

R&S® HMF25xx Arbitrary Function Generator

Accurate, versatile and affordable



The perfect choice for

Engineering lab

Maintenance & repair

Education

General purpose

Key features

- Two versions: R&S®HMF2525 with 25 MHz and R&S®HMF2550 with 50 MHz maximum frequency
- 14-bit resolution and 8 ns rise time
- As well as standard waveforms such as sine, rectangle and triangle, the instruments provide powerful arbitrary signal functionality. In addition to predefined signal shapes such as $\sin(x)/x$, white or pink noise, it can also output customer-specific, arbitrary curve shapes with a signal length of up to 256 ksamples.
- The burst, sweep, gating, internal and external triggering operating modes and the AM, FM, PM, PWM and FSK modulation functions (in each case internal and external) can be applied on all signals

Key specifications

Frequency range	
R&S®HMF2525	10 μ Hz to 25 MHz
R&S®HMF2550	10 μ Hz to 50 MHz
Output voltage	
	5 mV _{pp} to 10 V _{pp} (into 50 Ω)
	10 mV _{pp} to 20 V _{pp} (open circuit)
Total harmonic distortion	0.04 % typ. (f < 100 kHz)
DC offset	± 5 mV to 5 V
Arbitrary waveform length	up to 256 ksamples
Arbitrary waveform resolution	14 bit

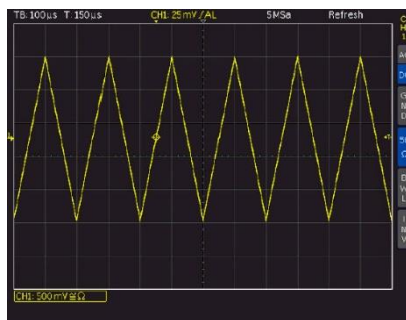
Your benefit

Features

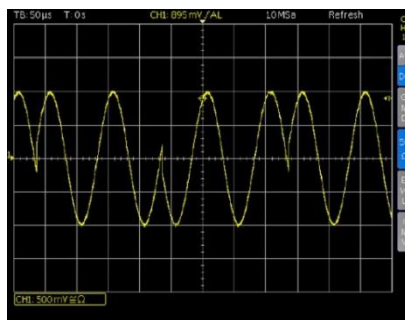
Powerful pulse generator	Provides pulses with a recurrence rate of up to 12.5 MHz/25 MHz; the pulse width can be set from 15 ns to 999 s with a resolution of 5 ns. Rise/fall time can be selected from 8 ns to 500 ns – a very useful feature when characterizing input hysteresis of semiconductor devices
Easily create arbitrary waveforms	Arbitrary waveforms can be developed with PC software. Stored waveforms can be loaded via front USB port or imported via the complimentary HMExplorer software (available for download)

► For more information,
see www.rohde-schwarz.com/product/HMF

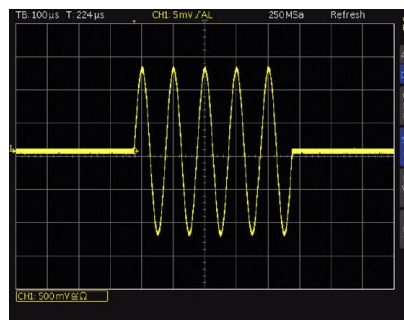
Signal examples



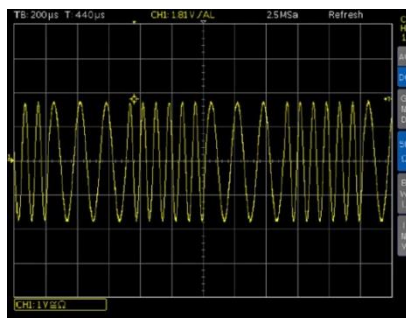
Triangle signal.



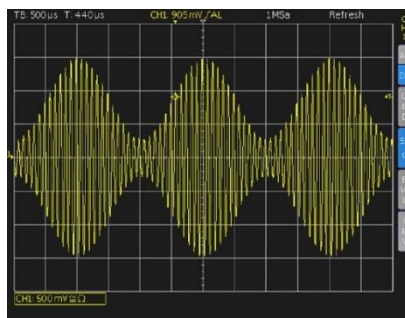
Phase modulation (PM).



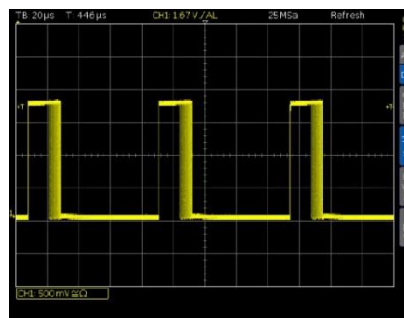
Burst example.



Frequency shift keying (FSK).



Amplitude modulation (AM).



Pulse width modulation (PWM).

Ordering information

Base units

Frequency Range	Model
10 µHz to 25 MHz	R&S®HMF2525
10 µHz to 50 MHz	R&S®HMF2550

Options/system components

Description	Type
Dual Ethernet/USB interface	R&S®H0732
IEEE-488 (GPIB) interface	R&S®H0740
19" rackmount kit, 2 HU	R&S®HZ42

Included accessories:

All models include operating manual, power cable and three-year warranty.

Rohde & Schwarz Representative