

Manual RF Signal-Generator

Please read the following manual carefully before using your Aaronia RF Signal Generator. This manual contains important information on how to properly operate this device.





Aaronia AG www.aaronia.de

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1. Introduction

Dear customer,

By purchasing this Signal Generator you acquired a professional RF-Generator, which allows to generate RF/Microwave Signals up to 4,4GHz (BSPG 4 and BPSG 4 OEM) or up to 6GHz (BPSG 6 and BPSG 6 OEM).

This product fulfills the requirements of the applicable European and national guidelines.

1.1. Liability

This document was compiled with great care and checked for accuracy.

But nevertheless mistakes cannot be excluded. We do not take over any liability. We cannot guarantee the completeness, the correctness and the accuracy of information.

We reserve ourselves the right to change our products, specifications and documentations without any notice. We have no obligation for revision of documents and manuals we delivered in the past.

1.2. Warranty

Despite the greatest care in development and production of this device and the included software; Aaronia AG takes only liabilities for certain purposes, if this has been assured in writing. No warranty can be assumed for the performance and flawlessness of the software for all usage conditions and cases and for the results produced when utilized by the user. No additional guarantees or assurances are made regarding marketability, freedom of defect of title, integration or usability for certain purposes unless they are required in accordance with the law and cannot be limited. Justified guarantee claims are limited to the right of require rectification or replacement delivery. Regarding infringements, violations of patents, rights of ownership or the freedom from interference by third parties, Aaronia AG cannot warrant or guarantee that it is free of error.



1.3. Safety Guidelines

In the event of any damages resulting from failure to follow these operating instructions the claim under guarantee is discharged. We accept no liability for consequential damages. In the event of property and personal damages resulting from improper handling or failure to follow safety advice, Aaronia AG accepts no liability.

For reasons of safety and admissibility (CE) the unauthorized conversion and/or alteration of the product is not permitted.

As voltage source please only use a proper mains socket (100-240Volt, 50/60Hz). Make sure that the cable isn't squeezed or damage by sharp edges.

In order to avoid any damage, please read this user manual carefully before starting to use the device.

The commissioning should only be performed by qualified and instructed personnel.

Never expose the device to water. Never use it outdoors while it is raining. Otherwise the sensitive electronics could be damaged.

Avoid to high temperatures. Do not leave the device on a heating, in direct sunlight or in your car.

Only clean it externally with a damp cloth.

This device is sensitive to shock. So never drop the device and for safekeeping and transport please use the carrycase.

Even though the device is well secured through the use of counter-sunk screws, it should still not be reachable by children as it could easily be diverted from its intended use.

This devices that is connected with mains voltage and derived voltages, is not meant for the hands of children.

Consider the regulations for prevention of industrial accidents for electrical installations and equipment, by government safety organization in industrial facilities.

In schools, educational establishments, hobby and self-help workshops the operation of this product must be supervised by trained personnel.

WARNING

Please note the applicable legislation and restrictions to use and own this signal generator!

We are not liable for any damages, directly or indirectly, resulting from the use of the field generator.

Please also take care not to damage any test equipment connected to the Signal Generator, as the output power of up to +18dBm may damage the input of connected Spectrum Analyzers, Oscilloscopes, etc.

The improper or illegal use of the signal generator is strictly prohibited! With the purchase of this equipment you automatically accept these conditions.

RF Signal-Generator

1.4. Scope of delivery

BPSG 4 and BPSG 6



BPSG 4 OEM and BPGS 6 OEM



Generator Adapter plates (blue) with screws (OEM versions only) Transport Case International Power supply USB Cable SMA Tool SMA Adapter (f/f) (non-OEM versions only) Accessories (optional) SMA Cable (1,5 or 10m) 17600mAh Powerbank SMA to N Adapter 12V Car Power Adapter 20dB Attenuator

Please check the package contents for completeness before first operation. Report missing parts immediately to Aaronia or to your Aaronia dealer.

