



PRODUCT PORTFOLIO 2024

Spectrum Analyzers | Measurement Antennas | Drone Detection | Shielding Materials





The company

Aaronia AG is a manufacturer of test- and measurement equipment, headquartered in Germany. Founded in 2003 by the CEO Mr. Thorsten Chmielus, the company is known worldwide for its highly innovative products and solutions, especially our selection of unique spectrum

analyzers and antennas. Aaronia's main competence consists of high-frequency and microwave know-how, developed over many years by highly specialized engineers, providing up-to-date hardware and software tools.

German engineering

Aaronia AG products are designed, developed, individually manufactured and calibrated in Germany, which allows the company to guarantee highest quality standards. Aaronia invented and defined a new class of spectrum analyzers - the true handheld spec-

trum analyzer. The first unit was shipped in 2004. In 2008, Aaronia announced the fourth generation of the SPECTRAN® Spectrum Analyzers, the V4 series, first and still only handheld analyzer offering a sensitivity of -170dBm/Hz.

Always on the edge of innovation

Pushing the invention further, Aaronia developed a complete Drone Detection and Counter Measure System in 2013 as one of the first on the market. The AARTOS™ Drone Detection System is currently installed more than 100 times worldwide.

Aaronia's latest big development is the SPECTRAN® V6 series, spectrum analyzers with a range from 9 kHz to up to 110GHz and a real-time bandwidth of up to 3 THz! Its full bandwidth True IQ-streaming via USB makes the V6 series unique in the market.

Industry leading software

One of the key areas Aaronia keeps pushing beyond its competitors is the flexibility and usability of our software. The RTSA-Suite Pro is a highly modular program, renown for having some of the best ways to display RF information as graphical data.

It can be used with a large array of Aaronia products. Some applications include spectrum analysis, drone detection, signal demodulation, signal localization, remote control of Aaronia devices and more!



Spectrum analyzers

Aaronia spectrum analyzers enable RF and EMC measurements in real time and at a spectacular price. Finding sources of interference and their causes, determining frequency and signal strength, measuring and evaluating even the most complex limits - all this is easily possible with Aaronia measuring instruments. All SPECTRAN® series instruments are developed, manufactured and calibrated by Aaronia in Germany. This guarantees the highest quality standards!



Antennas and shielding

Aaronia AG specializes in the development and construction of quality antennas of all types. With the antennas developed and manufactured in Germany, almost all measurement scenarios can thus be served. The highly transparent EMC shielding material Aaronia-Shield® and the high-tech EMC shielding fleece Aaronia X-Dream®, for example, offer very high EMC protection. For magnetic field shielding, our MagnoShield® series offers unparalleled protection against alternating magnetic fields.



2003

FOUNDING
Aaronia AG is founded by Thorsten Chmielus in Lünebach, Germany.

2013

AARTOS DDS
In 2013, Aaronia developed the world's first drone detection system of its kind, AARTOS™.

2023

NEW PRODUCTS
Aaronia AG massively extends the range of SPECTRAN® V6 Spectrum Analyzers with the introduction of the ECO, 5G and XPLOER versions.

2008

HANDHELD
In 2008, Aaronia was the first company to launch a handheld portable spectrum analyzer. Its sensitivity of -170 dBm DANL set a new world record.

2019

GENERATION 6
In 2019, Aaronia AG launched the 6th generation of the AARTOS™ system. Combining the new SPECTRAN® V6 Spectrum Analyzer with the IsoLOG® 3D direction finding antenna, it is able to locate both the position and altitude of incoming drones - another industry first!

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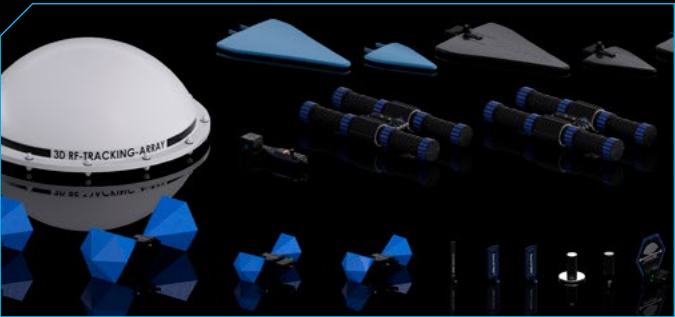
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Real-Time Spectrum Analyzer Overview



Our SPECTRAN® V6 series of real-time spectrum analyzers are the most compact and fastest analyzers on the market. The SPECTRAN® V6 can reliably capture even the shortest signal transmissions, sweeping 6 GHz in less than 5 milliseconds (over

1 THz per second). Its full bandwidth IQ streaming (via USB) makes the V6 series unique on the market. With no other analyzer even coming close!

With countless capabilities, the SPECTRAN® V6 lets you overcome almost any challenge. Such

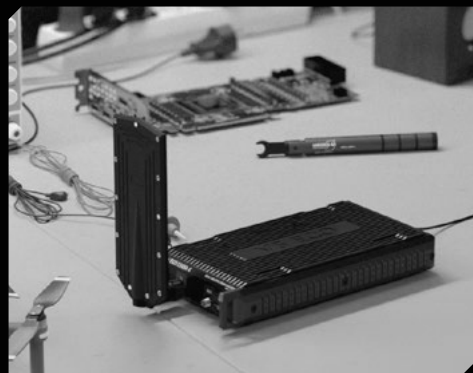
as spectrum monitoring, RF and microwave measurements, interference hunting, EMC testing, Wi-Fi and wireless network measurements, RF surveillance or counter-surveillance measurements. The V6 is the ideal spectrum analyzer for taking fast and reliable measurements.

With a weight of only 850 g, the V6 is perfect for conducting measurements in the field, while it's high-tech features also make it fit for use in the lab. Each V6 includes our PC analysis software RTSA-Suite PRO, transforming it into a fully-featured benchtop spectrum analyzer.



SPECTRAN® V6 — BEYOND REALTIME — REALTIME SPECTRUM ANALYZER PLUS

- 10 MHz up to 8 GHz frequency range
- Up to 245 MHz real-time bandwidth
- Up to 1100 GHz/s sweep speed
- IQ POI of 15/10 ns
- DANL of -170 dBm/Hz



SPECTRAN® V6 — BEYOND REALTIME — REALTIME SPECTRUM ANALYZER ECO

- 9 kHz up to 7.25 GHz frequency range
- Up to 2x 44 MHz real-time bandwidth
- Up to 3 THz/s sweep speed
- IQ POI of 30/20 ns
- DANL of -170 dBm/Hz



SPECTRAN® V6 — BEYOND REALTIME — REALTIME SPECTRUM ANALYZER 5G

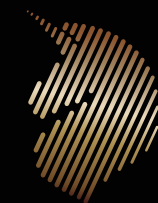
- 250 MHz to 53 GHz frequency range
- 60 MHz real-time bandwidth
- Up to 3 THz/s sweep speed
- IQ POI of 30/20 ns
- DANL of -170 dBm/Hz



SPECTRAN® V6 — BEYOND REALTIME — REALTIME SPECTRUM ANALYZER XPR

- 5 GHz to 110 GHz frequency range
- 60 MHz real-time bandwidth
- Up to 3 THz/s sweep speed
- IQ POI of 30/20 ns
- DANL of -170 dBm/Hz

SPECTRAN® V6 Form Factors



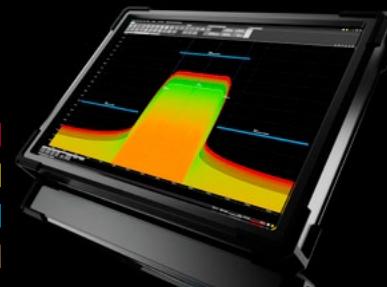
V6CUSTOMIZED — PRECISION MADE SPECTRUM ANALYZERS —

Aaronia AG offers optimised solutions for almost every application. In addition to the compact USB desktop variants, our analyzers are integrated into diverse form factors. Whether it's a handy and powerful tablet, rugged outdoor devices or absolute high-end performance as a server solution - Aaronia AG has the right device for you.

In addition to the standard configurations included in this catalog of our form factors, we offer our **V6CUSTOMIZED** service for all devices. Here you have the option of freely allocating all available SPECTRAN® V6 analyser slots as well as customising the hardware of the unit itself. Try our configurator at configurator.aaronia.com.

SPECTRAN® V6 Mobile 1 SPECTRAN® V6 slot

- OUTDOOR
- MOBILE
- BATTERY POWERED
- V6CUSTOMIZED



SPECTRAN® V6 MIL 1 SPECTRAN® V6 slot

- OUTDOOR
- MOBILE
- BATTERY POWERED
- V6CUSTOMIZED



SPECTRAN® V6 Command Center Up to 4 SPECTRAN® V6 slots

- OUTDOOR
- INDOOR
- MOBILE
- STATIONARY
- HIGH END
- V6CUSTOMIZED



SPECTRAN® V6 ODB 1 SPECTRAN® V6 slot

- OUTDOOR
- REMOTE
- STATIONARY
- V6CUSTOMIZED



SPECTRAN® V6 RSA Up to 6 SPECTRAN® V6 slots

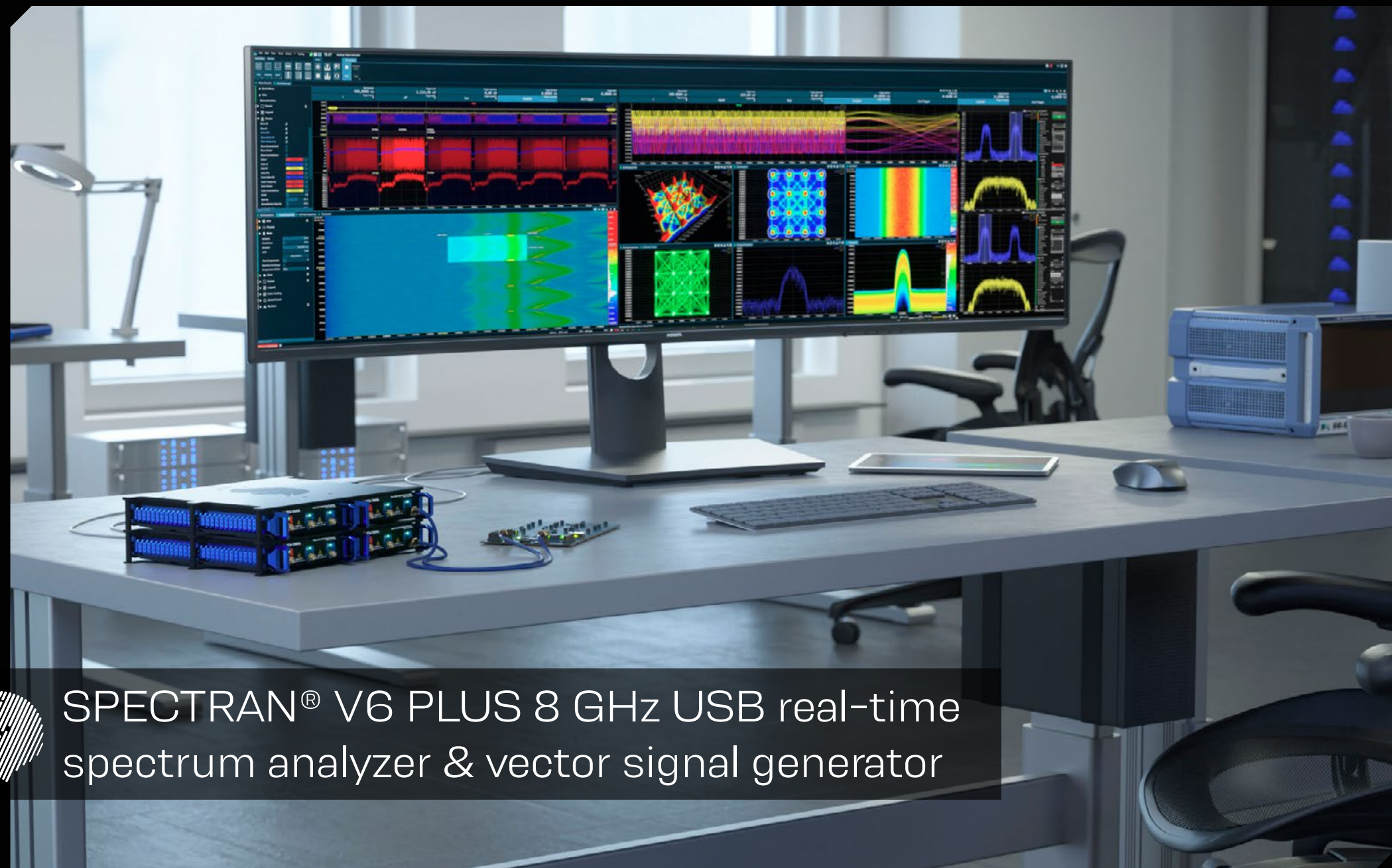
- INDOOR
- REMOTE
- STATIONARY
- V6CUSTOMIZED



SPECTRAN® V6 IQR Up to 10 SPECTRAN® V6 slots

- INDOOR
- REMOTE
- STATIONARY
- HIGH END
- V6CUSTOMIZED





SPECTRAN® V6 PLUS 8 GHz USB real-time
spectrum analyzer & vector signal generator

USB Real-Time Spectrum Analyzers



Aaronia's latest generation of high performance real-time spectrum analyzers: Even the entry-level SPECTRAN® V6 250XA-6 model is equipped

with a real-time bandwidth of 80MHz (optionally 120MHz) while the 500XA-6 version features an additional vector signal generator. The flagship

model 2000XA-6 is equipped with an astonishing real-time bandwidth of 160MHz (optionally 245MHz) and a sweep speed of up to 1100

GHz/s. The SPECTRAN® V6 requires little space in the laboratory and is also ideal for mobile applications due to its low power requirements.



V6 PLUS 250XA-6

Frequency Band 10MHz - 6 8 GHz	IQ POI 30 20 ns	Sweep Speed 300 440GHz/s	RTBW 80 120MHz
Rx	1 Rx (SMA)	Design	USB Desktop
Tx	-	Weight	850 g
DANL	-165 dBm/Hz	SKU#	102/001



V6 PLUS 500XA-6

Frequency Band	IQ POI	Sweep Speed	RTBW
10MHz - 6 8 GHz	30 20 ns	300 440GHz/s	80 120MHz
Rx	1 Rx	Design	USB Desktop
Tx	1 Tx	Weight	850 g
DANL	-168 dBm/Hz	SKU#	102/002



V6 PLUS 2000XA-6

Frequency Band 10MHz - 6 8 GHz	IQ POI 15 10 ns	Sweep Speed 730 1100GHz/s	RTBW 160 245M
Rx	2 Rx	Design	USB Desktop
Tx	1 Tx	Weight	850 g
DANL	-170 dBm/Hz	SKU#	102/003

Hardware Options

⊕ 120 MHz I/Q RTBW	250XA-6/500XA-6 only
⊕ 245 MHz I/Q RTBW	2000XA-6 only

	120 MHz Tx	250XA-6 only
	Ultra Low Noise Preamp	Additional 20 dB of gain

- OCXO Timebase ultra high vibration resistance
- Internal GPS spoofing detection/active GPS antenna

USB Real-Time Spectrum Analyzers

V6
ECO



SPECTRAN® V6 ECO 8 GHz USB real-time spectrum analyzer & vector signal generator

USB Real-Time Spectrum Analyzers

OUTDOOR
INDOOR
MOBILE
STACKABLE
USB POWERED
V6
ECO



Aaronia presents the SPECTRAN® V6 ECO, a real-time, high-performance, spectrum analyzer and monitoring receiver designed to capture even the shortest signal transmissions. Its scanning speed and recording time are unrivaled. The analyzer scans 6GHz in

2ms (3THz/s), making it the world's fastest USB spectrum analyzer. The entry-level 100XA-6 model features 1 Rx input with a RTBW of 44 MHz, a vector signal output is added for the 150XA-6 version. The 200XA-6 with 2 Rx and a RTBW of 2x44MHz completes the ECO V6 lineup.



