KLIPPEL Analyzer System Price-List

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Currency	EUR

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

Item No.	Product	Explanation	Compat. HW	Spec	Price per Unit	QC-EOL
Hardware						
2000-300	KA3 - Klippel Analyzer 3 (LSX) default configuration, Set	incl. Laser-Card, Speaker-Card, XLR-Card, power supply, cable set, project management software (dB-Lab 210)		H3	6.780 EUR	✓
2000-310	KA3 - Klippel Analyzer 3 (ALSX), default with internal Amp, Set	incl. Amp Card, Laser Card, Speaker Card, XLR Card, power supply, cable set, project management software (dB-Lab 210)		H3	7.880 EUR	✓
2000-325	KA3 - Klippel Analyzer 3 (ALS) special configuration, Set	incl. Amp Card, Laser Card, Speaker Card, power supply, cable set, project management software (dB-Lab 210)		H3	6.930 EUR	✓
2000-323	KA3 - Klippel Analyzer 3 (SX) special configuration, Set	incl. Speaker Card, XLR Card, power supply, cable set, project management software (dB-Lab 210)		H3	5.690 EUR	
2000-330	KA3 - Klippel Analyzer 3 (LX) special configuration, Set	incl. Laser Card, XLR Card, power supply, cable set, project management software (dB-Lab 210), recommended for wireless (e.g. Bluetooth®) speaker, headphone testing		H3	5.560 EUR	✓
2000-324	KA3 - Klippel Analyzer 3 (L) special configuration, Set	incl. Laser Card, power supply, cable set, project management software (dB-Lab 210), recommended for wireless (e.g. Bluetooth®) speaker, headphone or noise and vibration testing		H3	4.610 EUR	✓
2000-333	KA3 - Klippel Analyzer 3 (LQ) EoL configuration, Set	incl. Laser Card, QC Card, power supply, cable set, project management software (dB-Lab 210), recommended for dedicated LST application		H3	6.010 EUR	✓
2000-326	KA3 - Klippel Analyzer 3 (Q) EoL configuration, Set	incl. QC-Card, power supply, cable set		H3	4.920 EUR	✓
4000-100	PA - Production Analyzer	QC hardware incl. cable set		H4	3.300 EUR	✓
Other KA3 card configurations are available on request.						
QC Software for end-of-line testing (EOL)*						
4004-001	QC STANDARD Software, Release QC6	full EOL-testing software for ultra-fast and complex measurements, incl. tasks (SPL, IMP, SAN, PP, IO), QC Start and dB-Lab 210	KA3+Dongle3| PA2+Dongle3	C3	3.630 EUR	✓
4004-200	QC Basic Software, Release QC6	cost-efficient EOL-testing software for common applications, incl. SPL-Impedance task, QC Start and dB-Lab 210; easy upgrade option to QC STANDARD	KA3+Dongle3| PA2+Dongle3	C3	1.650 EUR	✓
4004-250	QC Basic Software, Release QC6 (SAN)	cost-efficient EOL-testing software for noise and vibration applications, incl. SAN task, QC Start and dB-Lab 210; easy upgrade option to QC STANDARD	KA3+Dongle3| PA2+Dongle3	C3	1.650 EUR	✓
4004-300	QC Remote Configuration Software, Release QC6	allows modification of limits and set up without hardware	Dongle3	S14	1.430 EUR	✓
Transducer Parameter Identification Modules*						
1000-400	LPM - Linear Parameter Measurement	identification of linear electrical and mechanical parameters	KA3|DA2	S2	1.040 EUR	
1000-403	MMT - Multipoint Measurement Tool	post-processing of the results of multiple LPM measurements (dB-Lab 210 and LPM required)	DA2|KA3	AN50	3.080 EUR	
4000-262	IMP - Impedance Task	QC-Task: Linear Parameter Measurement (TS-Parameter)	KA3| PA+Dongle3	C3	1.040 EUR	✓
4000-265	TSX - QC Laser Fitting	Add-on for IMP Task: Thiele Small parameter identification with laser	KA3	C3	950 EUR	✓
2000-250	LSI3 Woofer - Large Signal Identification for KA3	identification of linear and nonlinear parameters of woofers in free air, sealed and vented enclosures	KA3	S52	6.160 EUR	
2000-260	LSI3 Micro-Speaker - Large Signal Identification for KA3	identification of linear and nonlinear parameters of micro-speakers, tweeters and compression drivers in free air, sealed and vented enclosures	KA3	S52	6.160 EUR	
4000-230	MSC - Motor + Suspension Check	QC-Task: fast measurement of voice coil offset and suspension asymmetry	KA3| PA+Dongle2|3	S13	5.440 EUR	✓