2. Technical data

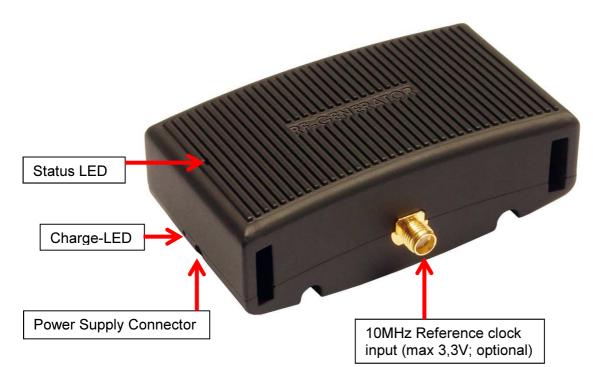
	BPSG 4	BPSG 6	BPSG 4 OEM	BPSG 6 OEM
Design	Portable Signal Generator	Portable Signal Generator	OEM Signal Generator	OEM Signal Generator
Frequency range	35MHz to 4,4GHz	23,5MHz to 6GHz	35MHz to 4,4GHz	23,5MHz to 6GHz
Accuracy:	min. +/-1dB, typ. +/-0,5dB	min. +/-1dB, typ. +/-0,5dB	min. +/-1dB, typ. +/-0,5dB	min. +/-1dB, typ. +/-0,5dB
Connector	SMA	SMA	SMA	SMA
Max Output Level	+17dBm	+18dBm	+17dBm	+18dBm
Min Output Level	-48dBm	-45dBm	-48dBm	-45dBm
Modulations	AM / FM / PM			
Interface	USB 2.0 / 1.1			
Battery Operation	Lin to 4 hours	Lin to 4 hours	Lin to 4 hours	
Warrantv*:	Up to 4 hours 10 years			
warranty :		TO years	TO years	To years
Weight:	150gr	150gr	150gr	150gr
Dimensions				
Length:	81mm	81mm	81mm	81mm
Width:	61mm	61mm	61mm	61mm
Height:	29mm	29mm	25mm	25mm
Case:	Aluminum	Aluminum	Aluminum	Aluminum
Weight Case:	700gr	700gr	700gr	700gr
Length Case:	30 cm	30 cm	30 cm	30 cm
Width Case:	18 cm	18 cm	18 cm	18 cm
Height Case:	6,5 cm	6,5 cm	6,5 cm	6,5 cm

*No warranty on batteries

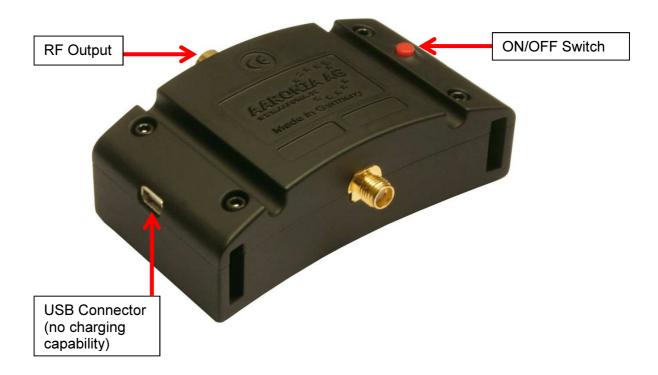
3. Hardware

3.1. Connectors (BPSG 4 and BPSG 6)

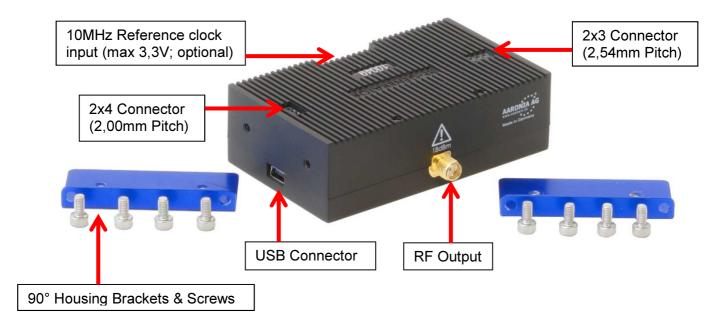
Front view:



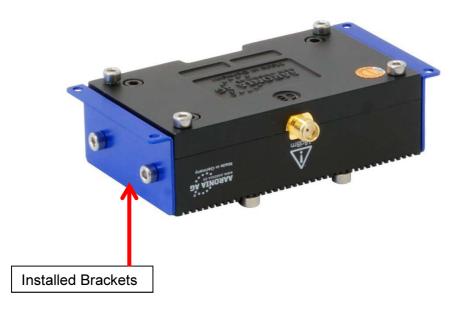
Backview:



3.2. Connectors (BPSG 4 OEM and BPSG 6 OEM)

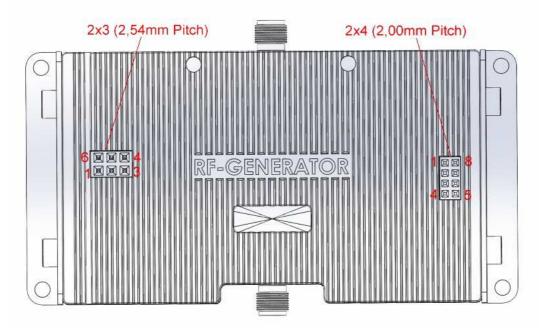


Backview:



RF Signal-Generator

3.3. Pin-Layout OEM Versions



Connector 2X3:

- Pin 1: "Lock Detect" Output; 3,3V, max 10mA (Anode; Can connect directly to a LED, other PIN needs to connect to GND)
- Pin 2: 12V DC in (Charge Input, needs 1A = 12W)
- Pin 3: "Power ON" Output; 3,3V, max 10mA (Anode; Can connect directly to a LED, other PIN needs to connect to GND)
- Pin 4: "Battery Charge Finished" output, 3,3V, max 10mA (Anode; Can connect directly to a LED, other PIN needs to connect to GND)
- Pin 5: "On/OFF and Start/Stop"; TTL, with low level (0V) (Can also be used to directly connect a Push Button) Switch the Generator On/Off or Start/Stop the batch programs
- Pin 6: GND

Connector 2X4:

- Pin 1: USB 5V (For USB)
- Pin 2: USB- (For USB)
- Pin 3: USB+ (For USB)
- Pin 4: "Battery Charging" output, 3,3V, max 10mA (Anode; Can connect directly to a LED, other PIN needs to connect to GND)
- Pin 5: GND (For USB)
- Pin 6: GND (For USB)
- Pin 7: GND (For USB)
- Pin 8: GND (For USB)

3.4. Battery / Power supply

All BPSG Signal Generators come with internal LiPo-Battery which offers 3 – 4 hours runtime.

The charging time for the LiPo-Battery is about 90 minutes. The Charge-LED will turn red at the beginning of the charging process. When charging is complete, the Charge-LED turns green.

By pressing the ON/OFF switch, you can turn the Generator on and off. When the Generator is turned on, the ON/OFF LED lights red.

For a continuous operation, the included power supply can be used.

You can connect also other DC sources with 12V. As connecting plug a 3,5mm jack plug has to be used. The connecting plug has to be poled as follows: The inner pole is "+" and the outer pole is "-". With our optional power adapter for the cigarette lighter (see our pricelist) you can charge or operate signal generator also in the car.

4. Application Examples

- Attenuation tests
- EMC radiated immunity pre-compliance testing
- Generating modulations (AM, FM, PM)
- Wireless communications systems
- Microwave point to point backhaul radios
- Software Defined Radio (SDR)
- Radar
- Automated Test Equipment (ATE)
- Sweeping and hopping
- Scalar Network Analyzers (SNA)
- Complex waveform electronic warfare (EW)
- Phase Lock Loop (PLL) Synthesizer Design
- Local Oscillator (LO) replacement
- Hobbyist radio development and many more...

5. First Operation

The first step should be the installation of the included Generator software. The software is necessary to control the BPSG, change its settings, save sweep profiles and for firmware updates.

Therefore, please use the included CD, open the Auto-Installer and follow the described steps.

Once installed please connect your BPSG with the included USB-Cable to the PC and power it on. The software automatically recognizes the BPSG.