V6 ECO 100XA-6			
Frequency Band	IQ POI	Sweep Speed	RTBW
9kHz - 6 7.25 GHz	30 20 ns	500GHz/s	44MHz
Rx	1 Rx	Design	USB Desktop
Tx	-	Weight	850 g
DANL	-170 dBm/Hz	SKU#	102/011



V6 ECO 150XA-6			
Frequency Band	IQ POI	Sweep Speed	RTBW
9kHz - 6 7.25 GHz	30 20 ns	500GHz/s	44MHz
Rx	1 Rx	Design	USB Desktop
Tx	1 Tx	Weight	850 g
DANL	-170 dBm/Hz	SKU#	102/036



V6 ECO 200XA-6			
Frequency Band	IQ POI	Sweep Speed	RTBW
9kHz - 6 7.25 GHz	30 20 ns	500GHz/s 3THz/s	2x 44MHz
Rx	2 Rx	Design	USB Desktop
Tx	-	Weight	850 g
DANL	-170 dBm/Hz	SKU#	102/037

Hardware Options

+	Ultra Fast Tictoc LO	3THz/s sweep speed
+	Frequency Extention WiFi6E	9kHz - 7.25GHz

+	Internal Rx1 PowerMeter	1MHz to 8GHz
+	Ultra Low Noise Preamp	Additional 20 dB of gain

+	OCXO Timebase	ultra high vibration resistance
+	Internal GPS	spoofing detection/active GPS antenna

USB Real-Time Spectrum Analyzers

V6
ECO



SPECTRAN® V6 ECO 18 GHz USB real-time spectrum analyzer & vector signal generator

USB Real-Time Spectrum Analyzers

OUTDOOR
INDOOR
MOBILE
STACKABLE
USB POWERED
V6
ECO



This spectrum analyzer enables you to conquer almost any challenge. Whether it's spectrum monitoring, RF and microwave measurements, Interference hunting, EMC testing or Wi-Fi and wireless network measurements, the SPECTRAN® V6 ECO-18 is the ideal spectrum analyzer

for making reliable and fast measurements. The included analysis software, RTSA-Suite PRO, transforms the V6 ECO-18 into a fully-featured benchtop spectrum analyzer. The V6 ECO-18 offers a solution for almost every application.



V6 ECO 100XA-18

Frequency Band	IQ POI	Sweep Speed	RTBW
9kHz - 18 GHz	30 20 ns	500GHz/s 3THz/s	60MHz
Rx	1 Rx	Design	USB Desktop
Tx	-	Weight	850 g
DANL	-170 dBm/Hz	SKU#	102/065

Hardware Options

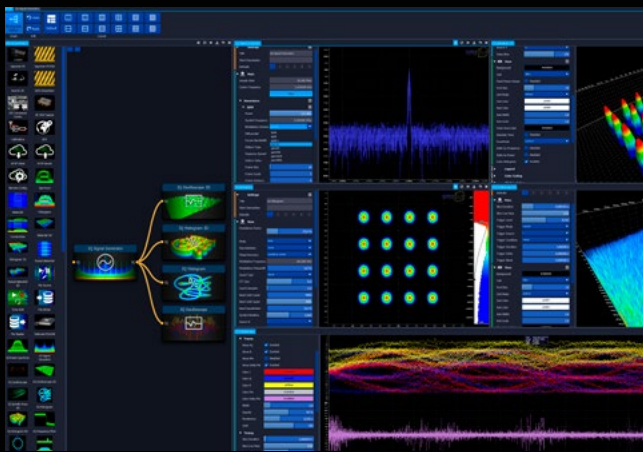
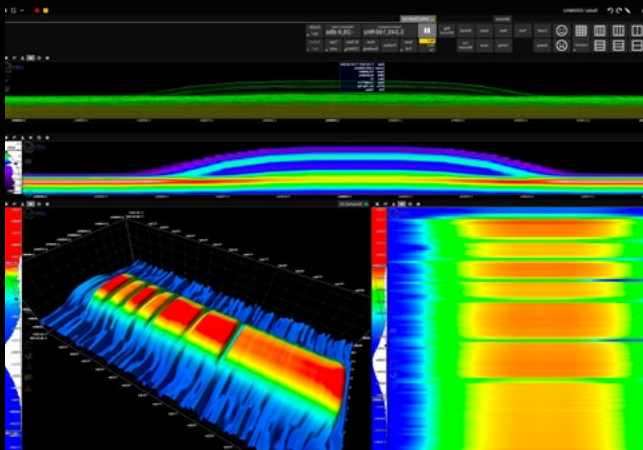
+	Ultra Fast Tictoc LO	3THz/s sweep speed
+	PowerMeter	Up to 70 GHz



V6 ECO 150XA-18

Frequency Band	IQ POI	Sweep Speed	RTBW
9kHz - 18 GHz	30 20 ns	500GHz/s 3THz/s	60MHz
Rx	1 Rx	Design	USB Desktop
Tx	1 Tx	Weight	850 g
DANL	-170 dBm/Hz	SKU#	102/066

+	OCXO Timebase	ultra high vibration resistance
+	Ultra Low Noise Preamp	Additional 20 dB of gain



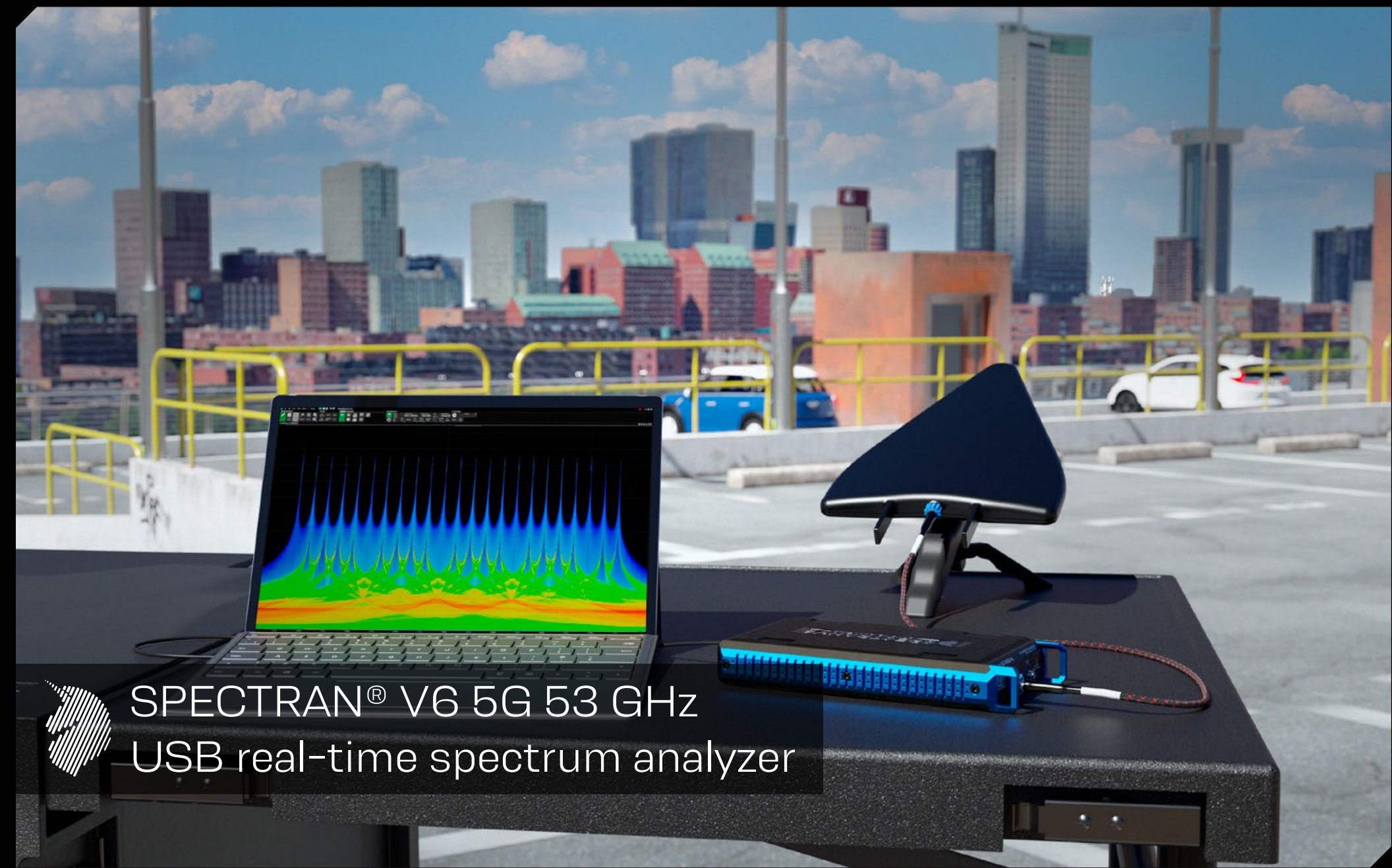
+	Internal GPS	spoofing detection/active GPS antenna
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Real-Time Analyzers

USB Real-Time Spectrum Analyzers

V6

5G





SPECTRAN® V6 5G 53 GHz
USB real-time spectrum analyzer

Real-Time Analyzers

USB Real-Time Spectrum Analyzers

OUTDOOR

INDOOR

MOBILE

STACKABLE

USB POWERED

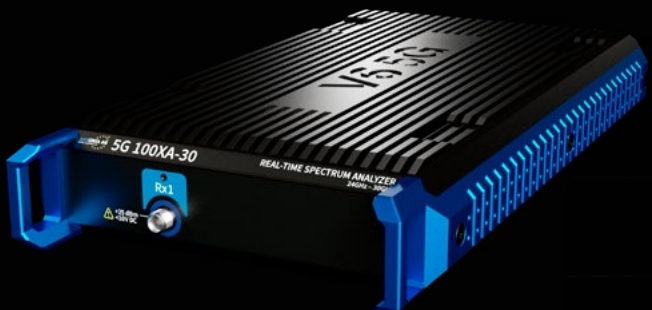
V6

5G



SPECTRAN® V6
BEYOND REALTIME
REALTIME SPECTRUM ANALYZER 5G

Aaronia presents the SPECTRAN® V6 5G, a real-time spectrum analyzer specifically designed for monitoring 5G networks, detecting even the shortest signal interference or performance degradation. Its price/performance ratio as well as the number of available additional functions are unsurpassed. The analyzer scans 6GHz in less than 10ms (500 GHz/s), making it one of the fastest USB spectrum analyzers in the world. Three different versions are provided, covering the complete range of 5G bands. Simply choose the one which fulfills your requirements.



V6 5G 100XA-30

Frequency Band	IQ POI	Sweep Speed	RTBW
24GHz - 30GHz	30 20 ns	500GHz/s 3THz/s	60MHz

Rx	1 Rx	Design	USB Desktop
Tx	-	Weight	850 g
DANL	-170 dBm/Hz	SKU#	102/053



V6 5G 200XA-50

Frequency Band	IQ POI	Sweep Speed	RTBW
250MHz - 7.5GHz 24 - 53GHz	30 20 ns	500GHz/s 3THz/s	60MHz

Rx	2 Rx	Design	USB Desktop
Tx	-	Weight	850 g
DANL	-170 dBm/Hz	SKU#	102/055

Hardware Options

+

 Ultra Fast Tictoc LO

3THz/s sweep speed

+

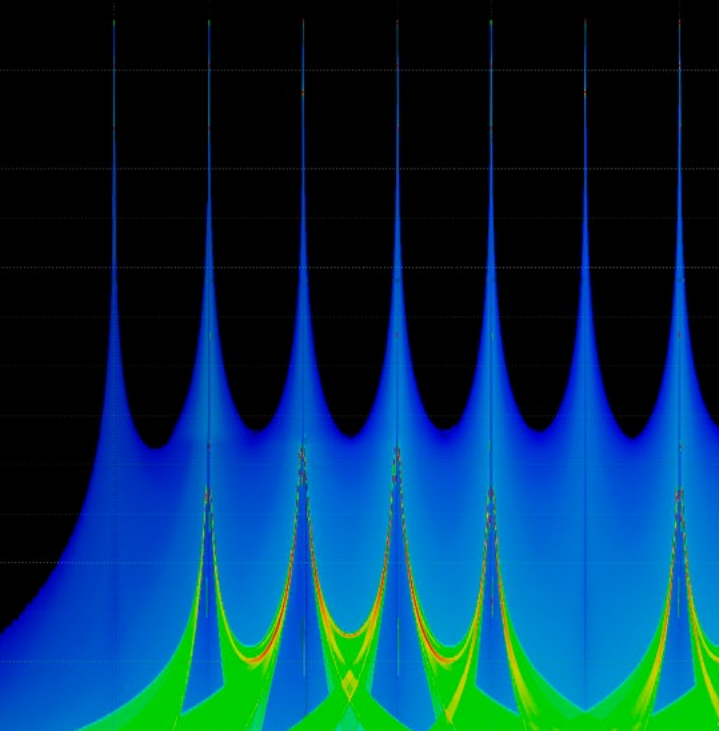
 Ultra Low Noise Preamp

Additional 20 dB of gain

+

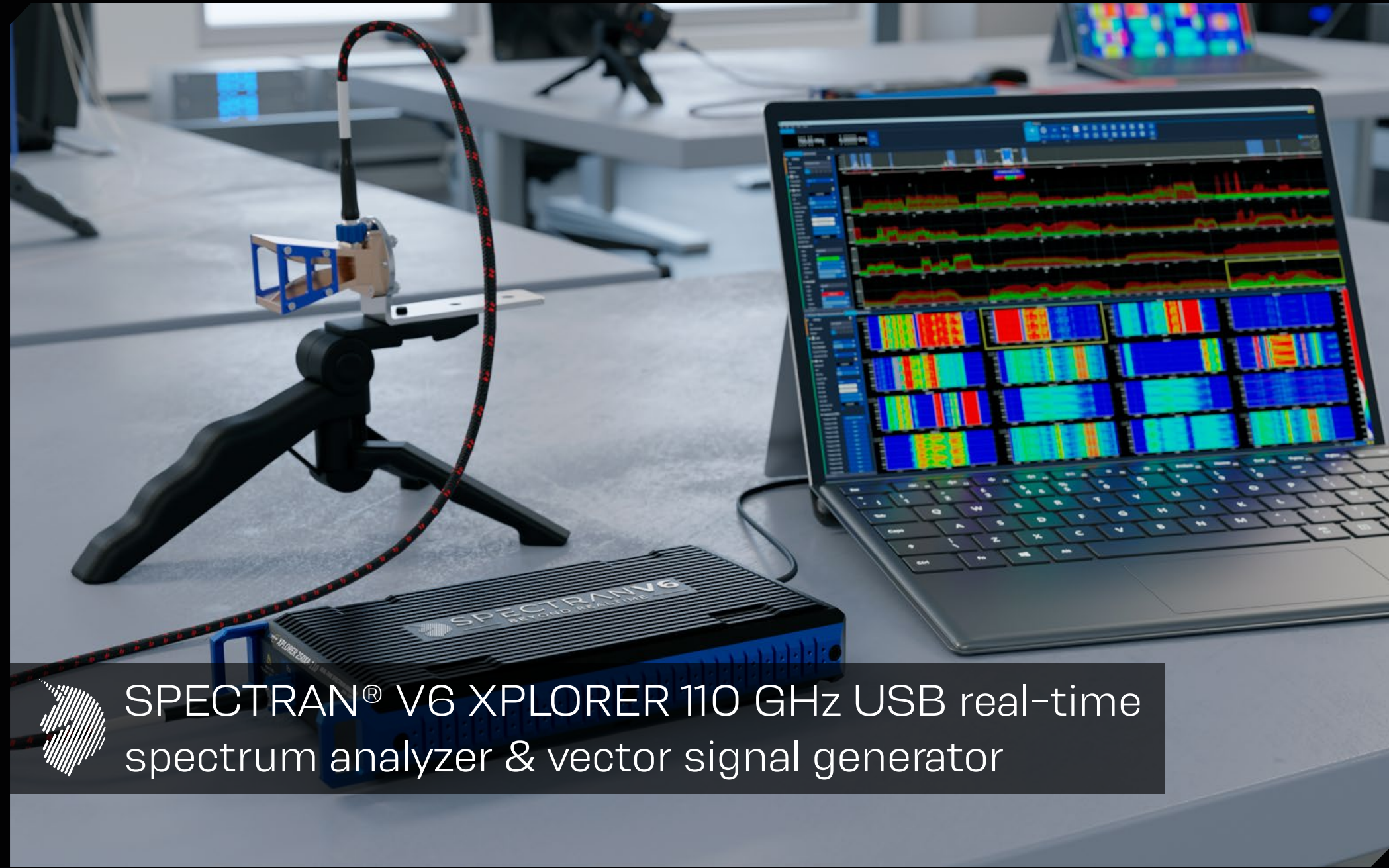
 Internal GPS

spoofing detection/active GPS antenna



USB Real-Time Spectrum Analyzers

V6
XPR



SPECTRAN® V6 XPLORER 110 GHz USB real-time spectrum analyzer & vector signal generator

USB Real-Time Spectrum Analyzers

OUTDOOR
INDOOR
MOBILE
STACKABLE
USB POWERED
V6
XPR



The new SPECTRAN® V6 XPLORER, the first USB spectrum analyzer for microwave applications > 100GHz. It is designed to provide a cost-effective development and validation platform for all millimeter-wave applications, including those with the shortest signal transmissions. Despite its compact size and light weight, its sampling speed is virtually unmatched. With this, you can master almost any challenge in the microwave range. Whether spectrum monitoring, setting up radio relay links, testing automotive distance control systems or any radar device.