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Item No.	Product	Explanation	Compat. HW	Spec	Price per Unit	QC-EOL
1000-212	LSI Woofer - Large Signal Identification Woofer for DA2	identification of linear, nonlinear and thermal parameters of woofer drivers in free air	DA2	S1	7.150 EUR	
1000-230	LSI Woofer + Box - Large Signal Identification Woofer + Box for DA2	identification of linear, nonlinear and thermal parameters of woofer drivers in free air, sealed and vented enclosures	DA2	S1	8.140 EUR	
1000-232	LSI Woofer + Box Upgrade for DA2	upgrade from LSI Woofer to LSI Woofer + Box	DA2	S1	990 EUR	
1000-220	LSI Tweeter - Large Signal Identification Tweeter for DA2	identification of linear, nonlinear and thermal parameters of tweeters, micro speakers, compression drivers in free air	DA2	S1	7.150 EUR	
1000-221	LSI Tweeter special for DA2	special price for LSI Woofer user	DA2	S1	3.190 EUR	
4000-260	BAC - Balanced Armature Check	QC-Task: test armature offset of BA drivers for earphones and hearing aids	KA3|PA+Dongle2|3	S39	5.720 EUR	✓
Frequency Response + Distortion Modules*						
1000-900	TRF Standard - Transfer Function Measurement Standard	measurement of transfer function and harmonic distortion	KA3|DA2	S7	1.040 EUR	
1000-910	TRF Pro - Transfer Function Measurement Professional	measurement of transfer function, harmonic distortion and rub & buzz	KA3|DA2	S8	2.140 EUR	
1000-911	TRF Pro Upgrade	upgrade from TRF Standard to TRF Pro	KA3|DA2	S8	1.100 EUR	
1000-800	DIS - 3D Distortion Measurement Standard	measurement of intermodulation distortion, harmonic distortion, DC displacement and compression	KA3|DA2	S4	3.630 EUR	
1000-810	DIS Pro - 3D Distortion Measurement Professional	DIS features + measurement of HI2 and amplitude intermodulation distortion	KA3|DA2	S4	4.730 EUR	
1000-811	DIS Pro Upgrade	upgrade from DIS to DIS Pro	KA3|DA2	S4	1.100 EUR	
1001-109	TBM - Tone Burst Measurement	peak SPL measurements using tone burst signals (CEA2010)	KA3|DA2	S44	2.090 EUR	
1001-114	MTON - Multi-Tone Measurement (Pre-release)	Multi-tone fundamental and distortion, max SPL according to IEC 60268-21, ANSI/CEA-2010-B, ANSI/CEA-2034 considering MT-distortion, thermal and mechanical compression	KA3|DA2	S64	2.090 EUR	
4000-003	MTD Multi-tone Distortion Task	QC-Task: Multitone-fundamental and distortion	KA3+Dongle3|PA2+Dongle3	S68	1.650 EUR	✓
4000-240	ALD - Air Leak Detection	QC-Task: detect air leaks in transducers and audio systems	KA3|PA+Dongle2|3	S18	3.520 EUR	✓
4000-243	ALS - Air Leak Stethoscope	QC-Task: localization of air leaks in loudspeaker systems	KA3|PA+Dongle2|3	S30	3.080 EUR	✓
4000-263	SPL - Sound pressure based acoustic tests	QC-Task: measurement of frequency response, THD and Rub&Buzz	KA3|PA+Dongle3	C3	1.540 EUR	✓
4000-200	MHT - Meta Hearing Technology	Add-on for SPL Task: defect detection beyond human hearing	KA3|PA+Dongle2|3	S20	1.500 EUR	✓
4000-268	HI-2 - Weighted harmonic distortion	Add-on for SPL Task: amplitude response of weighted harmonic distortion components versus frequency (HI-2)	KA3|PA+Dongle3	AN7	940 EUR	✓
4000-245	EQA - Equalization + Alignment Standard	QC-Task: automatic or assisted adjustment of user-defined level or frequency response	KA3|PA+Dongle2|3	S33	740 EUR	✓
4000-270	DCX - Dynamic DC Check	Add-on for SPL and EQA Task: measurement of AC/DC displacement with laser (DC input modification of Production Analyzer Hardware required)	KA3|PA+Dongle3	S37	3.520 EUR	✓
4000-266	3DL - Spectrogram 3D Limits (Pre-release)	Add-on for SPL Task: powerful and intuitive defect (Rub & Buzz) analysis based on auditory time/frequency (spectrogram) analysis	KA3|PA+Dongle3	S63	1.100 EUR	✓
4000-290	EAR - Perceptive metrics based on the human ear (Pre-release)	Add-on for SPL Task: Roughness Ratio, Sharpness Ratio, Mean Disturbance to Mask Ratio	Dongle3		1.250 EUR	✓

