KLIPPEL System Example Sets for Headphone Quality Control

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

Errors and omissions excepted.

Effective from July 01, 2025. Currency: EURO. All prices net, EXW (tax, duty, transportation, support extra).

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Set for Passive Headphone			
Hardware	Klippel Analyzer 3 (ALSX) - including internal amplifier (Adapter; XLR male - BNC female is part of the RnD System cable set)	8.760	€
Software	QC STANDARD Software	4.480	€
Test fixture	**For headphone**:		
	GRAS 45CC-2 Headphone Test Fixture	8.520	€
	alternatively		
	For headphone (to provide standardized acoustical load conditions):		
	GRAS 45CC-2 Headphone Test Fixture	8.520	€
	2x GRAS RA0039 Ear Simulator according to IEC 60318-1	4.660	€
	alternatively		
	For earphone and headphone		
	GRAS 45CC-17 GRAS 45CC-17 Headphone Test Fixture with Ear & Cheek Simulator and Pinna, HF	14.510	€
Accessory	Cable Set; Passive Headphone Connection Kit (Cable Set for connecting passive mono or stereo headphones to KA3 measurement devices. KA3 Amp-Card and Speaker-Card required. Incl. 6.3mm TRS male to 3.5mm TRS female adapter, speakON male to speakON male adapter CH1 to CH1&2, 2x speakON female to 6.3mm TRS female adapter cable 0.6m, speakON female to speakON female cable 0.5m)	380	€
optional SW add-on	PNI - Production Noise Immunity	3.120	€
optional QC task	EQA - Equalization + Alignment Standard	910	€
optional Accessory	Ambient noise monitoring microphone (Mic 40PP-10 IEPE Set)	1.080	€

Set for Digital Headset (USB/Lightning)			
Hardware	Klippel Analyzer 3 (LX) (Adapter; XLR male - BNC female is part of the KA3 LX cable set)	6.280	€
Software	QC STANDARD Software	4.480	€
Software add-on	SYN - External Synchronization (synchronize digital audio)	1.890	€
Test fixture	**For in-ear headphone**:		
	2 x GRAS 43AC-S5 Ear Simulator Kit according to IEC 60318-4	13.220	€
	GRAS 44AA Mouth Simulator, according to ITU-T Rec. P51 Set	4.130	€
	alternatively		
	For headphone:		€
	GRAS 45CC-2 Headset Test Fixture Set	8.520	€
	GRAS 44AA Mouth Simulator, according to ITU-T Rec. P51 Set	4.130	€
	alternatively		
	For earphone and headphone		
	GRAS 45CC-17 GRAS 45CC-17 Headphone Test Fixture with Ear & Cheek Simulator and Pinna, HF	14.510	€
	GRAS 44AA Mouth Simulator, according to ITU-T Rec. P51 Set	4.130	€
optional SW add-on	EXD Bluetooth - for assisting Bluetooth pairing	670	€
	PNI - Production Noise Immunity	3.120	€
optional QC-Task	EQA - Equalization + Alignment Standard	910	€
optional Accessory	Ambient noise monitoring microphone (Mic 40PP-10 IEPE Set)	1.080	€
	USB to Lightning adaptor (3rd party, e.g. Anker USB-A to Lightning Audio Adaptor)	buy locally	

Set for Bluetooth Headphone with Mic & ANC Test

Hardware	Klippel Analyzer 3 (LX) (Adapter; XLR male - BNC female is part of the KA3 LX cable set)	6.280	€
Software	QC STANDARD Software	4.480	€
Test fixture	**For earphone**: 2 x GRAS 43AC-S5 Ear Simulator Kit according to IEC 60318-4	13.220	€
	For headphone: GRAS 45CC-2 Headphone Test Fixture	8.520	€
	For earphone and headphone: GRAS 45CC-17 Headphone Test Fixture with Ear & Cheek Simulator and Pinna, HF	14.510	€
Software add-on	SYN - External Synchronization (synchronize digital audio)	1.890	€
Bluetooth Interface	MegaSig U980 Bluetooth® Converter Set includes EXD Bluetooth - External Devices (Bluetooth pairing and profile control)	2.150	€
Sound source	2 x Genelec 8010A (Compact, Active Two-way Speaker)	on request	€
	optional: 2 x VESA Adapter for Genelec Speakers	on request	€
Accessory	Measurement Microphone (Mic 40PP-10 IEPE 1/4" Set)	1.080	€
optional QC-Task	EQA - Equalization + Alignment Standard	910	€
	PNI - Production Noise Immunity	3.120	€
optional Accessory	Multiplexer XLR-OUT	2.190	€
	Y-adaptors can be used alternativey to Mutiplexer XLR-OUT		

Recommendation - pool-based test data statistics & statistical limit setting

Software add-on	STAT - Statistics	1.700	€

Recommendation - software tool for matching optimal transducer pairs before assembly

Software add-on	MSP - Match-Speaker-Tool	2.570	€

Basic acoustical test of passive headphones using sound card

Software	QC Stand-alone software (QC7 or higher)	2.480	€
	SPL - Sound pressure based acoustic testing	1.890	€
	SYN - External Synchronization (synchronize digital audio)	1.890	€
Test fixture	**For headphone**: GRAS 45CC-2 Headphone Test Fixture	8.520	€
Accessory	External Sound Card BNC-XLR adaptor Adapter; 6,35mm TRS jack male - 3,5mm TRS jack female, for headphones	buy locally	