V6 XPLORER 150XA-70

Frequency Band	IQ POI	Sweep Speed	RTBW
5GHz - 70GHz	30 20 ns	500GHz/s 3THz/s	60MHz

Rx	1 Rx	Design	USB Desktop
Tx	1 Tx	Weight	850 g
DANL	-170 dBm/Hz	SKU#	102/059



V6 XPLORER 150XA-90

Frequency Band	IQ POI	Sweep Speed	RTBW
5GHz - 90GHz	30 20 ns	500GHz/s 3THz/s	60MHz

Rx	1 Rx	Design	USB Desktop
Tx	-	Weight	850 g
DANL	-170 dBm/Hz	SKU#	102/060



V6 XPLORER 150XA-110

Frequency Band	IQ POI	Sweep Speed	RTBW
5GHz - 110GHz	30 20 ns	500GHz/s 3THz/s	60MHz

Rx	1 Rx	Design	USB Desktop
Tx	-	Weight	850 g
DANL	-170 dBm/Hz	SKU#	102/061

Hardware Options

- Ultra Fast Tictoc LO 3THz/s sweep speed
- Ultra Low Noise Preamp Additional 20 dB of gain

- Internal GPS spoofing detection/active GPS antenna

Real-Time Mobile Outdoor Spectrum Analyzers



High-performance SPECTRAN® V6 real-time outdoor spectrum analyzer with tablet formfactor

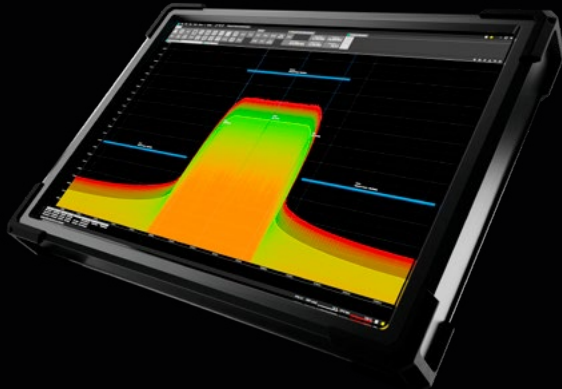
Real-Time Mobile Outdoor Spectrum Analyzers

- OUTDOOR
- INDOOR
- MOBILE
- BATTERY POWERED
- V6CUSTOMIZED



Introducing the ultimate mobile handheld spectrum analyzer! Our cutting-edge solution is designed for professionals on the move, offering real-time spectrum analysis at your fingertips. What sets it apart is its complete adaptability - you can customize it with any SPECTRAN® V6 to meet your specific requirements.

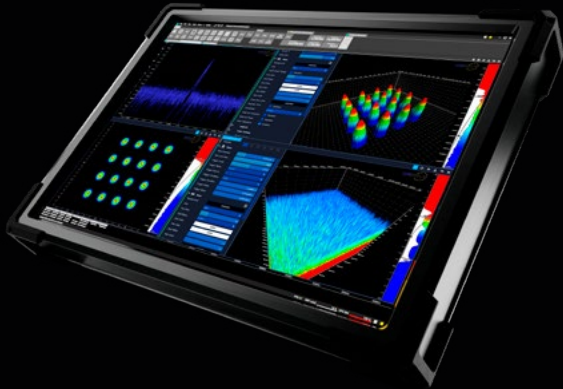
Our optimized touch-screen-capable RTSA Suite PRO software ensures a user-friendly experience, making spectrum analysis easier and more efficient than ever. Plus, with a long-lasting battery, you can stay connected and capture crucial data for extended periods.



V6 Mobile 100SA-6

Frequency Band	IQ POI	Sweep Speed	RTBW
9kHz - 6 8 GHz	30 20 ns	500GHz/s	44MHz

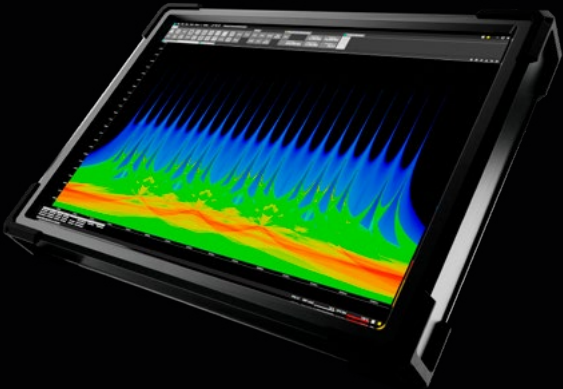
Rx	1 Rx	Design	Outdoor Tablet
Tx	-	Weight	TBA
DANL	-170 dBm/Hz	SKU#	TBA



V6 Mobile 2000SA-6

Frequency Band	IQ POI	Sweep Speed	RTBW
10MHz - 6 8 GHz	15 10 ns	730 1100GHz/s	160 245MHz

Rx	2 Rx	Design	Outdoor Tablet
Tx	1 Tx	Weight	TBA
DANL	-170 dBm/Hz	SKU#	TBA



V6 Mobile 500SA-50

Frequency Band	IQ POI	Sweep Speed	RTBW
250MHz - 7.5GHz 24 - 53GHz	30 20 ns	500GHz/s 3THz/s	60MHz

Rx	2 Rx	Design	Outdoor Tablet
Tx	-	Weight	TBA
DANL	-170 dBm/Hz	SKU#	TBA

Hardware Options

- +

Frequency Extention WiFi6E

Mobile ECO/PLUS only
- +

245 MHz I/Q RTBW

Mobile PLUS only

- +

Internal GPS

spoofing detection/active GPS antenna
- +

Internal Preamp

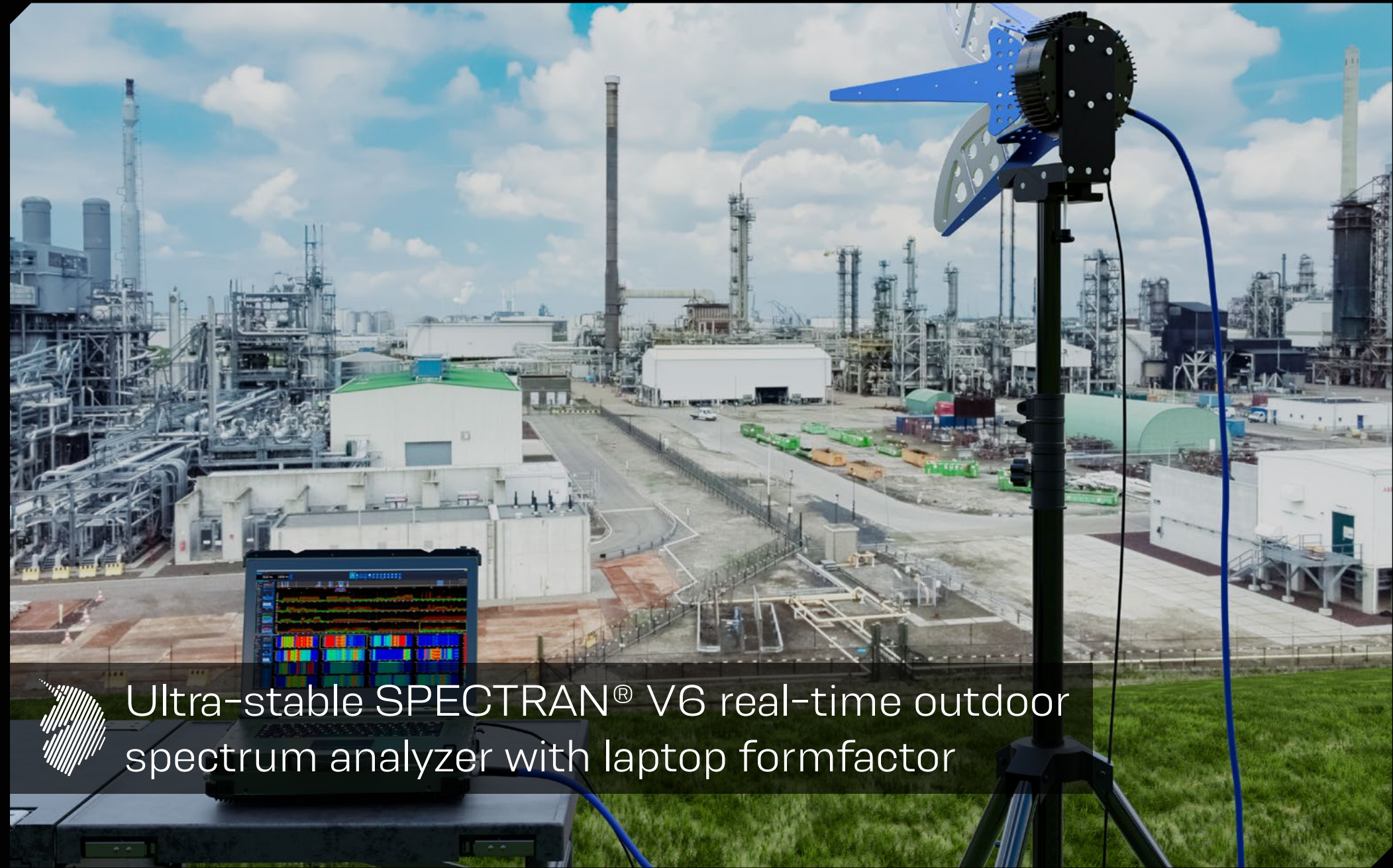
additional 20 dB of gain

- +

OCCO Timebase

ultra high vibration resistance

Real-Time Rugged Outdoor Spectrum Analyzers



Ultra-stable SPECTRAN® V6 real-time outdoor spectrum analyzer with laptop formfactor

Real-Time Rugged Outdoor Spectrum Analyzers

OUTDOOR BATTERY POWERED
MOBILE V6CUSTOMIZED



The SPECTRAN® V6 MIL 250MA-6 consists of an entry-level real-time spectrum analyzer built into a powerful and extremely shock-resistant outdoor laptop certified to MIL-STD-810G and IP65 standards. The V6 MIL 500MA-6 also features a vector signal generator while the high-end SPECTRAN® V6 2000MA-6 spectrum analyzer is equipped with 160MHz (optional 245MHz) real-time bandwidth. It is ideal for all mobile applications in the field as it is capable of capturing and displaying signal transmissions in every conceivable way.



MIL 250MA-6

Frequency Band	IQ POI	Sweep Speed	RTBW
10MHz - 6 8GHz	30 ns	300GHz/s	80MHz
Rx	1 Rx	Design	Outdoor Laptop
Tx	-	Weight	9.5 kg
DANL	-165 dBm/Hz	SKU#	102/013



MIL 500MA-6

Frequency Band	IQ POI	Sweep Speed	RTBW
10MHz - 6 8GHz	20 ns	440GHz/s	120MHz
Rx	1 Rx	Design	Outdoor Laptop
Tx	1 Tx	Weight	9.5 kg
DANL	-168 dBm/Hz	SKU#	102/014



MIL 2000MA-6

Frequency Band	IQ POI	Sweep Speed	RTBW
10MHz - 6 8GHz	15/10 ns	730 1100GHz/s	160/245MHz
Rx	2 Rx	Design	Outdoor Laptop
Tx	1 Tx	Weight	9.5 kg
DANL	-170 dBm/Hz	SKU#	102/015

Hardware Options

- + 120 MHz I/Q RTBW V6 MIL only
- + 245 MHz I/Q RTBW V6 MIL EE only

- + 2/4/8 TB Memory
- + Internal Preamp additional 20 dB of gain

- + OCXO Timebase ultra high vibration resistance
- + Internal GPS spoofing detection/active GPS antenna



 Mobile SPECTRAN® V6 real-time counter-surveillance command center



Command Center 2000CA-6

Frequency Band	IQ POI	Sweep Speed	RTBW
10MHz - 6 8GHz	15 ns	730GHz/s	160MHz
Receiver	1	RAM	32 GB
Rx	1 Rx	Storage	- / 4 TB
Tx	-	Design	Mobile Command Center
DANL	-165 dBm/Hz	Weight	30 kg
Network	10 GbE	SKU#	102/016

Hardware Options

 Dual 245 MHz I/Q RTBW	PRO/EE only
 245 MHz Tx Data rate	PRO / EE only



Command Center 4000CA-6

Frequency Band	IQ POI	Sweep Speed	RTBW
10MHz - 6 8GHz	15/10 ns	1460/2200GHz/s	320/490MHz
Receiver	2	RAM	64 GB
Rx	4 Rx	Storage	4 / 8 TB
Tx	2 Tx	Design	Mobile Command Center
DANL	-170 dBm/Hz	Weight	30 kg
Network	2x 10 GbE	SKU#	102/017

 Extended Temperature Range -40°C to +75°C	
 Internal Preamp	additional 20 dB of gain



Command Center 8000CA-6

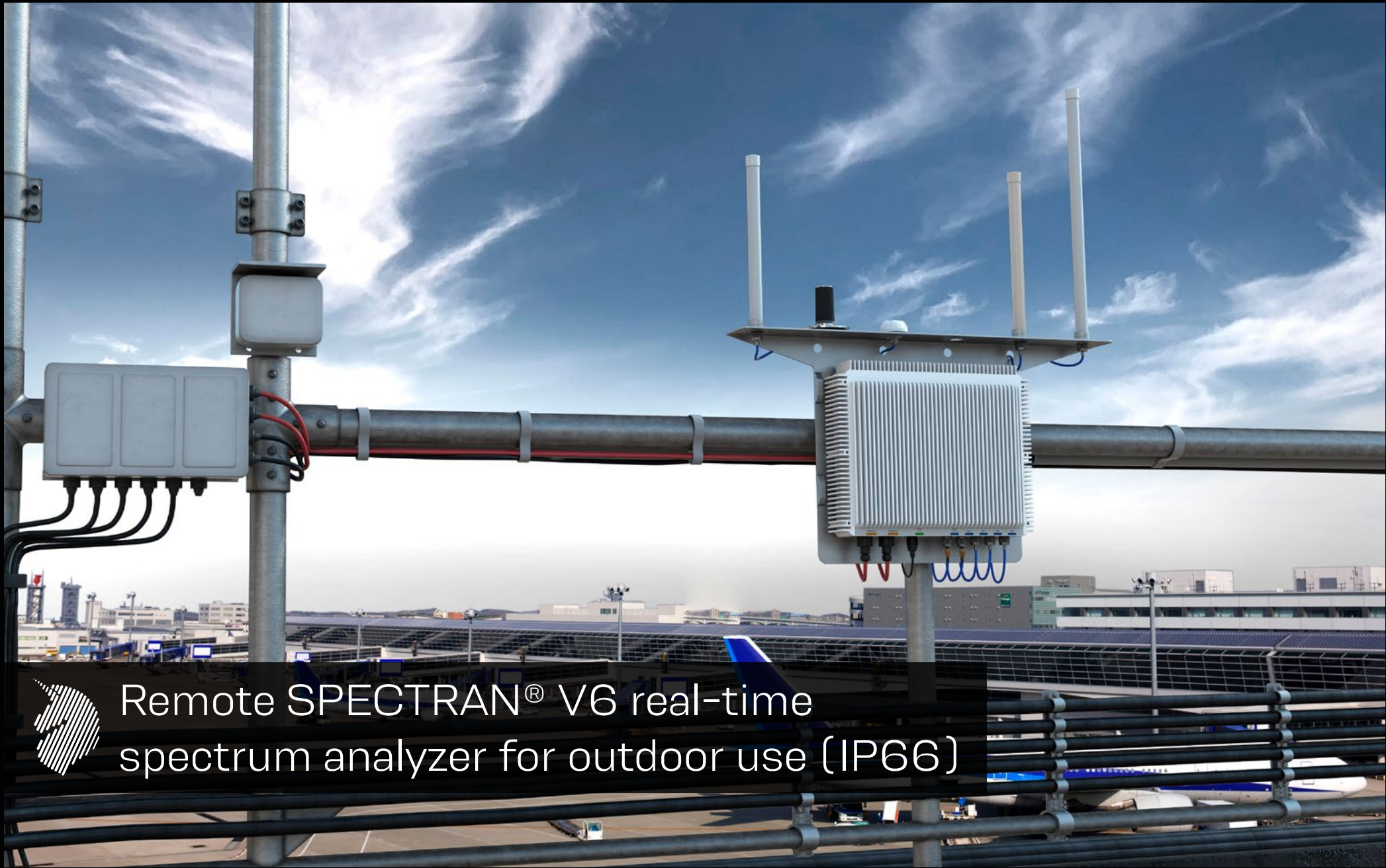
Frequency Band	IQ POI	Sweep Speed	RTBW
10MHz - 6 8GHz	15/10 ns	2920/4400GHz/s	640/980MHz
Receiver	4	RAM	128 GB
Rx	8 Rx	Storage	8 / 24 TB
Tx	4 Tx	Design	Mobile Command Center
DANL	-170 dBm/Hz	Weight	30 kg
Network	2x 100 GbE	SKU#	102/018

 OCXO Timebase	ultra high vibration resistance
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Even the basic version shines with expandable 160 MHz RTBW or more than 730 GHz/s sweep. Thus, this customizable high-end spectrum analyzer already offers excellent performance for all basic measurement scenarios in a mobile dual-screen system. With up to 490 MHz RTBW

or more than 2 THz/s sweep the 4000CA-6 variant already is one of the fastest real-time spectrum analysis solutions in the world, only surpassed by the 8000CA-6 with an astonishing RTBW of up to 980 MHz combined with a sweep speed of more than 4 THz/s.