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4000-267	SAN - Spectrum Analysis (formerly Coherence)	QC-Task: FFT spectrum, frequency response, A-weighted SPL and distortion with/without noise generator or user-defined stimulus for noise & vibration or audio system testing	KA3|PA+Dongle3	S65	990 EUR	✓
1000-920	TFA - Time-Frequency Analysis	3D visualization tool vs time and frequency for impulse and time responses using wavelets, filter-bank or STFT dB-Lab 210 or higher required	KA3|DA2|Dongle3	S61	1.980 EUR	
Simulation, Auralization Modules*						
1000-300	LSIM - Linear Simulation (Pre-release)	fast and comprehensive simulation of the linear transfer behavior of transducers and passive/active loudspeaker systems	KA3|Dongle3	S58	3.080 EUR	
1000-310	SIM - Simulation	linear, nonlinear and thermal simulation	KA3|DA2|Dongle2|3	S3	3.920 EUR	
1000-601	SIM-AUR - Simulation Auralization	simulation and auralization of large signal speaker performance (music)	KA3|DA2|Dongle3	S24	4.730 EUR	
1001-104	DIF-AUR - Difference Auralization (Pre-release)	auralization of defect symptoms based on signal differences	KA3|DA2|Dongle3	S22	4.180 EUR	
Scanning Vibrometer*						
2510-004	SCN Vibrometer Set	3D scanner + motor control + SCN Analysis Software + Import/Export Interface (2 licenses for DA + USB Dongle, or for 2 USB Dongle - for use with KA3)	KA3+Dongle2|DA2+Dongle2	C5	28.770 EUR	
2510-010	SCN Analysis Software	vibration and radiation analysis software (visualization, SPL, directivity, decomposition) + Import/Export Interface, for 1 USB Dongle without SCN Hardware	Dongle2	C5	9.920 EUR	
2510-013	SCN Analysis Software Update	from Version 1 to Version 2	Dongle2	C5	2.090 EUR	
2510-030	SCN Radiation Area SD Module	SCN Module: calculation of effective radiation area SD based on laser scanning	DA2, Dongle2	C5	1.150 EUR	
2510-040	SCN Sound Power / Directivity Module	SCN Module: calculation of sound power and directivity index based on laser scanning	DA2, Dongle2	C5	1.150 EUR	
1001-108	RMA - Rocking Mode Analysis	detection of the root-cause of rocking in microspeakers and other transducers (inhomogeneous stiffness, mass or B-field distribution)	KA3|DA2|Dongle3	S49	4.290 EUR	
1001-111	HMA - Higher Order Modal Analysis (Pre-release)	automatic extraction of modal parameters of loudspeaker diaphragms	KA3|DA2|Dongle3	S51	3.740 EUR	
2510-043	Poly2SCN	merging 2D or 3D vibration-geometry data from Polytec scanning systems to the Klippel SCN Software (Import/Export Interface also required)	Dongle2/3	S45	1.650 EUR	
Directivity + Room Correction*						
2520-010	Near Field Scanner System	incl. NFS HW, NFS Robotics SW, NFS Visualisation SW (visualisation of far field characteristic r≥3m), NFS Field Identification SW (2 licenses for KA3/DA + Dongle)	KA3|DA2 + Dongle3	C8	46.090 EUR	
2520-020	Near Field Scanner extended System w/ 2m Z-axis	incl. NFS HW with 2 m Z-axis, NFS Robotics SW, NFS Visualisation SW (visualisation of far field characteristic r≥3m), NFS Field Identification SW - 2 licenses for KA3/DA2 + Dongle	KA3|DA2 + Dongle3	C8	47.190 EUR	
2520-012	NFS Direct Sound Separation Module (formerly NFS Field Separation Module)	analysis with separation of the room, to measure under non-anechoic conditions	KA3|DA2 + Dongle3	C8	18.810 EUR	
2520-013	NFS Near Field Analysis Module	Visualisation of the sound pressure field in the nearfield (≤r meas.)	KA3|DA2 + Dongle3	C8	5.280 EUR	
2520-015	NFS Comparison Module	comfortable comparison of NFS measurements	KA3|DA2 + Dongle3	C8	3.190 EUR	
2520-016	NFS Complex Data Export Module	amplitude and phase export (EASE)	KA3|DA2 + Dongle3	C8	7.480 EUR	
2520-017	NFS Multi-Source Superposition Module	comfortable scanning of multiple transducers of a loudspeaker array (Multiplexer recommended)	KA3|DA2 + Dongle3	C8	3.080 EUR	

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2520-018	NFS Baffle Measurement Module	Control software to measure 3D directivity of transducers mounted in a baffle (half space 2pi) with the Near Field Scanner (requires NFS Baffle Hardware)	KA3|DA2	C8	5.390 EUR	
2520-025	NFS Baffle Rev. 1.0, Set	Hardware add-on for the Near Field Scanner system to measure transducers mounted in a baffle in half space (2pi) incl. NFS Microphone Collision Sensor for NFS Rev. ≤ 1.0.7		C8	7.530 EUR	
2520-019	NFS Holographic Parameter Export Module (Pre-release)	export of comprehensive holographic coefficients describing the entire sound field	KA3|DA2 + Dongle3	C8	7.480 EUR	
2520-030	ISC - In Situ Room Compensation	correction filter for compensation of room influence	KA3|DA2	S62	1.320 EUR	
1001-103	POL - Polar Far Field Measurement Ver. 2	anechoic directivity measurement and visualisation (CEA 2034) (TRF for dB-Lab 210 or higher and turn table required)	KA3|DA2	S41	1.980 EUR	
2560-001	Turntable Outline ET250 -3D Set	precision turntable for polar measurement, incl. power cord, 3 m RJ45 Cat6 cable	KA3, DA2		6.220 EUR	
Transducer Part + Material Parameter Measurement*						
2500-100	SPM Pro Bench Set	for linear + nonlinear testing incl. Ring Set and Cup & Cone Set (metal)		C2	10.080 EUR	
2500-101	SPM Pro Bench	Measurement Bench without clamping parts for SPM Pro/Lite, LST		C2, C6	7.300 EUR	✓
2500-300	LST Bench Set - for Internal Laser	for QC: LST testing of spiders, surrounds, cones, passive radiators, incl. internal laser mounting and adjustment slider		C6	1.040 EUR	✓
2500-310	LST Bench Set - for External Laser	for QC: LST testing for RnD: linear SPM & MPM measurements of spiders, surrounds, cones, passive radiators, incl. external laser mounting and adjustment bar		C6	1.540 EUR	✓
2500-142	LST - Internal Laser Fixture Set	2-dimensional internal Laser mounting and adjustment unit, incl. mounting brackets and screws, distance adjustment washer set		C6	330 EUR	✓
2500-141	LST - External Laser Fixture	2-dimensional external laser mounting and adjustment boom, incl. sensor slide rail, laser sensor rod		C6	810 EUR	✓
2500-302	Ring Set	clamping parts for SPM Bench + LST Bench		C2	1.440 EUR	✓
2500-111	Cup & Cone Set (metal)	clamping parts for SPM Bench		C2	1.380 EUR	
2500-301	Cone Set (plastic)	clamping parts for LST Bench (SPM Bench)		C6	530 EUR	✓
2500-103	SPM Lite - Suspension Part Measurement Lite	software for linear testing of transducer suspension parts with LST Bench or SPM Pro Bench	KA3|DA2	C7	1.040 EUR	
2500-102	SPM Pro - Suspension Part Measurement Professional	software for linear and nonlinear testing of transducer suspension parts with SPM Pro Bench	KA3|DA2	C2	2.640 EUR	
4000-242	LST Lite - Linear Suspension Test Lite	QC-Task: compliance check of spiders, cones and surrounds	KA3| PA+Dongle2|3	C6	1.150 EUR	✓
4000-244	LST Pro - Linear Suspension Test Professional	QC-Task: LST Lite features + monitoring mass and stiffness deviation for passive radiators	KA3| PA+Dongle2|3	C6	2.200 EUR	✓
4000-248	LST Pro Upgrade	upgrade from LST Lite to LST Pro		C6	1.050 EUR	✓
2500-604	MSPM Bench Set, Rev. 1.1	Small measurement bench for linear + nonlinear testing of small suspension parts (micro-speakers, headphones), Rev. 1.1 incl. Extended Clamping Ring + Adapter, 70 mm		A12	1.980 EUR	✓
2500-603	MSPM Lite - Micro Suspension Part Measurement Lite	software for linear testing of small suspension parts (micro-speakers, headphones) dB-Lab 210 or higher required	KA3|DA2	C10	3.080 EUR	
2500-602	MSPM Pro - Micro Suspension Part Measurement Professional	software for linear and nonlinear testing of small suspension parts (micro-speakers, headphones) dB-Lab 210 or higher required	KA3|DA2	C11	7.480 EUR	
2500-200	MPM Clamp for SPM Bench	MPM measurment clamping set as accessory for SPM Pro Bench		C4	810 EUR	