6. Software

6.1. Main Window

Gener	ator Software 1	.4.0-111	The second second	
File	Generator	Extras ?		
Devic	e Information	n		
Devi	ce i			
Nam	er			
Seria	al:			
		RF.	off	0 2
AUT	DETECT:			
NO S	IGNAL GENERAT	OR CONNECTED		
Pleas	se connect your /	Aaronia Signal Generator via l	JSB and turn it on.	
			AAR	

Disconne	cted	Barrounder Michael and Michael	سير التبيين من الم	สสรรได้ไม้ไขยะและของเหมืองได้ไประได้เร

Figure: SW-01

Figure SW-01 shows the main window of the software without the connected generator. The operating functions of the generator are deactivated.

RF Signal-Generator

🛄 Generator So	oftware 1.4.0-111			_ D _ X
F <u>i</u> le Gen	erator <u>E</u> xtras	? (1)		
Device Info	ormation			
Device	13889 BPSG6a			
Name:	BPSG6a	2		
Serial:	13889			
3				
3		RF on	1	
Мі	anual Mode	Program Mode	E E	ixpert Mode (4)
Use Extern	al 10 MHz Referenc	e		
Frequency:		880,000	MHz	
Power:		0,0 🗘	dBm	
				· · · · · · · · · · · · · · · · · · ·
				_ * * * *
Connected		olan Millindon an an Alanan an		

Figure: SW-02

Figure SW-02 shows the main Manual Mode software window in RF On Mode with a generator connected and powered on via USB. The operating functions are activated.

6.2. General Controls

- (1) Main Menu
 - File
 - o Quit
 - > Ends the program
 - Generator
 - o Device Information
 - > Displays the device information for a connected generator (see item 6.x.x.)
 - Extras
 - o Firmware Update
 - > Displays the firmware update dialog (see item 6.x.x.)
 - o Select Language
 - > Selects the display language (see item 6.x.x.)

- \circ Styles
 - > Selects the design of the user interface
- ?
- o Help
 - > Displays the user manual
- o About
 - > Displays information about the software
- (2) Device Information
 - Device

> Displays a drop-down menu with available generators (connected and powered on via USB)

- Name
 > Displays the name of the currently selected generator
- Serial
 > Displays the serial number of the currently selected generator
- (3) RF On/Off Button
 - > Switches the RF output of the currently selected generator on or off
- (4) Tabs for Switching Mode
 - Manual Mode
 > Generates the appointed frequency with the appointed level
 - Program Mode
 > Run or create batch programs
 - Advanced Mode
 > This mode is only intended for advanced users

6.3. Manual Mode

Manual Mode		Expert Mode	
Use External 10 MHz R	\frown		
	2 880.00	MHZ	
Frequency:	000,00	V IVII 12	

Figure: SW-03

- (1) An external reference of 10 MHz may be selected here.
- (2) Entry of the frequency of the output signal (dependent on generator type).
- (3) Signal level.

The signal can be switched on and off at the output using the RF on/off button – refer to Figure: SW-02 (3).

6.4. Program Mode

Current Program:	600.0 - 3800.0 MHz Step 10 MHz 0.0 dBm 20.0s	
carrentriogram	New Sweep Program	
	Test 001	
Use External 10 M		
Currant Fraguancy	880,000	MHz
Current Frequency:		

Figure: SW-04

(1) List of available batch programs. Double-clicking activates the corresponding program.

(2) An external reference of 10 MHz may be selected here.

(3) Display of the current frequency and power output.

(4) Opens the batch program editor.

The signal can be switched on and off at the output using the RF on/off button – refer to Figure: SW-02 (3).

6.4.1. Program Editor



Figure: SW-05

(1) The list of batch programs. When one is selected, it is displayed on the right-hand side. When the dialog is opened, the current program of the generator is selected.

(2) Create a new empty program using the "New" button.

Create a copy of the selected program using the "Copy" button.

Delete the selected program using the "Delete" button.

Save all programs using the "Save" button.

Rename a selected program using the "Rename" button.

Refresh all programs using the "Reload" button.

(3) An external reference of 10 MHz can be selected here.

(4) Mode of the program part. See also the explanation of each individual mode (refer to 6.4.2.).

(5) The data of the current program part. See also the explanation of each individual mode.

(6) List of program parts. Usually you will only have one program. But you can combine different sweeps, in which case there is a duration time of how long the program part remains active for each sweep. A duration time of 0 is interpreted as infinite.