Real-Time Remote Outdoor Spectrum Analyzers



 Remote SPECTRAN® V6 real-time spectrum analyzer for outdoor use (IP66)

Real-Time Remote Outdoor Spectrum Analyzers

OUTDOOR

REMOTE

STATIONARY

V6CUSTOMIZED



The SPECTRAN® V6 RODB lineup feature an IP66 certified outdoorbox incl. SPECTRAN® V6 real-time spectrum analyzer and Mini-PC for remote data analysis and streaming.

The bigger flagship 2000RA-6 is not only the most performing variant but is also perfectly suited for 24/7 spectrum monitoring, since the data storage can be upgrade to up to 30 TB.



RODB 100RA-6

Frequency Band	IQ POI	Sweep Speed	RTBW
9kHz - 6 8GHz	40 ns	500GHz/s	44MHz
Receiver	1	Network	1 GbE
Rx	1 Rx	RAM	32 GB / 64 GB
Tx	-	Storage	1 / 4 TB
DANL	-165 dBm/Hz	Design	Remote IP66
		SKU#	102/008



RODB 200RA-6

Frequency Band	IQ POI	Sweep Speed	RTBW
9kHz - 6 8GHz	30 ns	3THz/s	2x44MHz
Receiver	1	Network	1 GbE
Rx	2 Rx	RAM	32 GB / 64 GB
Tx	-	Storage	1 / 8 TB
DANL	-168 dBm/Hz	Design	Remote IP66
		SKU#	102/009



RODB 2000RA-6

Frequency Band	IQ POI	Sweep Speed	RTBW
10MHz - 6 8GHz	15/10 ns	730 1100GHz/s	160/245MHz
Receiver	1	Network	1 GbE
Rx	2 Rx	RAM	32 GB / 64 GB
Tx	1 Tx	Storage	1 / 30 TB
DANL	-170 dBm/Hz	Design	Remote IP66
		SKU#	102/010

Real-Time Rack-Mounted Spectrum Analyzers



 19" SPECTRAN® V6 analyzer rack solutions

Real-Time Rack-Mounted Spectrum Analyzers

- HIGH END
- INDOOR
- STATIONARY
- REMOTE
- V6CUSTOMIZED



Our all-inclusive solution is designed to meet all your spectrum monitoring and streaming requirements. With our remote spectrum monitoring capabilities, you can keep a watchful eye on your desired frequency spectrum from anywhere. Our 6GHz IQ real-time spectrum monitoring empowers you with instant insights, allowing you to make informed decisions at lightning speed.

Our 24/7 data streaming feature ensures you never miss a beat, capturing vital data around the clock. Supporting up to 6 freely configurable SPECTRAN® V6 Real-Time Spectrum Analyzers, our solution scales effortlessly to your unique needs. Furthermore, our system is entirely customizable, adapting to your specific workflow.



1RU RSA V6 Spectrum Analyzer
Configurable with any SPECTRAN® V6 Spectrum Analyzer

Receiver	1	Sweep	Up to 3 THz/s
Rx	Up to 2	Network	100 GbE
Tx	Up to 1	Storage	16 TB Highspeed SSD
Rx RTBW	Up to 245 MHz/s	Design	1RU 19" server rack
IQ POI	Up to 10 ns	SKU#	102/XXX



2RU RSA V6 Spectrum Analyzer
Configurable with any SPECTRAN® V6 Spectrum Analyzers

Receiver	2	Sweep	Up to 6 THz/s
Rx	Up to 4	Network	100 GbE
Tx	Up to 2	Storage	? TB Highspeed SSD
Rx RTBW	Up to 490 MHz/s	Design	2RU 19" server rack
IQ POI	Up to 10 ns	SKU#	102/XXX



4RU RSA V6 Spectrum Analyzer
Configurable with any SPECTRAN® V6 Spectrum Analyzers

Receiver	Up to 6	Sweep	Up to 18 THz/s
Rx	Up to 12	Network	100 GbE
Tx	Up to 6	Storage	? TB Highspeed SSD
Rx RTBW	Up to 1.470 MHz/s	Design	4RU 19" server rack
IQ POI	Up to 10 ns	SKU#	102/XXX

Real-Time IQ Recording Spectrum Analyzers



High-end 19" SPECTRAN® V6 IQ recorders

Real-Time IQ Recording Spectrum Analyzers

HIGH END

INDOOR

STATIONARY

REMOTE

V6CUSTOMIZED



IQ Recorder V6 Spectrum Analyzer
Configurable with any SPECTRAN® V6 Spectrum Analyzers

Receiver	Up to 10	IQ POI	Up to 10 ns	Storage	Up to 1000 TB
Rx	Up to 20	Sweep	Up to 30 THz/s	Design	10RU 19" server rack
Tx	Up to 10	Network	100 GbE	SKU#	102/000
Rx RTBW	Up to 2500 MHz/s				

Elevate your spectrum analysis to new heights with our all-inclusive solution. Enjoy 24/7 IQ data recording and remote real-time spectrum monitoring. It records a continuous stream of IQ (In-phase and Quadrature) data, providing a complete picture of the spectrum. This data captures all signal character-

istics, including amplitude and phase, making it incredibly detailed. The recorded data can be played back in real-time or accelerated time, allowing for detailed analysis, simulation, and decision-making in controlled environments. Scale effortlessly with support

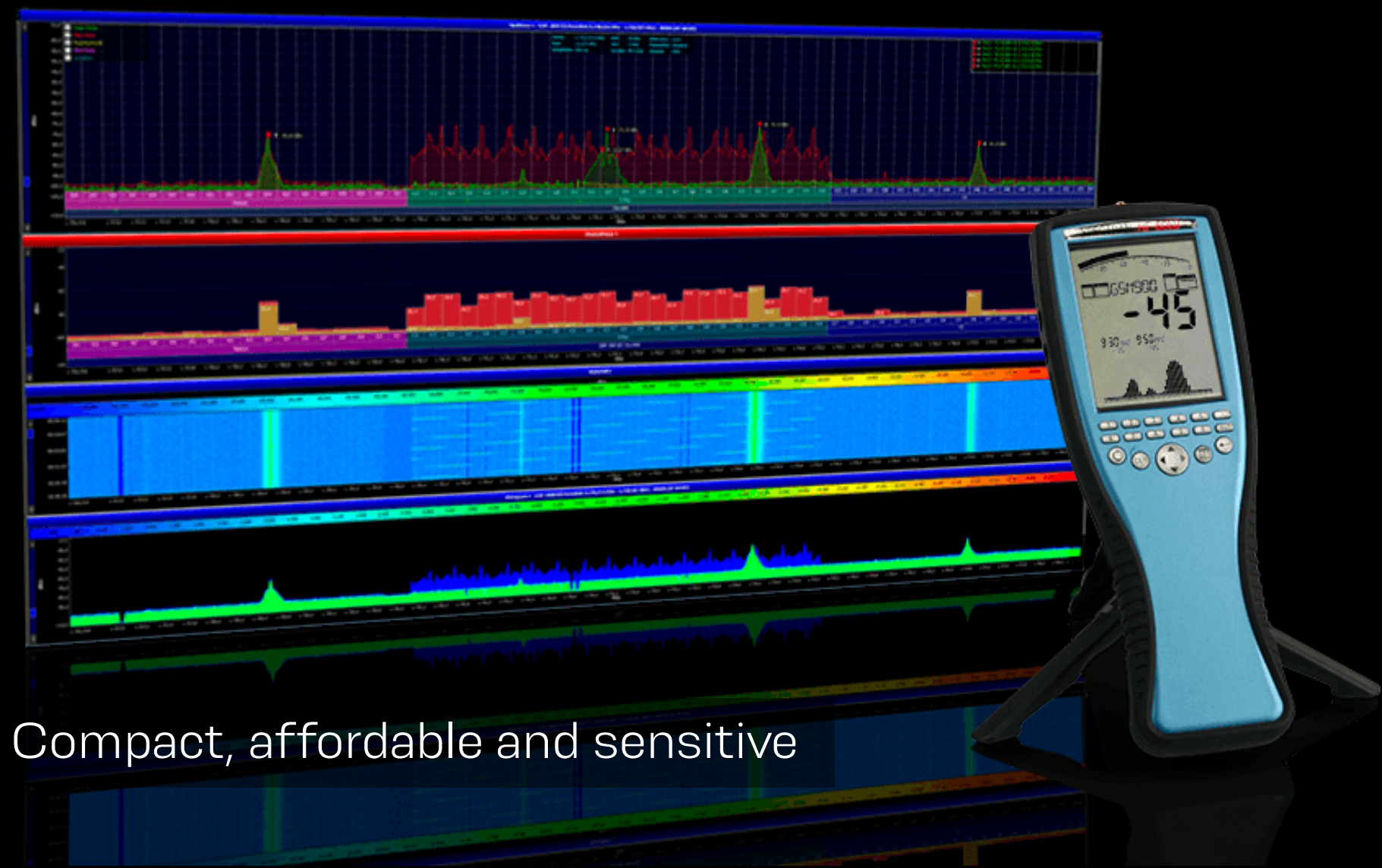
for up to 10 V6 spectrum analyzers and tailor the system to your unique workflow with our fully configurable platform. Enhanced by a high-performance server, our solution ensures you have the power and flexibility you need for unparalleled spectrum management.



IQ Recorder Enterprise V6 Spectrum Analyzer
Configurable with any SPECTRAN® V6 Spectrum Analyzers

Receiver	Up to 6	IQ POI	Up to 10 ns	Storage	Up to 1000 TB
Rx	Up to 12	Sweep	Up to 6.6 THz/s	Design	2RU 19" server rack
Tx	Up to 6	Network	100 GbE	SKU#	102/027
Rx RTBW	Up to 1500 MHz/s				

Sweep Spectrum Analyzers



Compact, affordable and sensitive

Sweep Spectrum Analyzers



SPECTRAN® HF-60100 V4
1MHz (opt. 9kHz) - 9.4GHz

The 9.4 GHz spectrum analyzer for the “pro” at an incredible price, leaving (almost) nothing to be desired. Its incredibly high -170 dBm sensitivity (1Hz @ 3,6 GHz with preamps) sets it worlds apart from even its most current and extremely expensive competitors. But see for yourself. As an option, a vastly enhanced maximum signal level of up to +40 dBm (full ICNIRP) allows measurement of a multitude of signal sources up to 9.4 GHz and calculation of ICNIRP limits.

SKU# 101/006

Hardware Options

- + Frequency extention from 9kHz V4 only
- + 1MB memory expansion



SPECTRAN® NF-5030
1Hz - 1MHz (opt. 20MHz / 30MHz)

AC analog input with high sensitivity (down to 200 nV). Absolutely essential: The high performance multi-channel 65MSPS 12Bit DDC frequency filter (option 005) allows fast, extremely sensitive and super crisp frequency measurement of very weak signals down to 1pT (0.001 nT). Measurement of the 125-135 kHz RFID band (decoder software already in development) and more. By adding the 20 MHz or 30 MHz frequency extensions, complete new applications become possible, e.g. assessment of the 13.56 MHz RFID and VDSL2 frequency bands.

SKU# 101/001

- + Acoustic playback of signal strength V4 only
- + Internal preamp +15dB V4 only

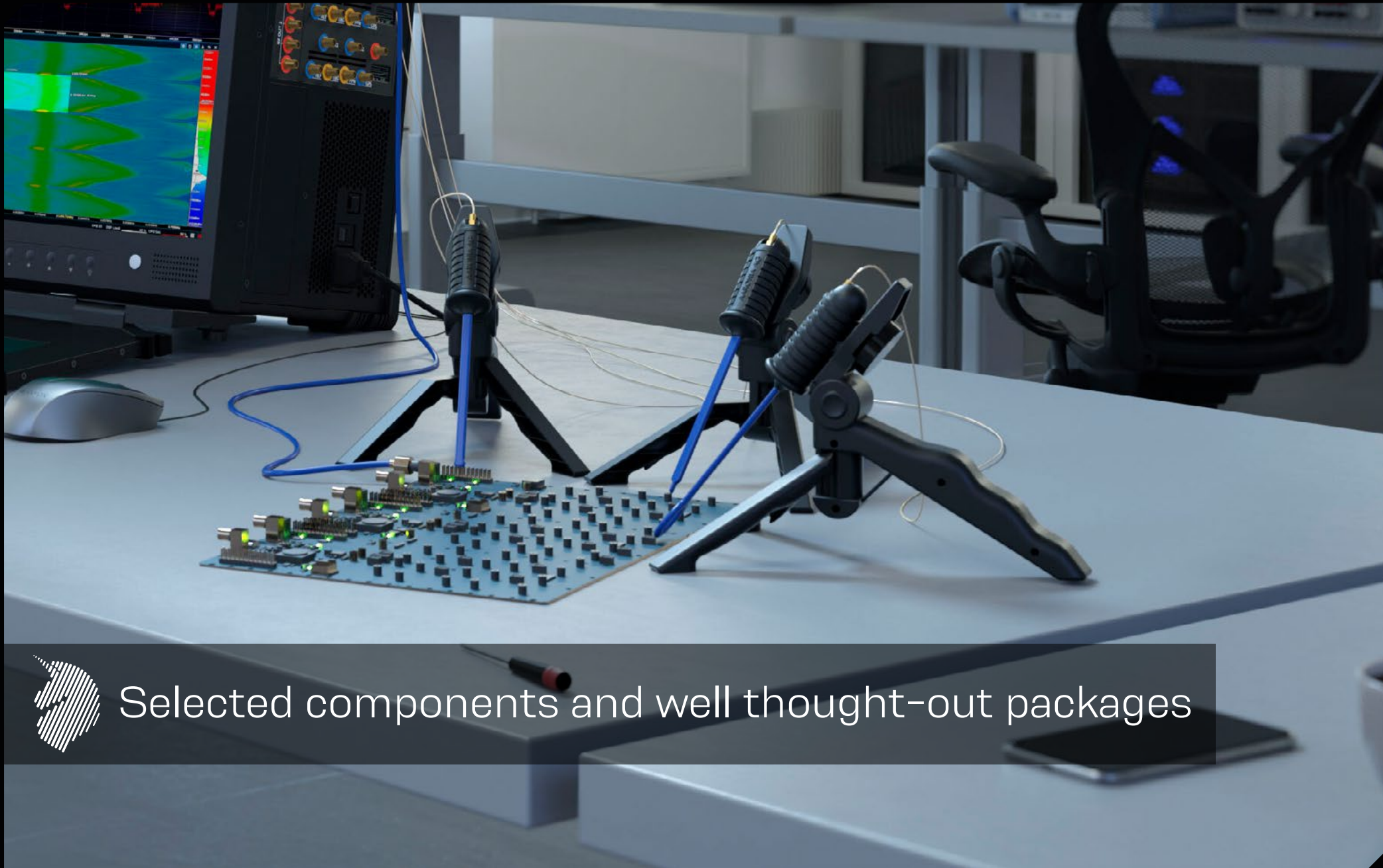


SPECTRAN® NF-5030 S
1Hz - 1MHz (opt. 20MHz / 30MHz)

Our high power spectrum analyzer for the professional at an unbeatable price! Ultra broad range and high accuracy. Frequency range according to complete ICNIRP (public)! Perfect for Pre-Compliance and EMC/EMI tests up to 30 MHz. By adding the 20 MHz or 30 MHz frequency extensions, completely new applications become possible, e.g. assessment of the 13.56 MHz RFID and VDSL2 frequency bands. A MUST-HAVE for EMC measurements. An ideal solution for technicians and authorities for accurate examination of signal sources up to 30 MHz.