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2500-220	MPM Clamp for LST Bench Set, incl. LST Fixing Grips	MPM measurment clamping set incl. LST Fixing Grips as accessory for LST Bench		C4	970 EUR	
2500-210	MPM - Material Parameter Measurement	software for parameter measurement: E modulus, loss factor	DA2|KA3+Dongle2	C4	2.090 EUR	
2510-211	BFS-Sensor	sensor for B-field measurement, accessory for SCN or stand-alone with KA3/DA2		A11	690 EUR	
2510-210	BFS - B-Field Scanner Software	data acquisition & post processing (SCN Vibrometer Set required)	KA3|DA2	S47	3.740 EUR	
2510-212	Reference Magnet for B-Field Scanner	approximately B = 180 mT, +/-0.5% @ 22.5°C +/-1°C, 70 x 32 mm, manufacture calibrated		A11	740 EUR	
Power Test Modules*						
1001-200	LAA - Live Audio Analyzer (Pre-release)	long-term monitoring of 5 signals simultaneously, examine time and frequency data, heating and ageing, measure distortion with music or arbitrary stimulus	KA3	S56	5.280 EUR	
1000-710	PWT Lite - Power Test Lite	power testing with temperature measurement	DA2|PM8	S6	2.520 EUR	
1000-700	PWT Pro - Power Test Professional	power testing with temperature measurement and transducer identification	DA2|PM8	S6	7.260 EUR	
1000-711	PWT Pro Upgrade	upgrade from PWT Lite to PWT Pro	DA2|PM8	S6	4.730 EUR	
1000-401	LPM for PM8 - Linear Parameter Measurement for Power Monitor 8	LPM for intermittent testing (without laser measurement)	PM8	S2	550 EUR	
1001-101	PWT Intermittent Summary Tool Ver. 2	for summarizing results from PWT+LPM intermittent testing	DA2|PM8|Dongle2	AN29	1.650 EUR	
Post-Processing Tools*						
4000-225	STAT - Statistics	statistical overview of Klippel measurement data (1D and 2D data), pool-based visualization of measures allows quick assessment of variances and comparisons between test object groups	Dongle3	S48	1.380 EUR	✓
4000-220	MSP - Match-Speaker-Tool	find best matching pairs from a pool of speakers	Dongle2	S15	2.090 EUR	✓
1001-112	PPP - Programmable Post-Processing	user defined calculation and post-processing of measurement results in dB-Lab	KA3|DA|Dongle2|3	S53	530 EUR	
Software Add-ons*						
1001-107	SYN - External Synchronization	synchronize digital audio (e.g. Bluetooth) and trigger open-loop tests; option for QC-Task (QC-STANDARD or QC-Task required)	KA3|PA+Dongle2|3	S32	1.540 EUR	✓
4000-250	PNI - Production Noise Immunity	coping with noisy environment; option for SPL Task (QC-STANDARD or SPL Task required)	KA3|PA+Donge2|3	S21	2.530 EUR	✓
4000-251	EXD Bluetooth - External Device Bluetooth	stand-alone preset for EXD task: automated pairing and control of Bluetooth audio devices (pairing, profile control) QC STANDARD Software, Release QC6 or higher required	KA3|Dongle3	S31	550 EUR	✓
4000-241	EXD Pro - External Devices Professional	QC-Task: integration and control of external lab and test equipment (e.g. GPIB, Bluetooth radio) based on user-definable custom step sequence	Dongle2|3	S31	1.100 EUR	✓
R&D Software Updates						
1000-006	Update dB-Lab 206 to 210 (per DA2)	project management software update to current version incl. existing modules			2.090 EUR	
1000-010	Update dB-Lab 206 to 210 (per PM8)	project management software update to current version incl. existing modules			990 EUR	
1000-007	Update dB-Lab 202 to 210 (per DA2)	project management software update to current version incl. existing modules			3.190 EUR	
1000-011	Update dB-Lab 202 to 210 (per PM8)	project management software update to current version incl. existing modules			990 EUR	
1000-008	Update dB-Lab 200 to 210 (per DA2)	project management software update to current version incl. existing modules			3.520 EUR	

