

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.

Effective from April 04, 2023. Currency: EURO. All prices net, EXW (tax, duty, transportation, support extra). Klippel GmbH, Germany, Tel.: +49-351-501 939 0, Fax.: +49-351-501 939 10, E-Mail: info@klippel.de, Web: www.klippel.de

Set for Passive He	eadphone		
Hardware	Klippel Analyzer 3 (ALSX) - including internal amplifier (Adapter; XLR male - BNC female is part of the RnD System cable set)	8.560	€
Software	QC STANDARD Software	3.990	€
	For headphone:		
	GRAS 45CC-2 Headphone Test Fixture	7.760	€
	alternatively		
Test fixture	<u>For headphone</u> (to provide standardized acoustical load conditions):		
	GRAS 45CC-2 Headphone Test Fixture	7.760	€
	2x GRAS RA0039 Ear Simulator according to IEC 60318-1	4.180	€
	alternatively		
	For earphone and headphone		
	GRAS 45CC-17 GRAS 45CC-17 Headphone Test Fixture with Ear & Cheek Simulator and Pinna, HF	13.460	€
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)	300	€
optional SW add-on	PNI - Production Noise Immunity	2.780	€
optional QC task	EQA - Equalization + Alignment Standard	810	€
optional Accessory	Ambient noise monitoring microphone (Mic 40PP-10 IEPE Set)	980	€

Set for Digital He	adset (USB/Lightning)		
Hardware	Klippel Analyzer 3 (LX) (Adapter; XLR male - BNC female is part of the KA3 LX cable set)	6.190	€
Software	QC STANDARD Software	3.990	€
Software add-on	SYN - External Synchronization (synchronize digital audio)	1.690	€
	For in-ear headphone:		
	2 x GRAS 43AC-S5 Ear Simulator Kit according to IEC 60318-4	12.020	€
	GRAS 44AA Mouth Simulator, according to ITU-T Rec. P51 Set	3.780	€
Test fixture	alternatively		
	For headphone:		€
	GRAS 45CC-2 Headset Test Fixture Set	7.760	€
	GRAS 44AA Mouth Simulator, according to ITU-T Rec. P51 Set	3.780	€
	alternatively		
	For earphone and headphone		
	GRAS 45CC-17 GRAS 45CC-17 Headphone Test Fixture with Ear & Cheek Simulator and Pinna, HF	13.460	€
	GRAS 44AA Mouth Simulator, according to ITU-T Rec. P51 Set	3.780	€
optional SW add-on	EXD Bluetooth - for assisting Bluetooth pairing	600	€
	PNI - Production Noise Immunity	2.780	€
optional QC-Task	EQA - Equalization + Alignment Standard	810	€
optional Accessory	Ambient noise monitoring microphone (Mic 40PP-10 IEPE Set)	980	€
	USB to Lightning adaptor (3rd party, e.g. Anker USB-A to Lightning Audio Adaptor)	buy local	



et 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)	6.190	1
Software	QC STANDARD Software	3.990	
	For earphone:		
Test fixture	2 x GRAS 43AC-S5 Ear Simulator Kit according to IEC 60318-4	12.020	
	For headphone:		Π
	GRAS 45CC-2 Headphone Test Fixture	7.760	
	For earphone and headphone:		Ī
	GRAS 45CC-17 GRAS 45CC-17 Headphone Test Fixture with Ear & Cheek Simulator and Pinna, HF	13.460	
Software add-on	SYN - External Synchronization (synchronize digital audio)	1.690	
Bluetooth Interface	MegaSig U980 Bluetooth® Converter Set includes EXD Bluetooth - External Devices (Bluetooth pairing and profile control)	1.910	
Sound source	2 x Genelec 8010A (Compact, Active Two-way Speaker)	860	
	optional: 2 x VESA Adapter for Genelec Speakers	320	
Accessory	Measurement Microphone (Mic 40PP-10 IEPE 1/4" Set)	980	
antional OC Task	EQA - Equalization + Alignment Standard	810	
optional QC-Task	PNI - Production Noise Immunity	2.780	
antional Assassans	Multiplexer XLR-OUT	1.950	
optional Accessory	y-adaptors can be used alternativey to Mutiplexer XLR-OUT		

Recommendation	n - pool-based test data statistics & statistical limit setting		
Software add-on	STAT - Statistics	1.510	€

Recommendation	- software tool for matching optimal transducer pairs before assembly		
Software add-on	MSP - Match-Speaker-Tool	2.290	€

Basic acoustical test of passive headphones using sound card			
	QC Stand-alone software (QC7 or higher)	2.200	€
Software	SPL - Sound pressure based acoustic testing	1.690	€
	SYN - External Synchronization (synchronize digital audio)	1.690	€
Test fixture	For headphone:		
	GRAS 45CC-2 Headphone Test Fixture	7.760	€
Accessory	External Sound Card BNC-XLR adaptor Adapter; 6,35mm TRS jack male - 3,5mm TRS jack female, for headphones	buy locally	