SKU# 101/003

- + Broadband Peak Power-Meter V4 only
- + Frequency range to 20/30MHz NF versions only



 Selected components and well thought-out packages



Real-Time EMC Bundle 1 – Near Field
10MHz – 6GHz (opt. 8GHz), u. from 9kHz

- PBS2 case consisting of 5 probes, SMB cable 1m and mini tripod/pistol grip
- SPECTRAN[®] V6 500XA-6 in a box with power supply, 3 USB cables, USB stick

SKU# 104/005



Real-Time EMC Bundle 2 – Far Field
10MHz – 6GHz (opt. 8GHz)

- BicoLOG[®] 20100E in a carrying case
- HyperLOG[®] 6080 case consisting of SMA cable, SMA tool and mini tripod/pistol grip
- SPECTRAN[®] V6 500XA-6 in a box with power supply, 3 USB cables, USB stick

SKU# 104/006



Real-Time EMC Bundle 3 – Near/Far
10MHz – 6GHz (opt. 8GHz), u. from 9kHz

- BicoLOG[®] 20100E in a carrying case
- HyperLOG[®] 6080 case consisting of SMA cable, SMA tool and mini tripod/pistol grip
- PBS1 case consisting of 5 probes, SMB cable 1m and mini tripod/pistol grip
- SPECTRAN[®] V6 500XA-6 in a box with power supply, 3 USB cables, USB stick

SKU# 104/007

The Aronia real-time EMC measurement instrument packages enable EMC diagnostics in a completely new way, even during product design. For example, shielding problems can be localized and the success of countermeasures can be analyzed in real time. This significantly reduces the time and thus also the financial effort in product development.

Based on a completely new method of spectrum analysis, Aronia measurement devices enable RF and EMC real-time measurement at a spectacular price. With a real-time bandwidth of min. 80MHz, unrivaled in its class, finding even extremely short duration interfering signals and their cause is no longer a problem. The determination of fre-

quency and signal strength as well as the simultaneous display of several limit values significantly increases the speed of the measurement. Thus, Aronia spectrum analyzers contribute decisively to the timely and EMC-compliant development of new products. All SPECTRANs and all antennas are developed, individually manufactured and calibrated at Aronia in Germany.

Solutions and Bundles



Pro Bundle
1Hz -1MHz / 1MHz - 9.4GHz

- Spectran® NF-5030 incl. option 005
- Spectran® HF-60100 V4 incl. option 020
- HyperLOG® 60100

SKU# 104/001



EMC Bundle 1 (near-field)
1Hz - 9.4GHz

- SPECTRAN® NF-5030
- SPECTRAN® HF-60100 V4
- HyperLOG® 60100
- PBS2 active probe set with 5 probes + preamp

SKU# 104/002



EMC Bundle 2 (far-field)
1Hz - 9.4GHz

- SPECTRAN® NF-5030
- SPECTRAN® HF-60100 V4
- HyperLOG® 60100
- BicoLOG® 30100E

SKU# 104/003



EMC Bundle 3 (near/far)
1Hz - 9.4GHz

- SPECTRAN® NF-5030
- SPECTRAN® HF-60100 V4
- HyperLOG® 60100
- BicoLOG® 20100E
- PBS2 active probe set with 5 probes + preamp

SKU# 104/004

Based on a completely new method of spectrum analysis, Aaronia measuring instruments enable RF and EMC measurements at a spectacular price.

Finding sources of interference and their causes, determining frequency and signal strength,

measuring and evaluating even the most complex limit values - all this is easily possible with Aaronia spectrum analysers.

All SPECTRAN® handhelds offer a high performance limit value display. A single keystroke is all it takes for the high-performance digital

signal processor (DSP) to calculate the limit values and show the results on the display in real time. This function is unique for spectrum analyzers in this price range.

Award in the field of "passive components": All SPECTRAN® NF are equipped with the

award winning Aaronia REAL 3D (isotropic) magnetic field sensor. In 2009, Europe's most popular electronics magazine "Elektronik" awarded the Aaronia REAL 3D (isotropic) magnetic field sensor as "Product of the Year" in the category "Passive Components".

Solutions and Bundles



Site Survey Bundle 1
10 MHz - 3 GHz | RTBW 80 MHz

- SPECTRAN® V6 PLUS 250XA-6 incl. Option 0401 GPS
- **IsoLOG® 3D Mobile 9030 PRO** with N/SMA adapter
- Two power supplies
- USB cable
- Pistol grip
- GPS antenna with 5m cable

SKU# 104/008



Site Survey Bundle 2
10 MHz - 6 GHz | RTBW 80 MHz

- SPECTRAN® V6 PLUS 250XA-6 incl. Option 0401 GPS
- **IsoLOG® 3D Mobile 9060 PRO** with N/SMA adapter
- Two power supplies
- USB cable
- Pistol grip
- GPS antenna with 5m cable

SKU# 104/009



Site Survey Bundle 3
10 MHz - 8 GHz | RTBW 80 MHz

- SPECTRAN® V6 PLUS 250XA-6 incl. Option 0401 GPS and **Option 6080 Frequency Extension**
- **IsoLOG® 3D Mobile 9080 PRO** with N/SMA adapter
- Two power supplies
- USB cables
- Pistol grip
- GPS antenna with 5m cable

SKU# 104/010

Combining our ultra-fast yet lightweight SPECTRAN® V6 PLUS spectrum analyzer with the perfectly matching isotropic handheld antenna IsoLOG® 3D Mobile PRO incl. all needed accessories in a robust outdoor case creates the perfect bundle for signal analysis and testing out in the field.

SPECTRAN® V6 PLUS sets new standards in the USB compact class with a sweep speed of over 1 THz/s. Our user-friendly soft-

ware detects unknown or illegal transmissions over a wide frequency range. Helpful features such as a 3D spectrogram view displaying the signal in a unique manner, allow for a deep-dive analysis of the real-time measurement or recorded data. Depending on the laptop used, the system can store several hours of real-time or sweep recordings and also offers an autorotate function for virtually unlimited recording time. Once recorded, the

entire measurement data can be converted into the software. Although spectrum monitoring usually consumes a large amount of power, the SPECTRAN® V6 (in combination with our Powerbank, optionally integrable) can run for hours in a completely portable setup. The Powerbank is specially designed for the SPECTRAN® V6 and provides the required voltage and power, and up to two additional devices can be supplied via USB.

Additional components



Directional Coupler
50MHz - 6000MHz

Connectors	SMA (f)
Impedance	50 Ohm
Coup. flatness	± 0.45dB
Directivity	up to 33dB
VSWR(typ.)	1.2:1
Insertion loss	2dB
Op. temp.	-40 to 85°C
Design	USB Desktop
SKU#	502/017

High-directivity directional coupler. Provides outstanding directivity and excellent coupling flatness from 50 to 6000 MHz, making S-parameter measurements and intermodulation measurements as well as other test and system applications possible.



Splitter / Combiner
400MHz - 8GHz | 700MHz - 6GHz | DC - 8GHz

Connectors	SMA (f)
Impedance	50 Ohm
Power handling	2W
Amp. balance	± 0.8 dB
Isolation	≥ 6 dB
Insertion loss	≤ 15 - 20 dB
Design	USB Desktop
SKU#	Various

External 4- or 6-way low-loss splitter/combiner (e.g. stitch multiple V6 units to expand the real-time bandwidth). Automatically locking and stackable on SPECTRAN® V6 devices, RF-over-Fiber-converter-systems and V6 powerbanks.



Active Splitter / Combiner
400MHz - 8GHz | 700MHz - 6GHz | DC - 8GHz

Connectors	SMA (f)
Impedance	50 Ohm
Power handling	2W
Amp. balance	± 0.8 dB
Isolation	≥ 6 dB
Insertion loss	≤ 0 - 5 dB
Design	USB Desktop
SKU#	Various

Active external 4- or 6-way low-loss splitter/combiner (e.g. stitch multiple V6 units to expand the real-time bandwidth). Automatically locking and stackable on SPECTRAN® V6 devices, RF-over-Fiber-converter-systems and V6 powerbanks.

Additional components



Broadband Power Amplifier
10MHz to 70GHz | 50dB Gain

Connectors	1.85 mm (V)
Impedance	50 Ohm
Gain	Typ. 50 dB
Psat	+15 dBm
NF (1-50GHz)	6 dB
I/O Return Loss	-5 dB
Design	USB Desktop
SKU#	?

With an impressive 50dB gain, this compact amplifier delivers unparalleled power across a wide frequency range, ensuring optimal performance in diverse applications. Ideal for demanding environments, our amplifier is engineered to provide reliable and consistent signal amplification, making it a valuable asset in research, communication, and testing scenarios.



RF over Fiber
10MHz to 4 | 6 | 10 | 16GHz

Cable damping is a thing of the past! Aaronia's RF over Fiber solution impresses with its extremely high dynamics and linear frequency response. This makes it possible for the first time to transmit RF signals quasi 1:1 via fiber optics. This allows cable lengths of up to 100km to be achieved. Additionally, a galvanic separation between transmitter and receiver is achieved. Automatically locking and stackable on SPECTRAN® V6 devices, 4-way splitter/combiner and V6 powerbanks. Requires "OS2 Single Mode" fiber optics with "FC/APC connectors".
SKU# various



SPECTRAN® V6 Powerbank
26800mAh

The Aaronia Powerbank with its 26800mAh allows a high run-time extension of the SPECTRAN® V6 with a laptop. The battery of the laptop is conserved because the SPECTRAN® V6 is only operated via the powerbank. The powerbank is specially designed for the SPECTRAN® V6 and provides the required voltage and power, and up to two additional devices can be supplied via USB. Allows a runtime of the SPECTRAN® V6 of up to 4-5 hours. Automatically locking and stackable on SPECTRAN® V6 devices, V6 powerbanks, RF-over-Fibre-converter-systems and 4-way splitter/combiner.
SKU# 503/022



 USB desktop SPECTRAN[®] V6
vector signal generators



VSG 50A-6

Frequency Band	Power	Sweep Speed	RTBW
9 kHz - 6 GHz	+20 dBm	500GHz/s	44MHz

Tx	1 Tx	The SPECTRAN [®] V6 VSG44 offer up to 44MHz instantaneous streaming bandwidth (complex I/Q) as a vector signal generator/tracking generator from 9kHz to 6 8GHz. The following modulations are already included and can be used out-of-the-box: Sweep, Noise, Pulse, FSK, QAM, OFDM, Echo/Reflection
Tx RTBW	44MHz	
Max. Power	+20 dBm	
Sweep	500GHz/s	
Weight	850 g	
Design	USB Desktop	
SKU#	401/007	



VSG 120A-6

Frequency Band	Power	Sweep Speed	RTBW
75 MHz - 6 GHz	+20 dBm	440GHz/s	120MHz

Tx	1 Tx	The SPECTRAN [®] V6 VSG120 offer up to 120MHz (via 2xUSB) instantaneous streaming bandwidth (complex I/Q) as a vector signal generator/tracking generator from 75MHz to 6GHz. The following modulations are already included and can be used out-of-the-box: Sweep, Noise, Pulse, FSK, QAM, OFDM, Echo/Reflection
Tx RTBW	120MHz	
Max. Power	+20 dBm	
Sweep	440GHz/s	
Weight	850 g	
Design	USB Desktop	
SKU#	401/005	



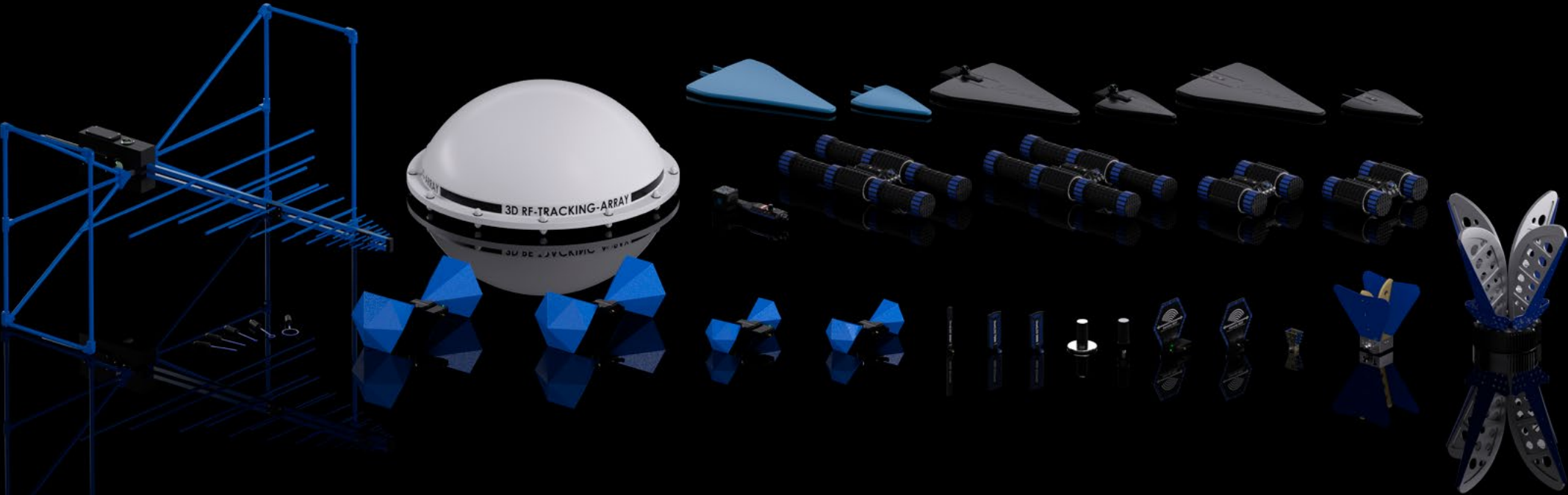
VSG 240A-6

Frequency Band	Power	Sweep Speed	RTBW
75 MHz - 6 GHz	+20 dBm	1100GHz/s	240MHz

Tx	1 Tx	The SPECTRAN [®] V6 VSG240 offer up to 240MHz (via 2xUSB) instantaneous streaming bandwidth (complex I/Q) as a vector signal generator/tracking generator from 75MHz to 6GHz. The following modulations are already included and can be used out-of-the-box: Sweep, Noise, Pulse, FSK, QAM, OFDM, Echo/Reflection
Tx RTBW	240MHz	
Max. Power	+20 dBm	
Sweep	1100GHz/s	
Weight	850 g	
Design	USB Desktop	
SKU#	401/006	

Aaronia Antennas

All antennas listed in this catalog are color-coded to help you find the ideal spectrum analyzer to match. The "ideal choice" covers the complete frequency range of the respective antenna, with "limited usage" only a restricted range is available. Aaronia AG specializes in the development and construction of quality antennas of all types. With the antennas developed and manufactured in Germany, almost all measurement scenarios can thus be served. This includes, for example, measurements in the field, EMC measurements in the laboratory, but also very special and unique solutions such as IsoLOG® 3D tracking antennas, which are also used for the AARTOS drone detection system developed by Aaronia. Here, Aaronia AG guarantees the highest quality at reasonable conditions.



Directional	DF Tracking	Omnidirectional / Biconical	3D Isotropical	EMC / EMI	Probes
• 9 kHz to 40 GHz • Various designs • Unrivald bandwidth • High directivity and gain • For the laboratory and in the field	• 400 MHz to 18 GHz • 3D tracking antennas • Cost-effective and powerful • Real-time signal monitoring • Direction finding • Geolocation	• 20 MHz to 18 GHz • Cost-effective broadband antennas • Omnidirectional / biconical • Constant gain	• 9 kHz to 8 GHz • 3D measurements • Integrated preamplifiers • High gain and low noise	• 20 MHz to 8 GHz • Professional EMC pre-compliance test antennas • Unsurpassed accuracy • Very high gain	• DC to 9 GHz • Pinpoint measurements of interference sources • Estimate intereference field strengths, check shieldings and filter measures

Sniffer & Probes

Suited for: ECO PLUS 5G XPLOER Ideal choice Limited usage



Probe / EMC Sniffer Set PBS 1	
DC - 9GHz	
Connector	SMB (f)
SKU#	203/002

Our EMC near field probe set for every spectrum analyzer and oscilloscope allows for straightforward pinpointing and measurement of interference sources from DC to 6GHz in electronic component groups as well as execution and monitoring of generic EMC measurement.