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1000-012	Update dB-Lab 200 to 210 (per PM8)	project management software update to current version incl. existing modules			1.080 EUR	
1000-009	Update dB-Lab 100 to 210 (per DA2)	project management software update to current version incl. existing modules			3.850 EUR	
1000-013	Update dB-Lab 100 to 210 (per PM8)	project management software update to current version incl. existing modules			1.210 EUR	
QC Software Update						
4004-101	QC Update STANDARD System (V5 to V6)	update from version 5 to version 6 New Klippel Software Protection Dongle	Dongle3		1.540 EUR	✓
4004-102	QC Update STANDARD System (V4 to V6)	update from version 4 to version 6 New Klippel Software Protection Dongle	Dongle3		2.090 EUR	✓
4004-103	QC Update STANDARD System (V3 to V6)	update from version 3 to version 6 New Klippel Software Protection Dongle	Dongle3		2.530 EUR	✓
4004-104	QC Update STANDARD System (V2 to V6)	update from version 2 to version 6 New Klippel Software Protection Dongle required.	Dongle3		2.970 EUR	✓
4004-201	QC Update BASIC System (V5 to V6)	update from version 5 to version 6 New Klippel Software Protection Dongle	Dongle3		880 EUR	✓
4004-202	QC Update BASIC System (V4 to V6)	update from version 4 to version 6 New Klippel Software Protection Dongle	Dongle3		1.210 EUR	✓
4004-203	QC Update BASIC System (V3 to V6)	update from version 3 to version 6 New Klippel Software Protection Dongle	Dongle3		1.430 EUR	✓
4004-204	QC Update BASIC System (V2 to V6)	update from version 2 to version 6 New Klippel Software Protection Dongle	Dongle3		1.540 EUR	✓
4004-010	QC Upgrade BASIC to STANDARD	upgrade QC BASIC (Vx) to QC STANDARD System (V6) New Klippel Software Protection Dongle	Dongle3		on request	✓
Service						
6001-102	KLIPPEL R&D Support Contract	1 year term, incl. software updates + email support by KLIPPEL staff (per unit)			2.420 EUR	
6001-200	KLIPPEL QC Support Contract	1 year term, incl. software updates + email support by KLIPPEL staff (per unit)			2.090 EUR	
6000-702	Manufacturer Calibration KA3 with 1 Card	KA3 calibration with manufacturer's certificate, recommended every 2 years			410 EUR	
6000-703	Manufacturer Calibration KA3 with 2 - 6 Cards	KA3 calibration with manufacturer's calibration certificate, recommended every 2 years			510 EUR	
6000-001	Manufacturer Calibration DA, PA, PM8	DA, PM8 or PA calibration with manufacturer's certificate, recommended every 2 years			530 EUR	
6000-120	Modification Speaker Card - High Power Version	modification KA3 Speaker Card to High Power Version		H8	550 EUR	
6000-130	Modification QC Card for use with external amplifier	modification KA3 QC Card for use with external amplifier		H11	160 EUR	
6000-301	Production Analyzer Modification - High Sensitivity + Calibration	both speaker channels = High Sensitivity and Manufacturer Calibration		H4	570 EUR	
6000-302	Production Analyzer Modification - Very High Sensitivity & Calibration	both speaker channels = Very High Sensitivity and Manufacturer Calibration		H4	570 EUR	
6000-309	Production Analyzer Modification 0dB Mic Input Gain	both mic input channels adjusted to 0dB gain		H4	150 EUR	

