

## KLIPPEL R&D SYSTEM - Package Examples

Effective from May 1, 2017. Currency: EURO. All prices net. (VAT, duty, export, import, shipping extra)  
 KLIPPEL GmbH, Germany, Tel. +49-351-50 19 39-0, sales@klippel.de, www.klippel.de

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

<b>System for Linear Parameter Measurements</b>		
Hardware*	Klippel Analyzer 3	6.170 €
Modules	TRF Standard - Transfer Function Measurement **	950 €
	LPM - Linear Parameter Measurement	950 €
	<b>total:</b>	<b>8.070 €</b>

<b>Minimal System for Large Signal Woofer Measurements</b>		
Hardware*	Klippel Analyzer 3	6.170 €
Modules	LSI3 Woofer - Large Signal Identification Woofer	5.600 €
	<b>total:</b>	<b>11.770 €</b>
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) is recommended.		

<b>Typical System for Woofer + Tweeter Measurements</b>		
Hardware*	Klippel Analyzer 3	6.170 €
Modules	TRF Pro - Transfer Function Meas. + Rub&Buzz**	1.950 €
	LPM - Linear Parameter Measurement	950 €
	LSI3 Woofer - Large Signal Identification Woofer	5.600 €
	LSI3 Micro-Speaker - Large Signal Identification Micro-Speaker	5.600 €
	DIS - 3D Distortion Measurement Standard	3.300 €
	TBM - Tone Burst Measurement (CEA2010)	1.900 €
Accessories***	Laser Set LK-H052 (all purpose) or Laser Set LK-H082	7.600 €
	Translation Stage	630 €
	Driver Stand	2.600 €
	<b>total:</b>	<b>36.300 €</b>

<b>Typical System for Small Speaker Measurements (Micro Speaker, Multimedia Speaker, Tweeter)</b>		
Hardware*	Klippel Analyzer 3	6.170 €
Modules	TRF Pro - Transfer Function Meas. + Rub&Buzz**	1.950 €
	LPM - Linear Parameter Measurement	950 €
	LSI3 Micro-Speaker - Large Signal Identification Micro-Speaker	5.600 €
	DIS - 3D Distortion Measurement Standard	3.300 €
Accessories***	Microspeaker Clamping	1.100 €
	Laser Set LK-H052 - all purpose	7.600 €
	Translation Stage	630 €
	<b>total:</b>	<b>27.300 €</b>

<b>Scanning Vibrometer System (minimal)</b>		
Hardware*	Klippel Analyzer 3	6.170 €
Modules	TRF Standard - Transfer Function Measurement Standard	950 €
SCN	SCN Vibrometer Set (incl. HW + SW)	27.000 €
Accessories	Laser Set LK-H052 for SCN only	7.100 €
	<b>total:</b>	<b>41.220 €</b>

<b>Typical System for Woofer + Tweeter Measurements with Scanning Vibrometer</b>		
Hardware*	Klippel Analyzer 3	6.170 €
Modules	TRF Pro - Transfer Function Meas. + Rub&Buzz	1.950 €
	LPM - Linear Parameter Measurement	950 €
	LSI3 Woofer - Large Signal Identification Woofer	5.600 €
	LSI3 Micro-Speaker - Large Signal Identification Micro-Speaker	5.600 €
	DIS - 3D Distortion Measurement Standard	3.300 €
	TBM - Tone Burst Measurement (CEA2010)	1.900 €
Accessories	Laser LK-H052 Set (for SCN hardware only)	7.100 €
	Laser Sensor Head LK-H082 with mounting parts & 5m cable	4.600 €
	Translation Stage	630 €
	Driver Stand	2.600 €
	Mic 255 IEPE 1/2" Set	990 €
SCN	SCN Vibrometer Set (incl. HW + Software)	27.000 €
SCN optional modules	Import/Export Interface	1.900 €
	RMA - Rocking Mode Analysis	3.900 €
	Radiation Area SD	1.050 €
	Sound Power/Directivity	1.050 €
	<b>total:</b>	<b>76.290 €</b>

<b>Typical System for Micro-Speaker with Scanning Vibrometer</b>		
Hardware*	Klippel Analyzer 3	6.170 €
Modules	TRF Pro - Transfer Function Meas. + Rub&Buzz	1.950 €
	LPM - Linear Parameter Measurement	950 €
	MMT - Microspeaker Multipoint Tool	2.800 €
	LSI3 Micro-Speaker - Large Signal Identification Micro-Speaker	5.600 €
	DIS - 3D Distortion Measurement Standard	3.300 €
Accessories	Laser LK- H52 Set (for SCN hardware only)	7.100 €
	Vacuum Measurement Kit	2.800 €
	Vacuum Stand	720 €
	Mic 255 IEPE 1/2" Set	990 €
	Mic Gooseneck	45 €
	Mic Clamping Adapter; Swivel Head / Ball Joint	35 €
SCN	SCN Vibrometer Set (incl. HW + Software)	27.000 €
SCN optional modules	Import/Export Interface	1.900 €
	RMA - Rocking Mode Analysis	3.900 €
	Radiation Area SD	1.050 €
	Sound Power/Directivity	1.050 €
	<b>total:</b>	<b>67.360 €</b>

<b>Typical Simulation Tools - add-on package for systems for Woofer, Tweeter or Micro Speaker Measurements</b>		
Modules	SIM - Simulation****	3.570 €
	SIM-AUR - Simulation and Auralization of large signal speaker perform. (with music) *****	4.300 €
	DIF-AUR - Auralization of defect symptoms based on signal differences	3.800 €
	<b>total:</b>	<b>11.670 €</b>

\*also required: Computer and Amplifier

\*\*Measurement Microphone required

\*\*\*other laser may be required in addition

\*\*\*\*DIS required

\*\*\*\*\* LPM and/or LSI and/or SIM2 required