Our sniffer set includes a total of 5 probes: 4 probes for magnetic field measurement and one for measurement of electric fields. All probes are covered with an insulating layer, thus allowing safe measurement of oscillators or mains lines. Perfect for locating interference sources

Probe Set PBS 2	
Passive: DC - 9GHz Active: 1MHz - 9GHz	
Connector	SMB (f)
SKU#	205/003

which might have been found e.g. in an EN55011, EN55022 or EN50371 (Class A or Class B) survey. After implementing appropriate changes in the circuit, their efficiency can easily and reliably be verified. That way, expensive and time-consuming re-assessments in an EMC laboratory

RF Satellite Test Probe	
5MHz - 2500MHz	
Dimensions	50x58x14 mm
SKU#	203/004

The RF Satellite Test Probe allows direct measurement at the LNB output or at the satellite receiver. The measurement can be performed with simultaneous use of the connection, the probe offers two separate signal outputs for the connected spectrum analyzer as well as the receiver. This allows a signal evaluation and recording during normal operation. The built-in DC blocker suppresses DC voltage which would be dangerous for connected spectrum analyzers. The package includes the necessary accessories (SMA to F adapter, 0.3m SMA cable, 1.5m F cable) for direct connection of the measuring device and the receiver.

PowerLOG® Antennas

The PowerLOG® series is suitable for both transmitting and receiving purposes. Due to the very high maximum transmit power of up to 500W (peak), the PowerLOG® series is particularly suitable for EMC or interference emission measurements. The delivery of each Aaronia PowerLOG® antenna includes the complete high resolution calibration data with a high number of calibration points (certificate and download link to Excel file included).

PowerLOG® PRO

The double polarized quad-ridged horn antennas of the PowerLOG® PRO series are characterized by enormous broadband and very high transmit power. The gain increases with increasing frequency up to max. approx. 14 dBi and generates a constant field strength virtually independent of frequency. This predestines the PowerLOG® PRO especially for EMI compliance tests, since the amplifier does not have to be readjusted depending on the frequency, which saves considerable calibration and measurement effort. Another special feature of the PowerLOG® PRO is its two inputs. This allows a horizontally or vertically polarized measurement without the need for an error-prone reconfiguration of the antenna.

PowerLOG®

The horn antennas of the standard PowerLOG® series are characterized by enormous broadband and very high input power. The gain increases with increasing frequency up to max. approx. 17 dBi. This gain increase compensates for the increasing cable losses at higher frequencies.



PowerLOG® PRO 30300 EMI
Double Pole Broadband Horn - 300MHz - 3GHz

Input level	500W (CW)	Connector	2x N (f)
Active	No	Dimensions	510x507x507 mm
Gain (max.)	14 dBi	SKU#	205/004

PowerLOG® PRO 30600 EMI
Double Pole Broadband Horn - 300MHz - 6GHz

Input level	500W (CW)	Connector	2x N (f)
Active	No	Dimensions	510x507x507 mm
Gain (max.)	12 dBi	SKU#	205/006

PowerLOG® PRO 30800 EMI
Double Pole Broadband Horn - 300MHz - 8GHz

Input level	500W (CW)	Connector	2x N (f)
Active	No	Dimensions	510x507x507 mm
Gain (max.)	14 dBi	SKU#	205/005

Suited for: ECO PLUS 5G XPLORER Ideal choice Limited usage

PowerLOG® 10800
Broadband Horn - 1GHz - 8GHz

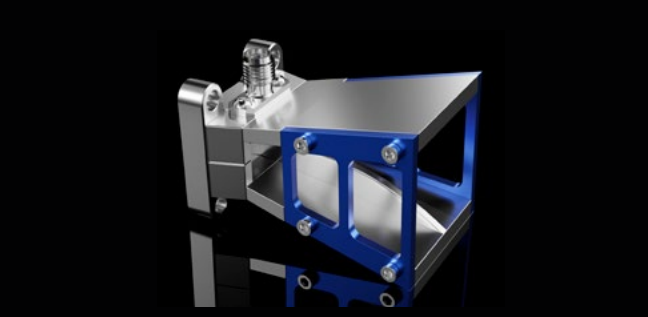
Input level	400W (peak)	Connector	N (f)
Active	No	Dimensions	135x252x175 mm
Gain (max.)	13 dBi	SKU#	205/001

PowerLOG® 70180
Broadband Horn - 700MHz - 18GHz

Input level	500W (peak)	Connector	N (f)
Active	No	Dimensions	135x252x175 mm
Gain (max.)	17 dBi	SKU#	205/002

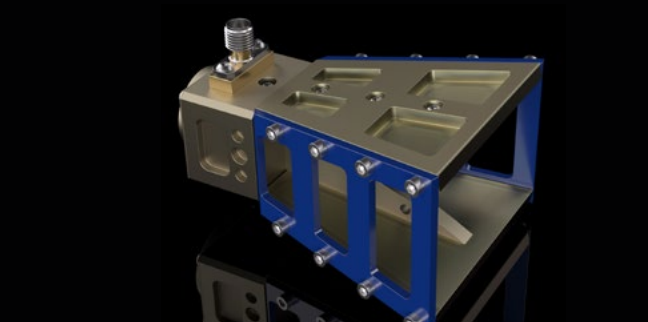
PowerLOG® / Magnetic Field Antennas

Suited for: ECO PLUS 5G XPLORER Ideal choice Limited usage



PowerLOG® 50700
Ultra Wideband Waveguide Horn - 5GHz - 70GHz

Input level	50W (peak)	Connector	1.85mm V (f)
Active	No	Dimensions	32x34x50 mm
Gain (max.)	25 dBi	SKU#	205/007



PowerLOG® 40400
Broadband Microwave Horn - 14GHz - 18GHz

Input level	300W (peak)	Connector	K 2.92mm (f)
Active	No	Dimensions	74x55x38 mm
Gain (max.)	17 dBi	SKU#	205/003



MDF 560
Magnetic Field DF Antenna - 500kHz - 60 MHz

Active	No	Connector	SMA (f)
Gain (max.)	-60 dBi	SKU#	206/005

MDF 9400
Magnetic Field DF Antenna - 9kHz - 400 MHz

Active	No	Connector	SMA (f)
Gain (max.)	-60 dBi	SKU#	206/006

MDF 930X
Active Magnetic Field DF Antenna - 9kHz - 30 MHz

Active	Yes	Connector	SMA (f)
Gain (max.)	-30 dBi	SKU#	206/007

MDF 960X
Active Magnetic Field DF Antenna - 9kHz - 60 MHz

Active	Yes	Connector	SMA (f)
Gain (max.)	-35 dBi	SKU#	206/008

MDF 504000X
Active Magnetic Field DF Antenna - 500kHz - 400 MHz

Active	Yes	Connector	SMA (f)
Gain (max.)	-20 dBi	SKU#	206/009



MagnoTRACKER LF-2
Active Magnetic Field DF Antenna - 9kHz - 1MHz

Active	Yes	Connector	SMA (f)
Gain (max.)	35 dBi	SKU#	206/001

MagnoTRACKER ELF-2
Active Magnetic Field DF Antenna - 1Hz - 9kHz

Active	Yes	Connector	SMA (f)
Gain (max.)	35 dBi	SKU#	206/003

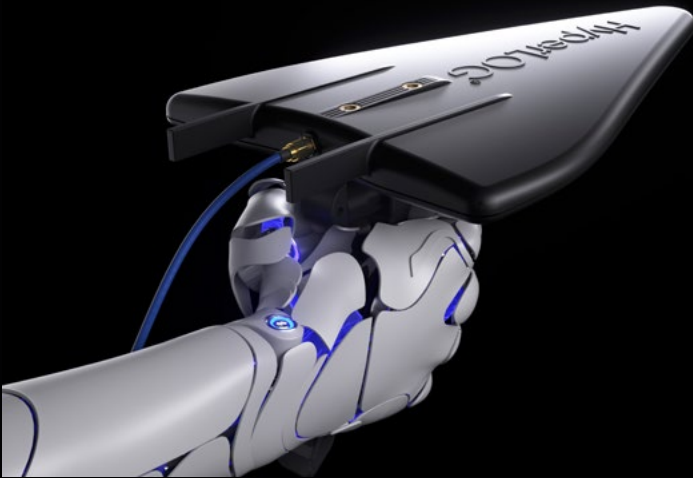
MagnoTRACKER LF-6
Active Magnetic Field DF Antenna - 9kHz - 1MHz

Active	Yes	Connector	SMA (f)
Gain (max.)	35 dBi	SKU#	206/002

MagnoTRACKER ELF-6
Active Magnetic Field DF Antenna - 1Hz - 9kHz

Active	Yes	Connector	SMA (f)
Gain (max.)	35 dBi	SKU#	206/004

HyperLOG® PRO Antennas



The powerful directional antennas of the HyperLOG® PRO series are a further development of the well-known and popular HyperLOG® antennas. They have been significantly improved again in terms of performance, directionality and frequency range.

The excellent performance data of the HyperLOG® PRO antenna series can be impressively underpinned by an optional measurement certificate with a large number of measurement points. The HyperLOG® PRO antennas are therefore especially predestined as high-quality measurement antennas for the laboratory, but also for portable measurements or as DF antennas.

Each HyperLOG® PRO antenna is extensively measured in our laboratories before delivery. The high-tech housing (radome) is designed to protect against mechanical damage and environmental influences and can optionally be delivered as a waterproof version (IP65) for outdoor applications. Additionally, a high-quality 1/4" thread for tripod mounting is integrated.



HyperLOG® PRO 18200

High Performance DF Antenna - 2GHz - 20GHz ECOPLUS

Active	No	Connector	2.92 mm K (f)
Gain (max.)	11 dBi	SKU#	201/043



HyperLOG® PRO 7080

High Performance DF Antenna - 700MHz - 8GHz ECOPLUS

Active	No	Connector	SMA (f)
Gain (max.)	11 dBi	SKU#	201/044



HyperLOG® PRO 18250

High Performance DF Antenna - 2GHz - 25GHz ECOPLUS

Active	No	Connector	2.92 mm K (f)
Gain (max.)	11 dBi	SKU#	201/037



HyperLOG® PRO 70140

High Performance DF Antenna - 700MHz - 14GHz ECOPLUS

Active	No	Connector	SMA (f)
Gain (max.)	13 dBi	SKU#	201/045



HyperLOG® PRO 18300

High Performance DF Antenna - 2GHz - 30GHz ECOPLUS

Active	No	Connector	2.92 mm K (f)
Gain (max.)	11 dBi	SKU#	201/038



HyperLOG® PRO 70200

High Performance DF Antenna - 700MHz - 20GHz ECOPLUS

Active	No	Connector	SMA (f)
Gain (max.)	13 dBi	SKU#	201/046



HyperLOG® PRO 18350

High Performance DF Antenna - 2GHz - 35GHz ECOPLUS

Active	No	Connector	2.92 mm K (f)
Gain (max.)	11 dBi	SKU#	201/039



HyperLOG® PRO 70260

High Performance DF Antenna - 700MHz - 26.5GHz ECOPLUS

Active	No	Connector	2.92 mm K (f)
Gain (max.)	13 dBi	SKU#	201/050



HyperLOG® PRO 18400

High Performance DF Antenna - 2GHz - 40GHz ECOPLUS

Active	No	Connector	2.92 mm K (f)
Gain (max.)	12 dBi	SKU#	201/040

HyperLOG® (PRO) Antennas



HyperLOG® PRO 7080X

Active High Perf. DF Antenna - 700MHz - 8GHz

Active

Yes

Connector

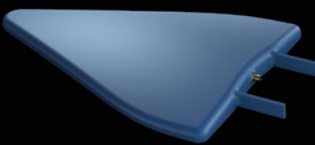
2.92 mm K (f)

Gain (max.)

11 dBi

SKU#

201/047



HyperLOG® 7025

Low Cost LogPer Antenna - 700MHz - 2.5GHz

Active

No

Connector

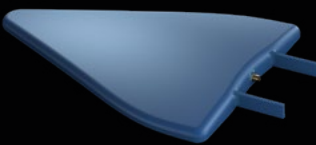
SMA (f)

Gain (max.)

5 dBi

SKU#

201/001



HyperLOG® 6080

Low Cost LogPer Antenna - 680MHz - 8GHz

Active

No

Connector

SMA (f)

Gain (max.)

6 dBi

SKU#

201/004



HyperLOG® PRO 70140X

Active High Perf. DF Antenna- 700MHz - 14GHz

Active

Yes

Connector

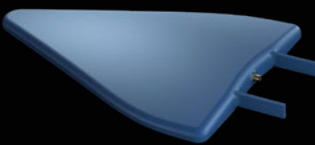
2.92 mm K (f)

Gain (max.)

11 dBi

SKU#

201/047



HyperLOG® 7040

Low Cost LogPer Antenna - 700MHz - 4GHz

Active

No

Connector

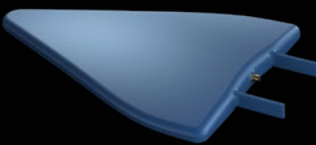
SMA (f)

Gain (max.)

5 dBi

SKU#

201/002



HyperLOG® 60100

Low Cost LogPer Antenna - 680MHz - 10GHz

Active

No

Connector

SMA (f)

Gain (max.)

6 dBi

SKU#

201/005



HyperLOG® PRO 70200X

Active High Perf. DF Antenna - 700MHz - 20GHz

Active

Yes

Connector

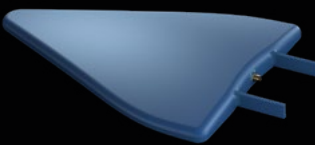
2.92 mm K (f)

Gain (max.)

11 dBi

SKU#

201/049



HyperLOG® 7060

Low Cost LogPer Antenna - 700MHz - 6GHz

Active

No

Connector

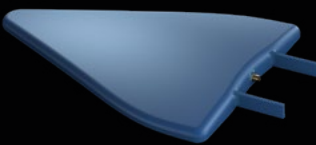
SMA (f)

Gain (max.)

5 dBi

SKU#

201/003



HyperLOG® 60180

Low Cost LogPer Antenna - 680MHz - 18GHz

Active

No

Connector

SMA (f)

Gain (max.)

6 dBi

SKU#

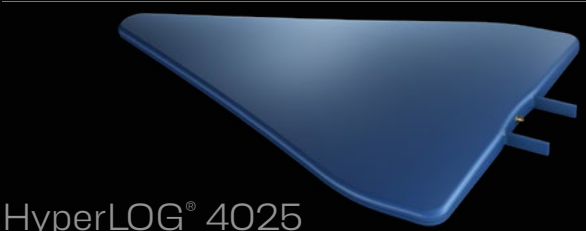
201/006

With the HyperLOG® series, Aaronia offers top-class passive directional antennas. The HyperLOG® series supports an extremely wide frequency range from 380 MHz to 35 GHz. This allows the antennas to be used for measuring Tetra/BOS, directional radio, various satellite applications, etc. Each HyperLOG®

antenna undergoes rigorous testing in our laboratories before shipping and is equipped with a high-quality gold coating, a high-tech antenna housing (radome) to protect against mechanical damage and environmental influences, an integrated tripod connector and an SMA connector with over-rotation protection.

