

KLIPPEL Analyzer System Package Examples

Klippel GmbH, Germany

Tel. +49-351-501 939 0, Fax. +49-351-501 939 10

info@klippel.de, www.klippel.de

All prices net, EXW (tax, duty, transportation, support extra)

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

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| 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: Bl(x=0) and/or MMS (moving mass) is 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 Sensor Head LK-H082 with mounting parts & 5m cable | 4.600 € |
| | Translation stage (incl. Micrometer) | 720 € |
| | Microphone Mic 255 IEPE 1/2" Set | 990 € |
| | 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: | 75.360 € |

| 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 | 2.840 € |
| | Vacuum Stand | 940 € |
| | Microphone Mic 255 IEPE 1/2" Set | 990 € |
| | 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: | 67.142 € |

| 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 | 990 € |
| | 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: | 56.152 € | |

| 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