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Accessories**						
Speaker Stands						
2211-100	Pro Driver Stand	transducer fixture with laser and microphone positioning (incl. laser calibration spacer), Rev. 1.6 New Revision for speakers up to 24"		A5	3.560 EUR	
2211-003	Microspeaker Clamping	micro-speaker fixture with laser fixture and microphone positioning		A10	1.490 EUR	
2211-004	Vacuum Stand	micro-speaker fixture, used in vacuum chamber or on SCN turn table		A10	1.120 EUR	
Laser						
2103-100	Laser Set LK-H022 (all-purpose)	20mm +/-3mm, for tweeter, headphones, micro-speaker (incl. Controller LK-G5001P rev.2.0, 5m cable CB-A5)	KA3	A2	7.980 EUR	
2103-200	Laser Set LK-H052 (all-purpose)	50mm +/-10mm, for woofer, tweeter, micro-speaker (incl. Controller LK-G5001P rev.2.0, 5m cable CB-A5)	KA3	A2	7.980 EUR	
2103-210	Laser Set LK-H052 (for SCN only)	50mm +/-10mm, dedicated to SCN hardware rev.>=2.0 (incl. Controller LK-G5001P rev.2.0)	KA3 + SCN	A2	7.450 EUR	
2103-250	Laser Set LK-H052 (for Production Analyzer), Rev. 2.0	50mm +/-10mm, for LST (incl. Controller LK-G5001P rev.2.0, 2m cable CB-A2, LEMO-XLR adapter for PA connection)	PA	A2	7.870 EUR	
2103-300	Laser Set LK-H082 (all-purpose)	80mm +/-18 mm, for woofer, tweeter, compression driver (incl. Controller LK-G5001P rev.2.0, 5m cable CB-A5)	KA3	A2	7.980 EUR	
2103-421	Laser Set LK-H152 (all-purpose)	150mm +/-40mm, for long throw woofer, SPM usage (incl. Controller LK-G5001P rev. 2.0, 5m cable CB-A5)	KA3	A2	7.980 EUR	
2130-002	Power Supply Set for DA and Laser Controller LK-G5001P Rev.>=2.0	24 Vdc PSU and M8-M12 Laser supply cable for Laser Controllers rev.>=2.0 operated with DA, required for use of all-purpose laser sets with DA2	DA		260 EUR	
2300-001	Translation stage (incl. Micrometer)	incl. Micrometer, Laser Bracket Rev.108, required for laser positioning and calibration of LK-H and LK-G series		A2	750 EUR	
2102-041	Laser Set IL-030 for MPM/SPM-Lite for KA3/DA	32.5mm +/-12.5mm, for MPM + SPM-Lite only (incl. Controller IL-1000) for KA3/DA2 usage	KA3/DA	C6	1.500 EUR	
2102-044	Laser Set IL-065 for LST with KA3	80mm +/-20mm, for LST only (incl. Controller IL-1000)	KA3	C6	1.500 EUR	
2102-042	Laser Set IL-065 for LST with PA	80mm +/-20mm, for LST only (incl. Controller IL-1000, PSU, LEMO-XLR adapter for PA connection)	PA	C6	1.650 EUR	
2103-071	Laser Set HL-G108-S-J, for KA3	85mm +/-20mm, for large signal only, not for LPM and SPM, with build in Controller, incl. 4m Sensor to KA3 cable	KA3	A2	1.780 EUR	
2103-060	Laser Set HL-G112-S-J, for KA3	120mm +/-60mm, for large signal only, not for LPM and SPM, with build in Controller, incl. 4m Sensor to KA3 cable	KA3	A2	1.780 EUR	
Microphones						
2400-012	Mic 255 IEPE 1/2" Set	low noise - high sensitivity standard mic, 50 mV/Pa, max. 135 dB, prepolarized cartridge, IEPE powered pre-amp; incl. mic, case, sensitivity chart, mic clip, 5 m BNC cable		A4	1.100 EUR	
2400-501	Mic 46AE IEPE 1/2" Set	low noise - high sensitivity mic, 50 mV/Pa, max. 132 dB, prepolarized cartridge, IEPE powered pre-amp; incl. mic, case, sensitivity chart, mic clip, 5 m BNC cable		A4	1.950 EUR	
2400-502	Mic 146AE IEPE 1/2" Set	low noise - high sensitivity - rugged mic, 50 mV/Pa, max. 132 dB, prepolarized cartridge, IEPE powered pre-amp; incl. mic, 2 rugged grids, 1 standard grid, calibration adapter for rugged grid, case, sensitivity chart, mic clip, 5 m BNC cable		A4	2.220 EUR	
2400-330	Mic 40PP IEPE 1/4" Set	QC test & ambient noise mic, 50 mV/Pa, max. 129 dB, prepolarized cartridge, IEPE powered pre-amp; incl. mic, case, sensitivity chart, mic clip, 5 m BNC cable		A4	790 EUR	
2400-601	Mic 255.S 48V 1/2" Set	low noise - high sensitivity mic, 50 mV/Pa, max. 135 dB, prepolarized cartridge, Phantom powered pre-amp; incl. mic, case, sensitivity chart, mic clip, 5 m XLR cable		A4	1.620 EUR	

