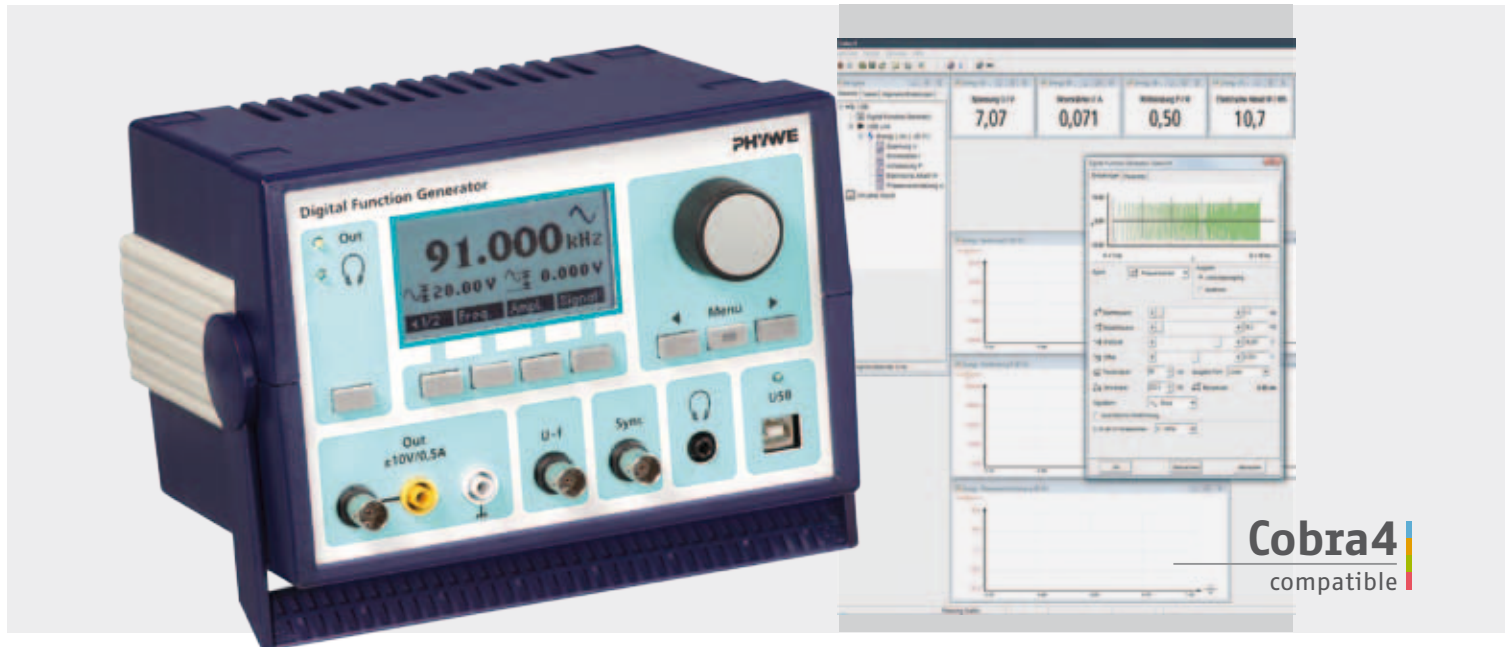


Digital function generator – universal and intuitive


Cobra4
 compatible

Universal signal generator for a wide range of applications – easy to use

The provision of the most important signals (sine, triangle, and square) and signal ramps (voltage and frequency) up to 1 MHz and an amplification of up to 1 A make the device the ideal companion for experiments with all types of oscillators, loudspeakers, and ultrasonic generators as well as for the analysis of circuits or – if the headphone output is used – for experiments concerning the sense of hearing.

One of the special features of this device is its easy and intuitive operation via function keys and a rotary control knob. The display continuously shows the most important settings such as the waveform, frequency, amplitude, offset, ramp time, and the current frequency/amplitude.

The device can either be used as a stand-alone unit or it can be controlled via a computer with the aid of the supplied “measure Cobra4” software. As a result, it can be integrated in numerous additional experiments with the wireless measurement data recording system Cobra4.

