

# BIAS<sup>7</sup> PRICE LIST 2022\*

Single Components		HARD- UND SOFTWARE PACKAGES							
DESCRIPTION	Price	Basic Edition Brasses or Woodwinds	Basic Edition Brasses and Woodwinds	Extended Edition Brass or Woods	Extended Edition Brass- and Woods	Professional Edition <sup>1)</sup>	Enterprise Edition <sup>1)</sup>	VIAS for Stringed Instruments PCB-System	VIAS for Stringed Instruments LC-System
HARDWARE	BIAS USB-Measurement Head	2 950,00	●	●	●	●	●		
	PCB-System: Impacthammer + USB- Charge Amplifier + Accelerometer	4 692,00						●	
	LC-System: Impacthammer + USB- Voltage Amplifier + Accelerometer	2 300,00							●
SOFTWARE	Basic Software Package	2 100,00	●	●	●	●	●		
	Extension Package for Woodwinds	650,00		●		●	●		
	Physical Modeling Modul	900,00			●	●	●		
	Optimizer Software Package (BIOS)	2 200,00				●	●		
	Research&Science Software (VIAS)	1 900,00					●	●	●
1 Day Introduction and Training	500,00	●	●	●	●	●	●	●	
<b>Package Price in €</b>		<b>4 990,00</b>	<b>5 590,00</b>	<b>5 740,00</b>	<b>5 990,00</b>	<b>6 990,00</b>	<b>7 990,00</b>	<b>7 092,00</b>	<b>4 700,00</b>
<b>Discount in €</b>		<b>560,00</b>	<b>610,00</b>	<b>710,00</b>	<b>910,00</b>	<b>2 310,00</b>	<b>3 210,00</b>		
<b>Discount in %</b>		<b>-10,09%</b>	<b>-9,84%</b>	<b>-11,00%</b>	<b>-13,18%</b>	<b>-24,83%</b>	<b>-28,66%</b>		

\* The price does not include the tax and shipping costs

1) Shipping free of charge

**BIAS Basic Software:** Multiuser system with password management, network compatible, Microsoft Access Database with adress database. Diagnosis-Software: Impedance curve objective or weighted (=Norm-Musician), Mean values of any number of instruments, Zoom function, Statistik function, Intonation analysis and display (sounding or written), free selectable reference frequency, display of the phase, group delay, etc., acoustic length, disturbance analysis, response factor, direct export of the diagrams to e.g. Microsoft Word, export of the impedance and intonation data into e.g. Microsoft Excel via CSV-data format, Musical Calculator.

**Physical Modeling Modul:** After the input of the sizes of an instrument or a single part of it as a "bore list" (X value, Y value = cross section at this position) the software calculates the impedance and the intonation of this "virtual" instrument. Useful to forecast the results of any changes in the bore. Selectable damping factor for simulation of losses. Takes the room temperature and wall vibration into account. Can simulate different material properties.

**Optimierer Software Paket:** Sophisticated and voluminous, interactive software package. Setup of various components which can be combined to instruments, Intonation optimising, Response optimising, Matching function, bell section design tool, sleeve tools, smoothing tools, simulation of mechanical processing steps, various filters, calculation and display of the antinode allocation for each note, etc.

**Research & Science Paket VIAS:** Applicable for extended BIAS measurements and for admittance (vibration) measurements with pulse hammer and accelerometers. Free selectable excitation: any soundfile, discrete sinus wave, sinus sweep of any duration, logarithmic or linear sweep from 0 Hz - 20.000 Hz, free selectable start and stop frequency, excitation and recording level control, Realtime time display of the excitation and input signal, repair function in case of measuring errors. Calculation and display of real and imaginary parts, phase, coherence and cross spectra. Smoothing functions, frequency trim functions, resampling, various filtering options, multiple cursor functions, virtual sound with selectable partials, Sound analysis with RMS and Harmonic Centroid, spectrogram with selctable color range, data export directly into the BIAS 7 database, in CSV or BIAS format.

**VIAS for stringed instruments:** Two different hardware devices are available: the PCB-System consists of devices produced for commercial lab equipment and a LC-System, especially produced for the application with stringed instruments. This application does not require a calibration and official verification therefore we can offer a more favorable price.

**BIAS for Woodwinds:** is a special data base module integrated in BIAS for measuring woodwind instruments. Optionally required adapters for flutes, clarinets, oboes and bassoons can be produced by yourself - based on our specifications or purchased from the ARTIM GmbH. .