(7) The "Add" button adds the settings from (4) or (5) as a new program part.

The "Modify" button saves the current settings for the selected program part. This is done automatically if the program is changed (1), saved (2), sent to the device (9).

The "Delete" button deletes the selected program part.

The "Clear" button deletes all program parts from the list.

(8) For advanced users only: shows the device-specific translation of the program. This

function is not required for operation.

(9) Writes the current settings to the device.

6.4.2. Program Modes

6.4.2.1. Sweep

Sweep	CW	AM	FM	PM	Repeat	
Start Freq	uency (MHz)			600,000000	
Stop Frequ	uency (I	MHz)			3800,000000	
Step (MHz)				10,000000	
Start Powe	er (dBm))			0,0	
End Power	r (dBm)				0,0	
Sweep Du	ration (s	s)				20,00

Figure: SW-06

Uniformly runs through a frequency range from start to stop. If no increment is specified, then the smallest possible increment is selected.

Since Start and End Power can be set separately, you can also run a Power Ramp or both simultaneously.

6.4.2.2. Constant Wave

Sweep	CW	AM	FM	PM	Repeat	
Frequenc	y (MHz)					600,000000
Power (di	Bm)					0,0
Duration	(s)					20,00

Figure: SW-07

Selects a frequency and a level for the selected time.

6.4.2.3. Amplitude Modulation

Sweep	CW	AM	FM	PM	Repeat	
Carrier Fr	requency	(MHz)				600,000000
AM Frequ	iency (H	z)				400
Max Pow	er (dBm)					0,0
Power Span (dB)						2,0
Duration	(s)					20,00

Figure: SW-08

The carrier frequency is output amplitude-modulated. The modulated frequency can be adjusted from 1 Hz up to 17 kHz. At high frequencies in the kHz range, the accuracy is partially limited to 50 Hz steps.

Max Power determines the maximum of the modulation. The minimum amplitude is Max Power minus Power Span. Depending on the device, it may be that the maximum Span of 31.5 dB cannot be reached.

6.4.2.4. Frequency Modulation

Sweep	CW	AM	FM	PM	Repeat	
Center Fr	requency	y (MHz)				600,000000
Frequenc	y Deviat	tion (MH	z)			500,000000
Modulatio	n Frequ	ency (H	z)			400
Power (di	Bm)					0,0
Duration	(s)					20,00

Figure: SW-09

The center frequency is deviated to the beat of the modulation frequency at Deviation/2. The maximum frequency is Center plus Deviation/2; the minimum frequency is Center minus Deviation/2. The maximum deviation is 500 MHz. The modulation frequency can be selected from 1 Hz to 11 kHz. At high frequencies, the frequency becomes inaccurate and no longer sinusoidal.

6.4.2.5. Pulse Modulation

Sweep	CW	AM	FM	PM	Repeat	
Frequenc	y (MHz)					600,000000
Pulse leng	gth (ms)					0,025
Pulse Fre	quency ((Hz)				400,00
Power (di	Bm)					0,0
Duration	(s)					20,000

Figure: SW-10

The output level is switched to be in time with the Pulse Frequency for the duration of the pulse length. A pulse length of 0 results in a pulse of about 8 microseconds. The pulse frequency can be selected from 0.01 Hz (100 seconds) to 15 kHz.

6.4.2.6. Repeat

Sweep	CW	AM	FM	PM	Repeat	
Repeat N	ext			0 Item	IS	-1 Times

Figure: SW-11

If a program consists of several parts, then you can repeat individual elements or groups here. If the number is set to -1, then the group will be repeated indefinitely. The items determine the group size.

Typically, a program consists of just one part. At the end, it therefore repeats again from the beginning.

This implicit repetition is canceled with a repeat. This makes it possible to send a sequence only after turning on the device and then turning off the output.

In the process, the last setting is always retained. Should the device not send any more levels at the end, you may then close the program with a CW at a level of -50 dBm.