Features

Universal, programmable voltage source with a bandwidth of 1 MHz and an output current of 1 A

Can be used as a stand-alone device or it can be controlled via a PC

Intuitive operation via function keys and a rotary control knob

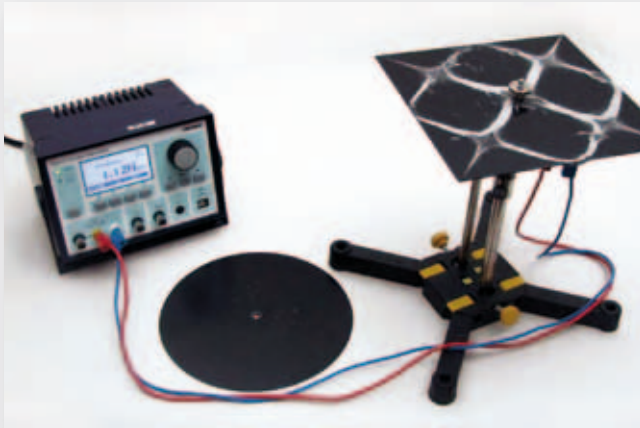
Illuminated display for optimum visibility

Low distortion factor and high signal-to-noise ratio for brilliant signals – ideal for experiments concerning acoustics/hearing

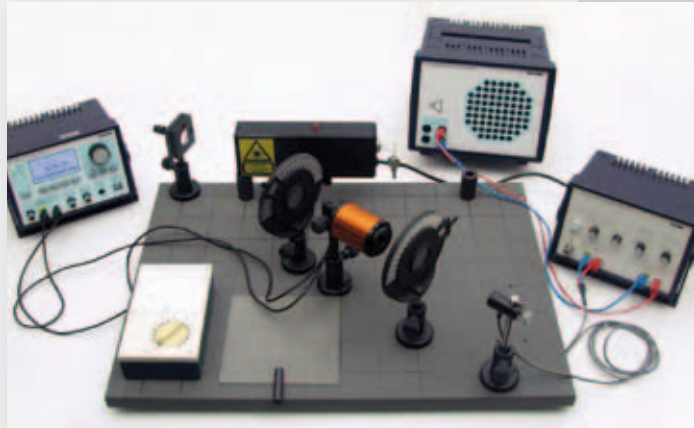
U = U(f) output for a particularly easy pick-up of the frequency – ideal for analysing circuits with frequency ramps using an oscilloscope

Technical Data

Potential areas of application of the digital function generator (more than 10 described experiments are available):



Chladni's figures P2150702



Faraday effect P2260106

Frequency range:	0,1 Hz ... 1 MHz, distortion factor <0.5%
Waveforms:	Sine, triangle, square, voltage ramp, frequency ramp (with sweep function)
Amplifier output:	0 ... 20 V _{pp} , offset ± 10V, power 5 W (up to 1A)
Headphone output:	Switchable, 0 ... 2 V _{pp} at R _a = 400 Ω
Other outputs:	Trigger output (50 Ω, 5 V), U=U(f) (0 ... 4 V)
Monochrome, illuminated display:	128 x 64 pixels
Computer interface:	USB 2.0
Operation:	Menu-guided operation via buttons and a rotary control knob or via the "measure Cobra4" software package
Power supply:	100 V ~ to 240 V ~ at 50/60 Hz
Shock-resistant plastic housing with carrying handle:	Dimensions (mm): 194 x 140 x 130
Including the "measure Cobra4" software	

Cobra4
compatible

Products

Digital function generator, USB

Digital signal generator for use as a programmable voltage source for laboratory and demonstration experiments in acoustics and electricity/electronics

Digital function generator, USB

13654-99

PHYWE Systeme GmbH & Co. KG
Robert-Bosch-Breite 10
D-37079 Göttingen/Germany

P. +49 (0) 551 604 - 0
F. +49 (0) 551 604 - 107
info@phywe.com
www.phywe.com