

KLIPPEL Analyzer System Package Examples

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

Errors and omissions excepted.

Effective from June 01, 2024. Currency: EURO. All prices net, EXW (tax, duty, transportation, support extra).

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System for Transducer Parameter Measurement (Linear)		
Hardware ¹	Klippel Analyzer 3 (LSX)	7.560 €
Modules	TRF Standard - Transfer Function Measurement ³	1.250 €
	LPM - Linear Parameter Measurement	1.250 €
total:		10.060 €

Minimal System for Large Signal Woofer Measurement		
Hardware ¹	Klippel Analyzer 3 (LSX)	7.560 €
Modules	LSI3 Woofer - Identification of linear and nonlinear parameters of woofers	7.440 €
	total:	15.000 €

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: $Bl(x=0)$ and/or MMS (moving mass) are recommended.

Typical System for Woofer + Tweeter Measurement		
Hardware ¹	Klippel Analyzer 3 (LSX)	7.560 €
Modules	TRF Pro - Transfer Function Measurement + rub & buzz ³	3.020 €
	LPM - Linear Parameter Measurement	1.250 €
	LSI3 Woofer - Identification of linear and nonlinear parameters of woofers	7.440 €
	LSI3 Micro-Speaker - identification of linear and nonlinear parameters of micro-speakers	7.440 €
	DIS - 3D Distortion Measurement Standard	4.380 €
	MTON - Multi-Tone Measurement	3.630 €
	TBM - Tone Burst Measurement (CEA2010)	2.510 €
Accessory ⁴	Laser Set LK-H052 (all purpose) or Laser Set LK-H082 (all-purpose)	8.320 €
	Translation stage (incl. Micrometer)	820 €
	Professional Driver Stand	4.130 €
total:		50.500 €

Typical System for Small Speaker Measurement (Micro-Speaker, Multimedia Speaker, Tweeter)		
Hardware ²	Klippel Analyzer 3 (ALSX) - including internal amplifier	8.560 €
Modules	TRF Pro - Transfer Function Measurement + rub & buzz ³	3.020 €
	LPM - Linear Parameter Measurement	1.250 €
	LSI3 Micro-Speaker - identification of linear and nonlinear parameters of micro-speakers	7.440 €
	DIS - 3D Distortion Measurement Standard	4.380 €
	MTON - Multi-Tone Measurement	3.630 €
Accessory ⁴	Laser Set LK-H052 (all purpose)	8.320 €
	Translation stage (incl. Micrometer)	820 €
	Micro-speaker Clamping	1.870 €
total:		39.290 €

Scanning Vibrometer System (minimal)		
Hardware ¹	Klippel Analyzer 3 (LSX)	7.560 €
Modules	TRF Standard - Transfer Function Measurement	1.250 €
SCN	Multi Scanning Workbench	24.800 €
Software for SCN	Software for Multi-Scanning Workbench - Mechanical Analysis	17.890
Accessory ⁴	Laser Set LK-H052 (for SCN only)	7.800 €
	total:	59.300 €

Typical System for Woofer + Tweeter Measurement with Multi-Scanning Workbench		
Hardware ¹	Klippel Analyzer 3 (LSX)	7.560 €
Modules	TRF Pro - Transfer Function Measurement + rub & buzz ³	3.020 €
	LPM - Linear Parameter Measurement	1.250 €
	MMT - Multipoint Measurement Tool	3.710 €
	LSI3 Woofer - Identification of linear and nonlinear parameters of woofers	7.440 €
	LSI3 Micro-Speaker - Identification of linear and nonlinear parameters of micro-speakers	7.440 €
	DIS - 3D Distortion Measurement Standard	4.380 €
	MTON - Multi-Tone Measurement	3.630 €
	TBM - Tone Burst Measurement (CEA2010)	2.510 €
Accessory ⁴	Laser Set LK-H052 (for SCN only)	7.800 €
	Laser Sensor Head LK-H082 (all purpose) (sharing the laser controller of LK-H052)	5.070 €
	Translation stage (incl. Micrometer)	820 €
	Microphone Mic 255 IEPE 1/2" Set	1.100 €
	Professional Driver Stand	4.130 €
SCN	Multi Scanning Workbench	24.800 €
Software for SCN	Software for Multi-Scanning Workbench - Mechanical Analysis	17.890 €
SCN optional modules	RMA - Rocking Mode Analysis	5.180 €
	total:	107.730 €

Typical System for Micro-Speaker Measurement with Scanning Vibrometer		
Hardware ²	Klippel Analyzer 3 (ALSX) - including internal amplifier	8.560 €
Modules	TRF Pro - Transfer Function Measurement + rub & buzz ³	3.020 €
	LPM - Linear Parameter Measurement	1.250 €
	MMT - Multipoint Measurement Tool	3.710 €
	LSI3 Micro-Speaker - Identification of linear and nonlinear parameters of micro-speakers	7.440 €
	DIS - 3D Distortion Measurement Standard	4.380 €
	MTON - Multi-Tone Measurement	3.630 €
Accessory ⁴	Laser Set LK-H052 (for SCN only)	7.800 €
	Vacuum Measurement Kit (default vacuum pump)	3.370 €
	Vacuum Stand	1.350 €
	Microphone Mic 255 IEPE 1/2" Set	1.100 €
	Mic Gooseneck	70 €
	Mic Clamping Adapter; Swivel Head / Ball Joint	80 €
SCN	Multi Scanning Workbench	24.800 €
Software for SCN	Software for Multi-Scanning Workbench - Mechanical Analysis	17.890 €
SCN optional modules	RMA - Rocking Mode Analysis	5.180 €
	total:	93.630 €

System for Measurement of Balanced Armature Transducer with Scanning Vibrometer			
Hardware ²	Klippel Analyzer 3 (ALSX) - including internal amplifier	8.560	€
Modules	TRF Pro - Transfer Function Measurement + rub & buzz ³	3.020	€
	LPM - Linear Parameter Measurement	1.250	€
	BAC - Balanced Armature Check	6.910	€
	DIS - 3D Distortion Measurement Standard	4.380	€
	MTON - Multi-Tone Measurement	3.630	€
Accessory ⁴	TFA - Time Frequency Analysis	2.380	€
	Laser Set LK-H052 (for SCN only)	7.800	€
	Vuum Stand (Micro-Speaker fixture on SCN turntable)	1.350	€
	Microphone Mic 255 IEPE 1/2" Set	1.100	€
	Mic Gooseneck	70	€
	Mic Clamping Adapter; Swivel Head / Ball Joint	80	€
SCN	Multi Scanning Workbench	24.800	€
Software for SCN	Software for Multi-Scanning Workbench - Mechanical Analysis	17.890	€
SCN optional modules	RMA - Rocking Mode Analysis	5.180	€
	total:	88.400	€

Typical Simulation Tools - for typical systems for Woofer, Tweeter or Micro Speaker Measurements			
Modules	LSIM - Linear Simulation ⁵	3.380	€
	SIM - Simulation ⁶	4.740	€
	SIM-AUR - Simulation and Auralization of large signal speaker perform. (with music) ⁷	5.720	€
	total:	13.840	€

¹also required: Computer and Amplifier or Klippel Analyzer 3 with Amp Card: 8.560 €

²also required: Computer

³Measurement Microphone required

⁴other laser may be required in addition

⁵LPM required

⁶DIS required

⁷LPM and/or LSI and/or SIM2 required