6.5. Advanced Mode

Ма	inual Mode	Program Mode	E E	(pert l	Mode		
Manual Inpu	ut		Chip Reg	giste	rs		
Frequency	2000,000000	\$	RO		00000	Query Regs	
Power	-10,0 dBm 🗘		R1 00000000		00000	Continuous	
Effective		R2 0000000			Write Regs		
	External 10 MHz Reference		R3 00000000				
				R4 00000000			
			R5 00000000		Default		
Chip Settin	gs		Actual	200	0,000000 \$	0 * 0,5 dBm 🌲	
R Counter	R Counter 2 N 1						
N			Internal Registers				
FRAC	1		List		ATT1 ATT2 ATTTA	ARGET IPSTATUS	
MOD	2		ATT1		16	Query Registers	
Output Divid	er(bits) 1		ATT2	3f		Write Registers	
Mute till k	ock 🔽 Fun	damental	ATTTARGET IPSTATUS		28		
Powerdow	and the second second second	ef) Divider			3		
👘 Output Ei		ef) Doubler			0	Dump Memory	
Poweroutput	t (Chip) 3						
Fastlock	1						
Low Noise	0						
		Send					

Figure: SW-12

This mode is only intended for advanced users.

With "Manual Input," you can specify the current frequency and the current level. Pressing enter sends the data. The actual frequency is displayed under "Effective."

Under "Chip Settings," various settings for the chip can be manipulated. The "Poweroutput" is possibly of interest here. If this is reduced, the overall level of the device can be set even lower. However, it will lose its calibration in the process. If settings are changed, then they are transferred by pressing "Send."

Under "Chip Registers," you can directly manipulate the register values. With "Continuous," you can continuously scan them to see the latest chip settings. The "Chip Settings" are synchronized with the Register Settings. By pressing Default, all registers are reset to the default settings.

Under "Internal Registers," you can observe individual registers of the program sequence control. With "Dump Memory," the flash content can be read and saved in a file.

We recommend that only advanced users use this window and only if they are familiar with the hardware! Aaronia offers no support for the Advanced Mode.

6.6. Device Information

Device Device Info	13889 BPSG6a	Refresh	
Device Type	MAXIM		
Firmware Version	20151102-10:32		
Serial	13889		
Name	BPSG6a		
		Write Info	

Figure: SW-13

With "Device," a generator can be selected from the list of available generators. "Refresh" updates this list.

"Firmware Version," "Serial," and "Name" displays the corresponding data of the generator. The name of the generator can be changed and written with "Write Info."

In order to guarantee proper functioning, the interpreter version of the software and the connected generator must be identical.

6.7. Firmware Update

Device	13889 BPSG6a	Refresh
irmware		
File k:/	Program Files/Aaronia AG/HF Gener	rator Software/firmware/l
-		Write Firmwar
12		2
a	and a short be showed a	
interpreter v	ersion Local: 11 Device: 11	d
nterpreter v	ersion Local: 11 Device: 11	

Figure: SW-14

First, close the software. Disconnect the USB connection from all connected generators. Put the generator to be updated into bootloader mode. Turn on and immediately shut off the device 3 times consecutively. The generator's Power LED indicator now lights up solid green. Connect the USB cable to the generator, and open the software. Open "Firmware Update" in the "Tools" menu. "Bootloader" should be selected in the "Device" drop-down menu.

Select the appropriate firmware file, and start the update process by pressing "Write Firmware." The progress is indicated by a bar. When the update process is finished, close the dialog using the "Close" button. Then briefly interrupt the generator's USB connection. The generator is now available again.

🛄 Generator S	ioftware 1.1.0-110	E Sweep Profile Editor			? ×
File Generat	or Extras ?	Available Sweep Profiles	Edit Program		
Overvi	ew Mode Area Expert Mode	600.0 - 3800.0 MHz Step 10 MHz 0.0 dBm 20.0s	Program uses external	10 MHz Reference	
Serial Profile Frequency Power	Ext. Reference(10MHz) CW-985MHz Profile Editor 985,000 MHz ® Run Profile Mode 980,000 MHz ® Run Profile Mode -10,0 dBm % USB Disconnect	885-910-step11008m Full-Sweep-308bm_BPSG4 Full-Sweep-208bm_BPSG4 Full-Sweep-208bm_BPSG4 Full-Sweep-208bm_BPSG6 Full-Sweep-208bm_BPSG6 CW-985MHz test-kHz test-kHz test-wave	Start Frequency (MHz) Stop Frequency (MHz) Step (MHz) Start Power (dBm) End Power (dBm) Sweep Duration (s)	985,000000 985,000000 1,000000 -10,0 -10,0 1,00	Sweep Continuous Wave AM Modulation FM Modulation Pulse Modulation Repeat Sweeps
			Repeat all items forever Set Frequency 985.0 MH	z -10.0 dBm 1.0s	Add Modify Delete Clear
	AARONIA AG	New Copy Delete Save Import Reload			Debug Write to Device
Connected					OK Cancel