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Item No.	Product	Explanation	Compat. HW	Spec	Price per Unit	QC-EOL
2400-602	Mic 221 48V 1/2" Set	low noise - high sensitivity mic, 50 mV/Pa, max. 135 dB, 200 V polarized cartridge, Phantom powered pre-amp; incl. mic, case, sensitivity chart, mic clip, 5 m XLR cable		A4	2.700 EUR	
2400-603	Mic 202E IEPE 1/2" Set	higher SPL - wider bandwidth mic, 14 mV/Pa, max. 143 dB, prepolarized cartridge, IEPE powered pre-amp; incl. mic, case, sensitivity chart, mic clip, 5 m BNC cable		A4	2.040 EUR	
2400-503	Mic 46AM IEPE 1/2" Set	higher SPL - wider bandwidth mic, 14.5 mV/Pa, max. 143 dB, prepolarized cartridge, IEPE powered pre-amp; incl. mic, case, sensitivity chart, mic clip, 5 m BNC cable		A4	2.040 EUR	
2400-504	Mic 40PP-S1 IEPE 1/4" Set	QC testing - higher SPL mic, 10 mV/Pa, max. 142 dB, prepolarized cartridge, IEPE powered pre-amp; incl. mic, case, sensitivity chart, mic clip, 5 m BNC cable		A4	770 EUR	
2400-604	Mic 202E.S 48V 1/2" Set	higher SPL - wider bandwidth mic, 14 mV/Pa, max. 143 dB, prepolarized cartridge, Phantom powered pre-amp; incl. mic, case, sensitivity chart, mic clip, 5 m XLR cable		A4	2.840 EUR	
2400-605	Mic 202 48V 1/2" Set	higher SPL - wider bandwidth mic, 14 mV/Pa, max. 143 dB, 200 V polarized cartridge, Phantom powered pre-amp; incl. mic, case, sensitivity chart, mic clip, 5 m XLR cable		A4	2.710 EUR	
2400-608	Mic 301E IEPE 1/4" Set	max. SPL - max. bandwidth mic, 3.2 mV/Pa, max. 155 dB, prepolarized cartridge, IEPE powered pre-amp; incl. mic, case, sensitivity chart, mic clip, 5 m BNC to Microdot cable		A4	2.110 EUR	
2400-507	Mic 46BE IEPE 1/4" Set	max. SPL - max. bandwidth mic, 4 mV/Pa, max. 154 dB, prepolarized cartridge, IEPE powered pre-amp; incl. mic, case, sensitivity chart, mic clip, 5m BNC to Microdot cable		A4	2.360 EUR	
2400-606	Mic 301E.S 48V 1/4" Set	max. SPL - max. bandwidth mic, 3.2 mV/Pa, max. 155 dB, prepolarized cartridge, Phantom powered pre-amp; incl. mic, case, sensitivity chart, mic clip, 5 m XLR cable		A4	3.140 EUR	
2300-102	Adapter; XLR male - BNC female	XLR male to BNC female socket adapter (from BNC output to XLR input), needed for IEPE supplied mics used at Phantom powered inputs			27 EUR	
2400-052	Mic Supply Unit; IEPE type, GRAS 12AL set	1-channel, BNC I/Os, battery or 4-6 Vdc powered, switchable A-weighting filter, incl.1 m BNC cable, BNC-XLR adapter, PSU		A4	860 EUR	
2400-301	Mic Supply Unit; IEPE type, IV11-S set	1-channel, BNC I/Os, 5 Vdc powered, switchable gain = 0/10 dB, incl. 1 m BNC cable, BNC-XLR adapter, PSU		A4	790 EUR	
2400-023	Mic Calibrator; GRAS 42AG Multifunction Sound Calibrator, Class 1, Set	Sound Pressure Calibrator for 1", 1/2", 1/4" mics, 94 or 114 dB at 250 Hz or 1 kHz, AAA battery supply, case, calibration certificate; Additional adapter 2400-024 required for Mic Sets MI17/MI17HL and MI18/MI18HL!		A4	1.740 EUR	
2400-024	Mic Calibrator Adapter 1/4" for GRAS 42AG	Supplement item for GRAS 42AG Multifunction Sound Calibrator, Class 1 Adapter for MI17/MIHL and MI18/MI8HL		A4	170 EUR	
Amplifier						
2700-001	Power Amplifier; QSC PLX 1802	2x 900/575/330 W @ 2/4/8 ohm, 1x 1800/1200 W @ 2/4 ohm			1.430 EUR	
2700-002	Power Amplifier; QSC PLX 2502	2x 1250/750/450 W @ 2/4/8 ohm, 1x 2500/1500 W @ 2/4 ohm			1.540 EUR	
2700-003	Power Amplifier; QSC PLX 3602	2x 1800/1250/775 W @ 2/4/8 ohm, 1x 3600/2600 W @ 2/4 ohm			1.980 EUR	
2700-014	Power Amplifier; QSC PL380	2x 4000/2500/1500 W @ 2/4/8 ohm, 1x 8000/5000 W @ 2/4 ohm			3.520 EUR	
2700-008	Power Amplifier; QSC GX 3 (230V)	2x 425/300 W @ 4/8 ohm, (only available as 230 V version, not for US)			550 EUR	
2700-009	Power Amplifier; QSC GX 5 (230V)	2x 700/500 W @ 4/8 ohm, (only available as 230 V version, not for US)			620 EUR	
2700-010	Power Amplifier; QSC GX 7	2x 1000/725 W @ 4/8 ohm			990 EUR	