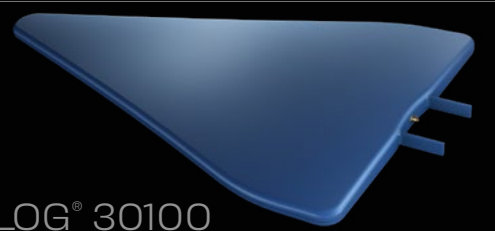
HyperLOG® Antennas

Suited for: ECO PLUS 5G XPLORER | Ideal choice Limited usage



HyperLOG® 4025
Low Cost UWB DF Antenna - 400MHz - 2.5GHz

Active	No	Connector	SMA (f)
Gain (max.)	5 dBi	SKU#	201/009



HyperLOG® 30100
UWB DF Antenna - 380MHz - 10GHz

Active	No	Connector	SMA (f)
Gain (max.)	5 dBi	SKU#	201/013



HyperLOG® 7025X BPA
Active Bypass DF Antenna - 700MHz - 2.5GHz

Active	Yes (with bypass)	Connector	SMA (f)
Gain (max.)	26 dBi	SKU#	201/029

HyperLOG® 4040
Low Cost UWB DF Antenna - 400MHz - 4GHz

Active	No	Connector	SMA (f)
Gain (max.)	5 dBi	SKU#	201/010

HyperLOG® 30180
UWB DF Antenna - 380MHz - 18GHz

Active	No	Connector	SMA (f)
Gain (max.)	5 dBi	SKU#	201/014

HyperLOG® 7040X BPA
Active Bypass DF Antenna - 700MHz - 4GHz

Active	Yes (with bypass)	Connector	SMA (f)
Gain (max.)	26 dBi	SKU#	201/030

HyperLOG® 4060
Low Cost UWB DF Antenna - 400MHz - 6GHz

Active	No	Connector	SMA (f)
Gain (max.)	5 dBi	SKU#	201/011

HyperLOG® 30250
UWB DF Antenna - 380MHz - 25GHz

Active	No	Connector	SMA (f)
Gain (max.)	5 dBi	SKU#	201/015

HyperLOG® 7060X BPA
Active Bypass DF Antenna - 700MHz - 6GHz

Active	Yes (with bypass)	Connector	SMA (f)
Gain (max.)	26 dBi	SKU#	201/031

HyperLOG® 3080
Low Cost UWB DF Antenna - 380MHz - 8GHz

Active	No	Connector	SMA (f)
Gain (max.)	6 dBi	SKU#	201/012

HyperLOG® 30350
UWB DF Antenna - 380MHz - 35GHz

Active	No	Connector	SMA (f)
Gain (max.)	6 dBi	SKU#	201/016

All HyperLOG® X BPA antennas are equipped with an extremely low noise bypass preamplifier (typ. 1.4dB). This means they can be operated either with an active preamplifier with integrated rechargeable battery (runtime approx. 3-4 hours or permanently via an enclosed power supply) or as a passive antenna.

HyperLOG® Antennas

Suited for: ECO PLUS 5G XPLORER | Ideal choice Limited usage



HyperLOG® 4025X BPA
Active Bypass LogPer Antenna - 400MHz - 2.5GHz

Active	Yes (with bypass)	Connector	SMA (f)
Gain (max.)	26 dBi	SKU#	201/032



HyperLOG® 7025X
Active LogPer Antenna - 700MHz - 2.5GHz

Active	Yes	Connector	SMA (f)
Gain (max.)	45 dBi	SKU#	201/017



HyperLOG® 6080X
Active LogPer Antenna - 680MHz - 8GHz

Active	Yes	Connector	SMA (f)
Gain (max.)	45 dBi	SKU#	201/020

HyperLOG® 4040X BPA
Active Bypass LogPer Antenna - 400MHz - 4GHz

Active	Yes (with bypass)	Connector	SMA (f)
Gain (max.)	26 dBi	SKU#	201/033

HyperLOG® 7040X
Active LogPer Antenna - 700MHz - 4GHz

Active	Yes	Connector	SMA (f)
Gain (max.)	45 dBi	SKU#	201/018

HyperLOG® 60100X
Active LogPer Antenna - 680MHz - 10GHz

Active	Yes	Connector	SMA (f)
Gain (max.)	45 dBi	SKU#	201/021

HyperLOG® 4060X BPA
Active Bypass LogPer Antenna - 400MHz - 6GHz

Active	Yes (with bypass)	Connector	SMA (f)
Gain (max.)	26 dBi	SKU#	201/034

HyperLOG® 7060X
Active LogPer Antenna - 700MHz - 6GHz

Active	Yes	Connector	SMA (f)
Gain (max.)	45 dBi	SKU#	201/019

HyperLOG® 60200X
Active LogPer Antenna - 680MHz - 20GHz

Active	Yes	Connector	SMA (f)
Gain (max.)	21 dBi	SKU#	201/022

With the HyperLOG® X series, Aaronia offers low-cost active directional antennas that nevertheless meet the highest requirements. The HyperLOG® X series supports a wide frequency range from 380 MHz to 20 GHz. This means that the antennas can be used for measuring (active) radar, cellular radio, WLAN, Bluetooth, etc. Each HyperLOG® antenna undergoes rigorous testing in our laboratories before shipping and is equipped with a high-quality gold coating, a high-tech antenna housing (radome) to protect against mechanical damage and environmental influences, an integrated tripod connector and an SMA connector with over-rotation protection.

With the HyperLOG® X series, Aaronia offers low-cost active directional antennas that nevertheless meet the highest requirements. The HyperLOG® X series supports a wide frequency range from 380 MHz to 20 GHz. This means that the antennas can be used for measuring (active) radar, cellular radio, WLAN, Bluetooth, etc. Each HyperLOG® antenna undergoes rigorous testing in our laboratories before shipping and is equipped with a high-quality gold coating, a high-tech antenna housing (radome) to protect against mechanical damage and environmental influences, an integrated tripod connector and an SMA connector with over-rotation protection.

HyperLOG® Antennas

Suited for: ECO PLUS 5G XPLOER Ideal choice Limited usage



HyperLOG® 4025X
Active UWB DF Antenna - 400MHz - 2.5GHz

Active	Yes	Connector	SMA (f)
Gain (max.)	45 dBi	SKU#	201/023



HyperLOG® 3080X
Active UWB DF Antenna - 380MHz - 8GHz

Active	Yes	Connector	SMA (f)
Gain (max.)	45 dBi	SKU#	201/026

HyperLOG® 4040X
Active UWB DF Antenna - 400MHz - 4GHz

Active	Yes	Connector	SMA (f)
Gain (max.)	45 dBi	SKU#	201/024

HyperLOG® 30100X
Active UWB DF Antenna - 380MHz - 10GHz

Active	Yes	Connector	SMA (f)
Gain (max.)	45 dBi	SKU#	201/027

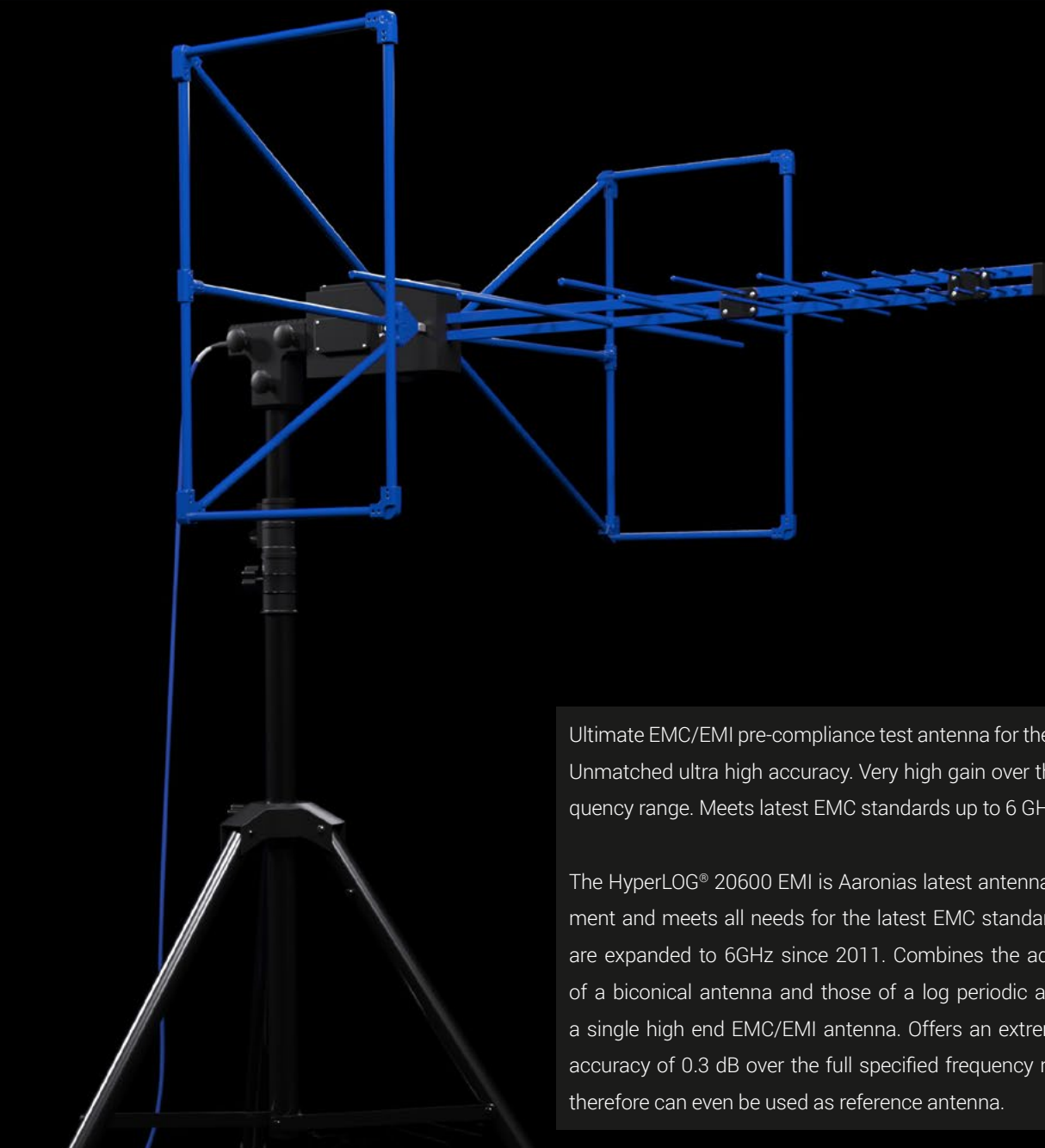
HyperLOG® 4060X
Active UWB DF Antenna - 400MHz - 6GHz

Active	Yes	Connector	SMA (f)
Gain (max.)	45 dBi	SKU#	201/025

HyperLOG® 30200X
Active UWB DF Antenna - 380MHz - 20GHz

Active	Yes	Connector	SMA (f)
Gain (max.)	21 dBi	SKU#	201/028

With the HyperLOG® X series, Aaronia offers low-cost active directional antennas that nevertheless meet the highest requirements. The HyperLOG® X series supports a wide frequency range from 380 MHz to 20 GHz. This means that the antennas can be used for measuring (active) radar, cellular radio, Wi-Fi, Bluetooth, etc. Each HyperLOG® antenna undergoes rigorous testing in our laboratories before shipping and is equipped with a high-quality gold coating, a high-tech antenna housing (radome) to protect against mechanical damage and environmental influences, an integrated tripod connector and an SMA connector with over-rotation protection.



HyperLOG® EMI Antennas

Suited for: ECO PLUS 5G XPLOER Ideal choice Limited usage

HyperLOG® 20300 EMI
High Performance EMC Antenna - 20MHz - 3GHz

Active	No	Mount	Tripod adapter
Gain (max.)	8 dBi	Dimensions	130x117x59.5 cm
Connector	N (f)	SKU#	201/035

HyperLOG® 20600 EMI
High Performance EMC Antenna - 20MHz - 6GHz

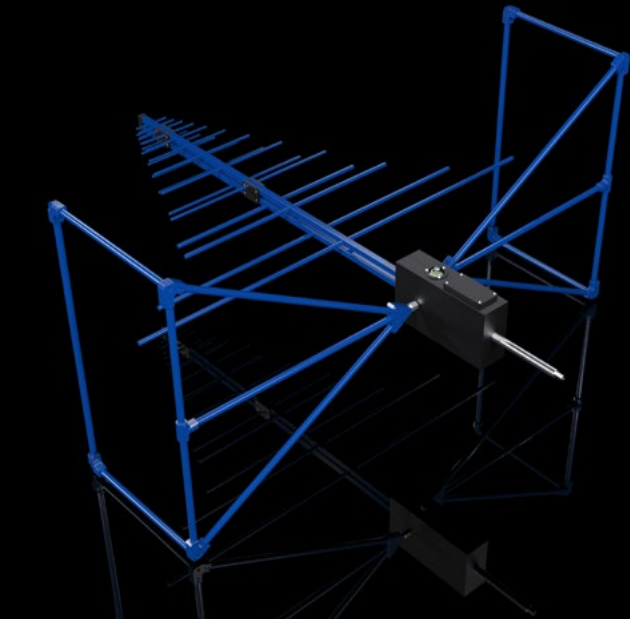
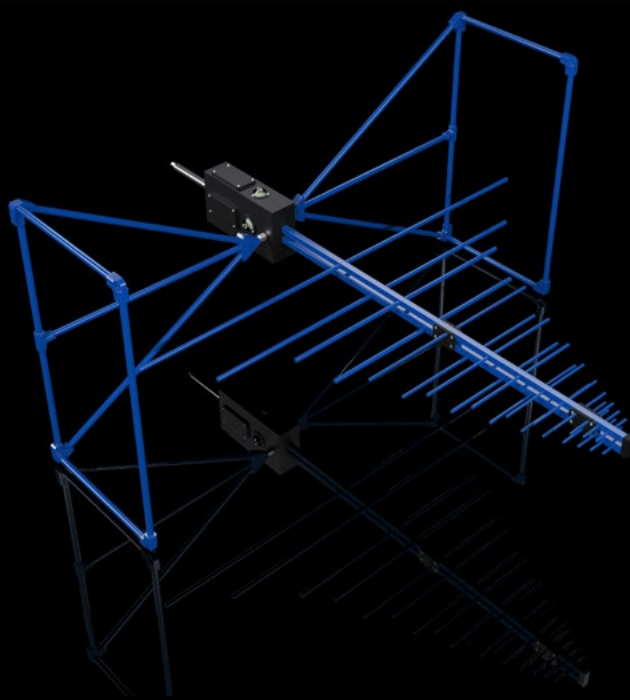
Active	No	Mount	Tripod adapter
Gain (max.)	8 dBi	Dimensions	130x117x59.5 cm
Connector	N (f)	SKU#	201/036

Ultimate EMC/EMI pre-compliance test antenna for the pro user. Unmatched ultra high accuracy. Very high gain over the full frequency range. Meets latest EMC standards up to 6 GHz.

The HyperLOG® 20600 EMI is Aaronias latest antenna development and meets all needs for the latest EMC standards which are expanded to 6GHz since 2011. Combines the advantages of a biconical antenna and those of a log periodic antenna in a single high end EMC/EMI antenna. Offers an extremely high accuracy of 0.3 dB over the full specified frequency range and therefore can even be used as reference antenna.

By using the HyperLOG® EMI antennas, the common EMI and EMC measurement error-rates, which show up by switching between different test antennas, are avoided. This is because you have only to use one antenna for the complete frequency range instead of two ore more antennas. This saves significant costs since the measuring time is reduced drastically.

The HyperLOG® EMI series can also be used as a powerful broadcasting antenna with up to 310 watts. These antennas are suitable even for immunity measurements, where very high field strengths are needed by more than 10 V/m.



IsoLOG® 3D Mobile PRO

The IsoLOG® 3D Mobile PRO is an ultra light and small isotropic antenna which is compatible to any spectrum analyzer. It just works on the fly and is a perfect plug and play solution for 3D measurements in limited time frames.

The antenna requires no software installation, no power connection and no hardware changes. It is connectable via the N (female or male) connector to any analyzer or oscilloscope. Each IsoLOG® 3D Mobile PRO includes an internal, rechargeable battery, offering a run-time of up to 6 hours, and two switchable low noise bypass preamplifiers.

The integrated amp allows measurements of very small signals. Thus, used in bypass mode, the antenna is still usable for high field-strengths.

The control of the antenna is done via USB or via manual antenna selection mode, requiring no USB connection. Aaronia also integrated an ultra fast adjustable “chopper” function. Using special, glitch free RF switches this feature offers an automatic endless antenna rotation/selection with a switching duration of up to 50kHz. This feature transforms the IsoLOG® 3D Mobile into a fully functional 3D antenna without the need of any USB software control.

Shipped in a waterproof transport-case, accompanied with a pistol grip with tripod functionality, the scope of delivery leaves nothing to be desired.