6.8. Printable Version of the software

If it is required to print a software window, you can easily switch to a default window style. Open the "Extras" menu in the menu bar and press the "Unload Stylesheet (F11 key)" entry. The application reloads with the default window settings of your operating system.

The design setting will be stored automatically as default design when the application will be launched again.

6.9. Languages

Localization	8 ×
Please select your Languge:	
German - Germany	×
	K Cancel

The generator software supports different languages. Open the "Extras" menu and choose "Select Language". A dialog will be shown. Select your language if it is available. Press the "Ok" button to activate the language.

The language setting will be stored automatically as default language when the application will be launched again.

7. Forum

Please visit our Support- and Forum-Website:

www.spectran-developer.net

Aaronia AG Spectran Developer and User Forum			Q Suche Suche Erweiterte Suche
🛧 Foren-Übersicht			~ A ^
APersönlicher Bereich (Oneue Nachrichten) • Eigene Beiträge			🍳 FAQ 🎎 Mitglieder 😃 Abmelden [admin]
Aktuelle Zeit: 05 Okt 2015, 09:06 [Moderations-Bereich]			Ihr letzter Besuch: 29 Sep 2015, 15:28
Unbeantwortete Themen • Ungelesene Beiträge • Neue Beiträge • Aktive Themen			Alle Foren als gelesen markierer
FAQ	THEMEN	BEITRÄGE	LETZTER BEITRAG
Spectrum Analyzer Aaronia Spectrum Analyzer (SPECTRAN NF, SPECTRAN HF, SPECTRAN XFR, SPECTRAN X, SEPCTRAN 19", Spectran V5)	284	769	von Moderator D 29 Sep 2015, 10:56
Antennas Aaronia Antennas (HyperLOG [logper], BicoLOG [biconical], OmniLOG [isotropic/3D], MagnoTRACKER [magnetic] and our EMC/EMI-Probe-Set)	54	130	von Moderator D 01 Sep 2015, 21:01
RF Signal-Generator Aaronia RF-Generator and Field Strength Generator solutions up to 14GHz	6	7	von Moderator D 24 Sep 2015, 12:11
RF Preamplifier Aaronia Low Noise Preamplifier series up to 35GHz	7	7	von Moderator D 24 Sep 2015, 09:58
RF Switch-Matrix Aaronia RF Switches	1	1	von Moderator D 26 Feb 2015, 15:48
GPS Data Logger Aaronia GPS and Data-Logger (also logging/including: Gyro, Tilt, Air Pressure, Height, Speed, Digital Compass)	25	60	von Moderator D 03 Okt 2015, 12:55
RF/EMC Screening and Shielding Aaronia screening/damping material (Aaronia X-Dream, Aaronia Shield, Aaronia Magnoshield, A2000+)	12	24	von Moderator D 18 Aug 2015, 11:23
SAFE PC Aaronia High Security DUAL PC systems	1	1	von Moderator D 13 Okt 2014, 15:41
Formula & Math Unit conversion and RF calculations	12	38	von Moderator D 07 Aug 2015, 16:45

Here you can find, amongst others, a forum with a lot of helpful tips & tricks, especially about handling the Signal Generators. This Forum is open for the public. After a short registration process, you can place your questions and exchange information with other Aaronia users.

Here you can find a variety of helpful tips & tricks covering all of the Aaronia products, including the BPSG Signal Generators. The Forum is searchable and open to the public, but after a simple registration process, you can also post questions and exchange information with other Aaronia users.