €
	LPM - Linear Parameter Measurement	950 €
	LSI3 Woofer - Identification of linear and nonlinear parameters of woofers	5.600 €
	LSI3 Micro-Speaker - identification of linear and nonlinear parameters of micro-speakers	5.600 €
	DIS - 3D Distortion Measurement Standard	3.300 €
	TBM - Tone Burst Measurement (CEA2010)	1.900 €
Accessory ⁴	Laser Set LK-H052 (all purpose) or Laser Set LK-H082	7.600 €
	Translation stage (incl. Micrometer)	720 €
	Professional Driver Stand Rev. 1.6	3.080 €
total:		36.870 €

Typical System for Small Speaker Measurement (Micro-Speaker, Multimedia Speaker, Tweeter)		
Hardware ²	Klippel Analyzer 3 (ALSX) - including internal amplifier	7.170 €
Modules	TRF Pro - Transfer Function Measurement + rub & buzz ³	1.950 €
	LPM - Linear Parameter Measurement	950 €
	LSI3 Micro-Speaker - identification of linear and nonlinear parameters of micro-speakers	5.600 €
	DIS - 3D Distortion Measurement Standard	3.300 €
Accessory ⁴	Laser Set LK-H052 (all purpose)	7.600 €
	Translation stage (incl. Micrometer)	720 €
	Micro-speaker Clamping	1.210 €
total:		28.500 €

Scanning Vibrometer System (minimal)		
Hardware ¹	Klippel Analyzer 3 (LSX)	6.170 €
Modules	TRF Standard - Transfer Function Measurement	950 €
SCN	SCN Vibrometer Set (incl. hardware and software)	27.400 €
Accessory ⁴	Laser Set LK-H052 (for SCN only)	7.100 €
	total:	41.620 €

Typical System for Woofer + Tweeter Measurement with Scanning Vibrometer		
Hardware ¹	Klippel Analyzer 3 (LSX)	6.170 €
Modules	TRF Pro - Transfer Function Measurement + rub & buzz ³	1.950 €
	LPM - Linear Parameter Measurement	950 €
	LSI3 Woofer - Identification of linear and nonlinear parameters of woofers	5.600 €
	LSI3 Micro-Speaker - Identification of linear and nonlinear parameters of micro-speakers	5.600 €
	DIS - 3D Distortion Measurement Standard	3.300 €
	TBM - Tone Burst Measurement (CEA2010)	1.900 €
Accessory ⁴	Laser Set LK-H052 (for SCN only)	7.100 €
	Laser Set LK-H082 (all-purpose)	7.600 €
	Translation stage (incl. Micrometer)	720 €
	Microphone Mic 255 IEPE 1/2" Set	1.000 €
	Professional Driver Stand Rev. 1.6	3.080 €
SCN	SCN Vibrometer Set (incl. hardware and software)	27.400 €
SCN optional modules	RMA - Rocking Mode Analysis	3.900 €
	Radiation Area SD	1.050 €
	Sound Power/Directivity	1.050 €
	total:	78.370 €

Typical System for Micro-Speaker Measurement with Scanning Vibrometer		
Hardware ²	Klippel Analyzer 3 (ALSX) - including internal amplifier	7.170 €
Modules	TRF Pro - Transfer Function Measurement + rub & buzz ³	1.950 €
	LPM - Linear Parameter Measurement	950 €
	MMT - Microspeaker Multipoint Tool	2.800 €
	LSI3 Micro-Speaker - Identification of linear and nonlinear parameters of micro-speakers	5.600 €
	DIS - 3D Distortion Measurement Standard	3.300 €
Accessory ⁴	Laser Set LK-H052 (for SCN only)	7.100 €
	Vacuum Measurement Kit	2.990 €
	Vacuum Stand	940 €
	Microphone Mic 255 IEPE 1/2" Set	1.000 €
	Mic Gooseneck	63 €
	Mic Clamping Adapter; Swivel Head / Ball Joint	39 €
SCN	SCN Vibrometer Set (incl. hardware and software)	27.400 €
SCN optional modules	RMA - Rocking Mode Analysis	3.900 €
	Radiation Area SD	1.050 €
	Sound Power/Directivity	1.050 €
	total:	67.302 €

System for Measurement of Balanced Armature Transducer with Scanning Vibrometer		
Hardware ²	Klippel Analyzer 3 (ALSX) - including internal amplifier	7.170 €
Modules	TRF Pro - Transfer Function Measurement + rub & buzz ³	1.950 €
	LPM - Linear Parameter Measurement	950 €
	BAC - Balanced Armature Check	5.200 €
	DIS - 3D Distortion Measurement Standard	3.300 €
Accessory ⁴	Laser Set LK-H052 (for SCN only)	7.100 €
	Vacuum Stand (Micro-Speaker fixture on SCN turntable)	940 €
	Microphone Mic 255 IEPE 1/2" Set	1.000 €
	Mic Gooseneck	63 €
	Mic Clamping Adapter; Swivel Head / Ball Joint	39 €
SCN	SCN Vibrometer Set (incl. hardware and software)	27.400 €
SCN optional modules	Radiation Area SD	1.050 €
	total:	56.162 €

Typical Simulation Tools - for typical systems for Woofer, Tweeter or Micro Speaker Measurements

Modules	SIM - Simulation ⁵	3.570	€
	SIM-AUR - Simulation and Auralization of large signal speaker perform. (with music) ⁶	4.300	€
	DIF-AUR - Auralization of defect symptoms based on signal differences	3.800	€
	total:	11.670	€

¹also required: Computer and Amplifier or Klippel Analyzer 3 with Amp Card: 7.170 €

²also required: Computer

³Measurement Microphone required

⁴other laser may be required in addition

⁵DIS required

⁶LPM and/or LSI and/or SIM2 required