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Vacuum						
2600-010	Vacuum Measurement Kit, incl. default vacuum pump	recommended for testing micro-speakers and compression drivers; incl. vacuum chamber with glass plate, vacuum pump (delivery 16l/min at atm pressure, 15mbar abs.), vacuum tube, air filter, inner and outer cables		A7	3.280 EUR	
2600-015	Vacuum Measurement Kit, incl. extended vacuum pump	recommended for testing micro-speakers and compression drivers; incl. vacuum chamber with glass plate, vacuum pump (delivery 32l/min at atm pressure, 12mbar abs.), vacuum tube, air filter, inner and outer cables		A7	3.550 EUR	
Multiplexer						
2800-101	Multiplexer BNC	MUX81-42 BNC (Mic version)		A8	1.610 EUR	
2800-102	Multiplexer XLR-IN	MUX81-42-XLR-IN (LINE-IN version, 8 x 1 or 4 x 2)		A8	1.490 EUR	
2800-103	Multiplexer XLR-OUT	MUX81-42-XLR-OUT (LINE-OUT version, 1 x 8 or 2 x 4)		A8	1.490 EUR	
2800-104	Multiplexer Speakon	MUX81-42-SPEAKON (Speaker version)		A8	1.980 EUR	
Simulators						
2400-073	GRAS 44AA Mouth Simulator, according to ITU-T Rec. P51 Set	with built-in power-amplifier, incl. CCITT P51 jig, IEEE 269 jig, 24 Vdc power supply, 5 m BNC cable, XLR-BNC adapter		A14	3.300 EUR	
2400-077	GRAS 44AB Mouth Simulator, according to ITU-T Rec. P51 Set	without built-in power-amplifier, incl. CCITT P51 jig, IEEE 269 jig		A14	2.750 EUR	
2400-079	GRAS 45CC-2 Headphone Test Fixture	Two channel (Stereo) Test Fixture for On-Ear (supra-aural) and Over-Ear (circum-aural) Headphones		A14	6.240 EUR	
2400-080	GRAS 45CC-6 Headset Test Fixture Set	Two channel (Stereo) Test Fixture for On-Ear (supra-aural) and Over-Ear (circum-aural) Headsets		A14	9.170 EUR	
2400-095	GRAS 43AC-S5 High Frequency Ear Simulator Kit according to IEC 60318-4	Single channel (Mono) Ear Simulator Kit for In-Ear Headphones		A14	4.910 EUR	
2400-075	GRAS 43AA-S2 Ear Simulator Kit according to IEC 60318-1 & -2	Single channel (Mono) Ear Simulator Kit for On-Ear (supra-aural) and Over-Ear (circum-aural) Headphones		A14	4.990 EUR	
2400-076	GRAS 43AE-S1 Ear Simulator according to ITU-T Rec. P57 Type 3.2	Single channel (Mono) Ear Simulator Kit for On-Ear (supra-aural) Headphones		A14	5.030 EUR	
2400-078	GRAS 45CA-4 Ear Simulator Kit according to IEC 60318-1	Two channel (Stereo) Ear Simulator for On-Ear (supra-aural) and Over-Ear (circum-aural) Headphones		A14	13.550 EUR	
2400-081	GRAS 45CC-4 Ear Simulator Kit according to IEC 60318-1	Two channel (Stereo) Ear Simulator for On-Ear (supra-aural) and Over-Ear (circum-aural) Headphones		A14	9.470 EUR	
2400-082	GRAS 45CC-8 Ear & Mouth Simulator Kit according to IEC 60318-1 Set	Two channel (Stereo) Ear Simulator for On-Ear (supra-aural) and Over-Ear (circum-aural) Headsets incl. mouth simulator		A14	12.600 EUR	
2400-064	GRAS 43AG-7 High Frequency Ear & Cheek Simulator Kit with Pinna acc. to IEC 60711-4 & -7	Single channel (Mono) High Frequency Ear & Cheek Simulator Kit for earphones of various types (1x Large Right Ear incl.)		A14	6.540 EUR	
2400-094	GRAS 45CA-10 HF Ear & Cheek Simulator Kit with Pinna acc. to IEC 60318-4	Two channel (Stereo) Ear & Cheek Simulator Kit for earphones of various types up to 20kHz		A14	15.390 EUR	
2400-093	GRAS 45BB-14 KEMAR with Anthropometric Pinna for HF Ear- and Headphone Test	Two channel (Stereo) Head- & Torso Simulator Kit for earphones of various types with frequency range up to 20kHz		A14	26.230 EUR	

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2400-092	GRAS 45BC-14 KEMAR with Mouth Simulator, Anthropometric Pinna for HF Headset Test, Set	Two channel (Stereo) Head- & Torso Simulator Kit with Mouth Simulator for high frequnecy headset of various types		A14	31.770 EUR	
Various Accessories						
2800-005	Manual Sweep Controller	intuitive control of frequency and level for the manual sweep		A6	280 EUR	
2800-004	Bar Code Scanner	quick data entry via Barcode/QR-Code		A6	330 EUR	
2800-011	Temperature + Humidity Sensor (dB-Lab 210.xxx or QC6 required)	automatic recording of temperature + humidity	KA3|PA+Dongle3	A6	420 EUR	
2800-407	MegaSig U980 Bluetooth® Converter Set	Professional, analog Bluetooth converter with USB control incl. cable set and software interface to Klippel R&D and QC Software		A6	1.910 EUR	
2800-405	Interface; USB - Bluetooth® Radio, Laird BT820	Bluetooth radio USB dongle recommended for QC software framework applications – supports automated pairing and profile control via Windows Bluetooth radio		A6	on request	
2800-500	Genelec 8010A (Compact, Active Two-way Speaker)	Compact, analog sound source with balanced XLR input (96 dB, 74 Hz – 20 kHz) for EoL testing of microphones, headsets, voice controlled devices…		A15	on request	
2800-501	Genelec 8330A SAM (Active Two-way Speaker)	DSP controlled sound source with balanced XLR input (104 dB, 58 Hz – 20 kHz) for testing microphones, headsets, voice controlled devices…		A15	on request	
2800-502	Genelec 8331A SAM (Active Three-way Speaker)	DSP controlled coaxial point source with balanced XLR input (104 dB, 58 Hz – 20 kHz); reference sound source for testing microphones, headsets, voice controlled devices…		A15	on request	
2800-510	GLM™ Genelec Loudspeaker Manager User Kit	Accessory for Genelec SAM speakers: GLM network adaptor and microphone for frequency response calibration and control		A15	on request	
2800-511	VESA Adapter for Genelec Speakers	Accessory for Genelec speakers: VESA mounting adapter plate (75/100 mm)		A15	on request	
2800-400	Converter; USB - GPIB, Prologix	GPIB-Controller for USB, required for External Devices Module		S31	330 EUR	

* Module price per 1 license, running on 1 hardware unit or 1 USB dongle.
The column "Compat.HW" informs about the device type to which the module can be licenced.

** Prices for accessories from other suppliers (microphones, lasers, amplifiers, simulators) are valid only in combination with KLIPPEL Analyzer System.
Also available on request:
- Various types of microphones from Microtech Gefell and G.R.A.S.
- Several cables

This document is subject to change without notice. Errors and omissions excepted.