Suited for: ● ECO ● PLUS ● 5G ● XPLOER | ● Ideal choice ○ Limited usage



IsoLOG® 3D Mobile 9030 PRO
9kHz - 3GHz ●○○○

Design	Isotropic	• Worlds first 9 kHz to 3 GHz portable isotropic 3D antenna
Active	Yes	• Suitable for any spectrum analyzer
Gain (max.)	35 dBi	• High gain and low noise
Connector	N (f, opt. m)	• Two built-in bypass preamplifier
Mount	1/4" thread	• Manual or automatic axis switch
Dimensions	315x70x70 mm	• Battery or DC powered
Weight	350 g	• Pistol grip with tripod functionality included
SKU#	207/004	• Waterproof transport case

IsoLOG® 3D Mobile PRO

Suited for: ● ECO ● PLUS ● 5G ● XPLOER | ● Ideal choice ○ Limited usage



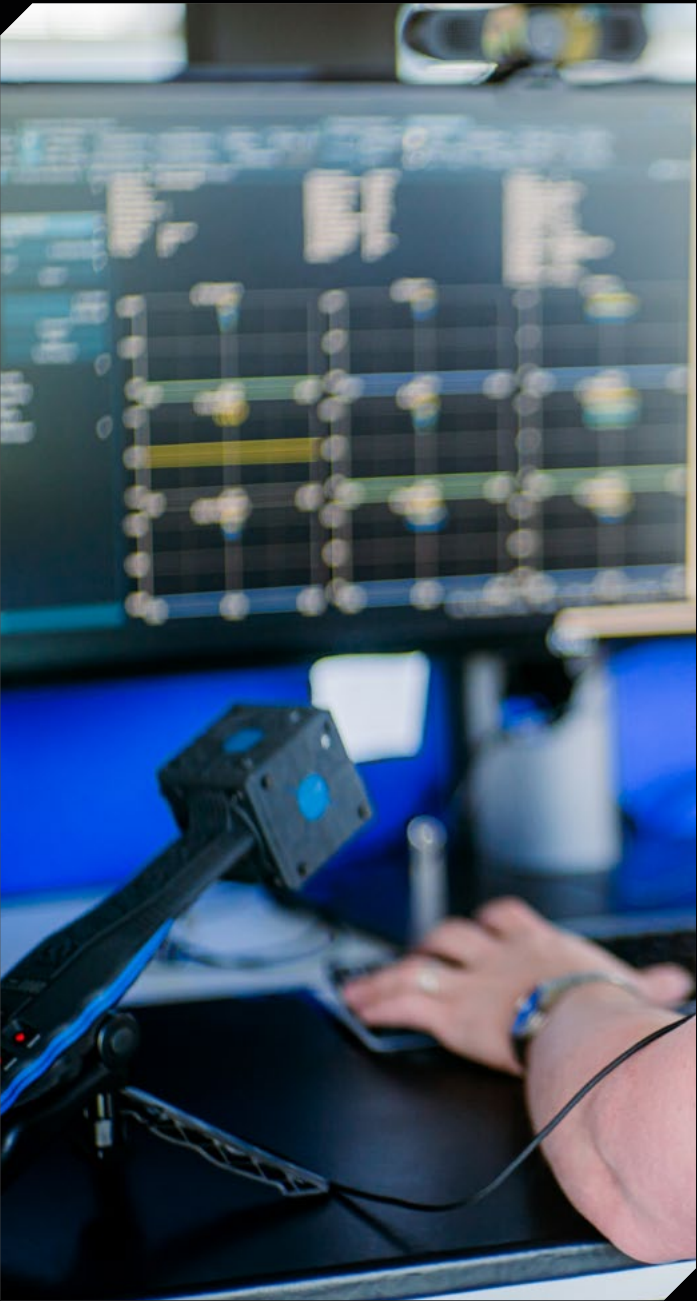
IsoLOG® 3D Mobile 9060 PRO
9kHz - 6GHz ●○○○

Design	Isotropic	• Worlds first 9 kHz to 6 GHz portable isotropic 3D antenna
Active	Yes	• Suitable for any spectrum analyzer
Gain (max.)	20 dBi	• High gain and low noise
Connector	N (f, opt. m)	• Two built-in bypass preamplifier
Mount	1/4" thread	• Manual or automatic axis switch
Dimensions	315x70x70 mm	• Battery or DC powered
Weight	350 g	• Pistol grip with tripod functionality included
SKU#	207/005	• Waterproof transport case



IsoLOG® 3D Mobile 9080 PRO
9kHz - 8GHz ●○○○

Design	Isotropic	• Worlds first 9 kHz to 8 GHz portable isotropic 3D antenna
Active	Yes	• Suitable for any spectrum analyzer
Gain (max.)	22 dBi	• High gain and low noise
Connector	N (f, opt. m)	• Two built-in bypass preamplifier
Mount	1/4" thread	• Manual or automatic axis switch
Dimensions	315x70x70 mm	• Battery or DC powered
Weight	350 g	• Pistol grip with tripod functionality included
SKU#	207/006	• Waterproof transport case



DF Tracking Antenna-Arrays



Real-time RF direction finding including elevation and altitude.

DF Tracking Antenna-Arrays

Suited for: ECO PLUS 5G XPLORER | ● Ideal choice ○ Limited usage

IsoLOG® 3D DF 80			
3D DF Tracking Antenna - 400MHz - 8GHz			
Active	Yes	Antennas	16
Gain (max.)	60 dBi	Accuracy	4 to 6°
Connector	N (f)	Mount	Truss / Tripod
Switch Time	20 ms / 8 µs	Dimensions	960x960x380 mm
Sectors	8	SKU#	207/001

IsoLOG® 3D DF 160			
3D DF Tracking Antenna - 400MHz - 8GHz			
Active	Yes	Antennas	32
Gain (max.)	60 dBi	Accuracy	1 to 3°
Connector	N (f)	Mount	Truss / Tripod
Switch Time	20 ms / 8 µs	Dimensions	960x960x380 mm
Sectors	16	SKU#	201/002

Aaronia's new patented 3D RF Tracking Antenna IsoLOG® 3D DF is the first and only DF antenna also offering the elevation and altitude of any RF source! This makes it the perfect choice for tracking flying transmitters e.g. drones or airplanes. In addition the IsoLOG® 3D DF offers the by far fastest tracking speed of down to 8µs per sector on the market. This offers a unique real time monitoring/tracking feature for ALL RF transmitter (all directions/altitude and frequencies at the same time). And finally our latest development, an ultra high dynamic RF over Fiber solution, eliminates the need of signal damping RF cables, now offering an almost unlimited cable length (10 or more km) without cable loss.

The IsoLOG® 3D DF consists of a high density, customizable sector array and is protected by a included radom which can be ordered in any color and optional prints. The radom is watertight, shock- and heat-proofed to withstand even hardest conditions.

With the "auto rotate-switch function" it can be used with any spectrum analyzer brand. The IsoLOG® 3D DF is the perfect solution for counter-surveillance measurements or drone-detection-systems (UAV tracking). The wide frequency range eliminates the typical need of various DF antenna set ups to save space and system cost. This makes it usable for mounting on even small vehicles (e.g. drive test cars) and for hidden operations.

Looking like a satellite dish for camping vans the IsoLOG® 3D DF is not recognized as a tracking antenna. The IsoLOG® 3D DF is sensitive to the majority of incoming signal polarizations including all linear polarizations, allowing reliable detection of signals including those invisible to most DF systems that use only vertically polarized antennas. The IsoLOG® 3D DF only needs a power source and an Ethernet connection for easy integration and control over any existing network.



OmniLOG PRO Omnidirectional Antennas

Suited for: ECO PLUS 5G XPLORER Ideal choice Limited usage



- Passive antenna
- 2 dBi gain (max.)
- SMA (m) Connector

OmniLOG® PRO 1030
1W Broadband Antenna - 150MHz - 3GHz

ECO PLUS

Connector	Magnetic Base	SKU#	202/004
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OmniLOG® PRO 1060
1W Broadband Antenna - 150MHz - 6GHz

ECO PLUS XPLORER

Connector	Magnetic Base	SKU#	202/005
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OmniLOG® PRO 10100
1W Broadband Antenna - 150MHz - 10GHz

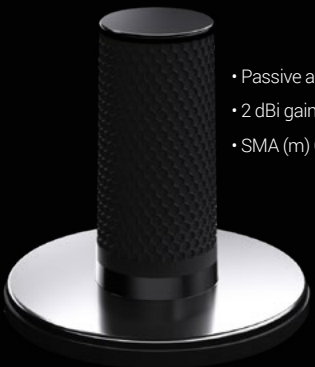
ECO PLUS XPLORER

Connector	Magnetic Base	SKU#	202/006
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OmniLOG® PRO 10200
1W Broadband Antenna - 150MHz - 20GHz

ECO PLUS XPLORER

Connector	Magnetic Base	SKU#	202/007
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- Passive antenna
- 2 dBi gain (max.)
- SMA (m) Connector

OmniLOG® PRO 1030H
100W Transmit/Receive Antenna - 700MHz - 3GHz

ECO PLUS

Connector	Magnetic Base	SKU#	202/008
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OmniLOG® PRO 1060H
100W Transmit/Receive Antenna - 700MHz - 6GHz

ECO PLUS XPLORER

Connector	Magnetic Base	SKU#	202/009
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OmniLOG® PRO 10100H
100W Transmit/Receive Antenna - 700MHz - 10GHz

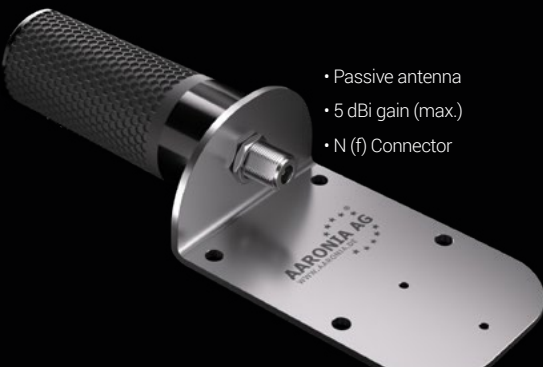
ECO PLUS XPLORER

Connector	Magnetic Base	SKU#	202/010
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OmniLOG® PRO 10200H
100W Transmit/Receive Antenna - 700MHz - 20GHz

ECO PLUS XPLORER

Connector	Magnetic Base	SKU#	202/011
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- Passive antenna
- 5 dBi gain (max.)
- N (f) Connector

OmniLOG® PRO N 1030
1W Broadband Antenna - 150MHz - 3GHz

ECO PLUS

Connector	Mounting Bracket	SKU#	202/012
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OmniLOG® PRO N 1060
1W Broadband Antenna - 150MHz - 6GHz

ECO PLUS XPLORER

Connector	Mounting Bracket	SKU#	202/013
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OmniLOG® PRO N 10100
1W Broadband Antenna - 150MHz - 10GHz

ECO PLUS XPLORER

Connector	Mounting Bracket	SKU#	202/014
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OmniLOG® PRO N 10200
1W Broadband Antenna - 150MHz - 20GHz

ECO PLUS XPLORER

Connector	Mounting Bracket	SKU#	202/015
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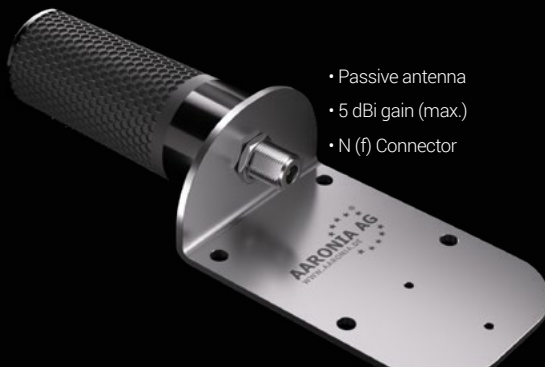
The OmniLOG® PRO series offers high-power transmit & receive antennas for spectrum monitoring and interference hunting, including countermeasures. This series includes

an ultra-wideband receive antenna (1 W [CW]) and a 100 W high-power transmit & receive antenna (100 W [CW]). They cover RF sources from VHF to K-band (e.g., radio, TV, mobile, DECT,

Bluetooth, WLAN). Each OmniLOG® PRO has an IP65-certified outdoor-ready housing and undergoes rigorous testing, allowing Aaronia to provide a 2-year warranty on all antennas.

OmniLOG PRO Omnidirectional Antennas

Suited for: ECO PLUS 5G XPLORER Ideal choice Limited usage



- Passive antenna
- 5 dBi gain (max.)
- N (f) Connector

OmniLOG® PRO N 1030H
100W Transmit/Receive Antenna - 700MHz - 3GHz

ECO PLUS

Connector	Mounting Bracket	SKU#	202/016
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OmniLOG® PRO N 1060H
100W Transmit/Receive Antenna - 700MHz - 6GHz

ECO PLUS XPLORER

Connector	Mounting Bracket	SKU#	202/017
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OmniLOG® PRO N 10100H
100W Transmit/Receive Antenna - 700MHz - 10GHz

ECO PLUS XPLORER

Connector	Mounting Bracket	SKU#	202/018
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OmniLOG® PRO N 10200H
100W Transmit/Receive Antenna - 700MHz - 20GHz

ECO PLUS XPLORER

Connector	Mounting Bracket	SKU#	202/019
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ECO PLUS

OmniLOG® 90200
700MHz - 2.5GHz

Active	No
Gain (max.)	2 dBi
Connector	SMA (m)
Dimensions	210x20 mm
Weight	70 g
SKU#	202/001

- Excellent cost effective omni-directional antenna
- For radial isotropic measurements from 700MHz to 2.5 GHz
- GSM (GSM900, GSM1800, GSM1900), UMTS and 2,4GHz WLAN



ECO PLUS

OmniLOG® 70600
680MHz - 6GHz

Active	No
Gain (max.)	2 dBi
Connector	SMA (m)
Dimensions	173x62 mm
Weight	54 g
SKU#	202/002

- Ultra-wideband antenna
- Advancement of the OmniLOG® 90200 with extended frequency range of 680 MHz - 6 GHz
- GSM, CDMA, LTE, WiFi, ISM, DECT, Bluetooth, 5GHz WLAN, WiMAX

OmniLOG® 30800
300MHz - 8GHz

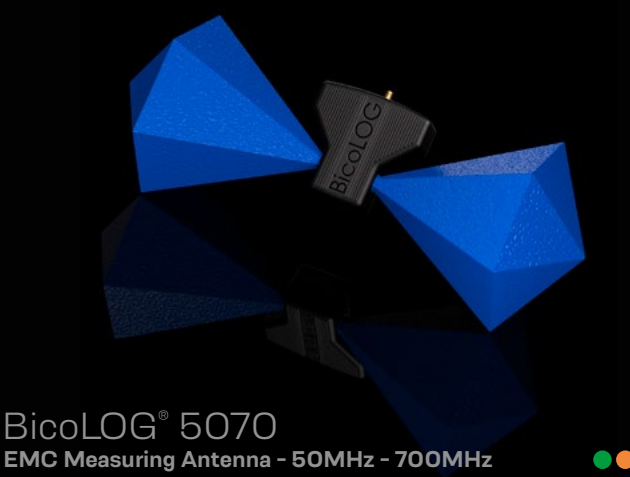
ECO PLUS

Active	No
Gain (max.)	2.5 dBi
Connector	SMA (m)
Dimensions	173x62 mm
Weight	54 g
SKU#	202/002

- Ultra-wideband antenna
- Advancement of the OmniLOG® 90200 with extended frequency range of 300 MHz - 8 GHz
- GSM, CDMA, LTE, WiFi, ISM, DECT, Bluetooth, 5GHz WLAN, WiMAX

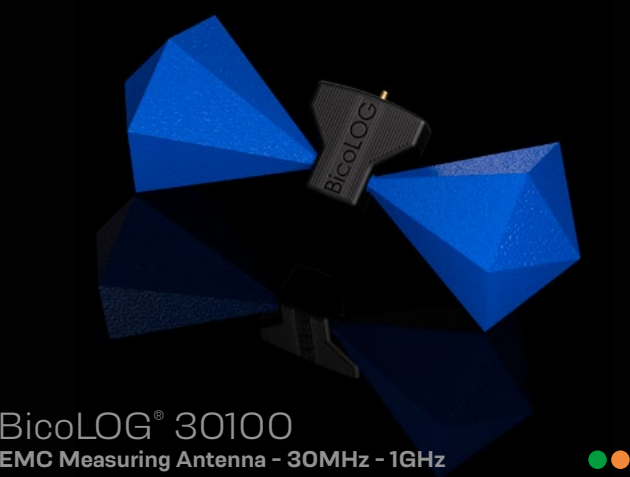
BicoLOG® Biconical Antennas

Suited for: ECO PLUS 5G XPLOER Ideal choice Limited usage



BicoLOG® 5070
EMC Measuring Antenna - 50MHz - 700MHz

Design	Biconical	Mount	1/4" thread
Active	No	Dimensions	350x160x140 mm
Gain (max.)	1 dBi	Weight	350 g
Connector	SMA (f)	SKU#	204/001



BicoLOG® 30100
EMC Measuring Antenna - 30MHz - 1GHz

Design	Biconical	Mount	1/4" thread
Active	No	Dimensions	350x160x140 mm
Gain (max.)	1 dBi	Weight	350 g
Connector	SMA (f)	SKU#	204/002

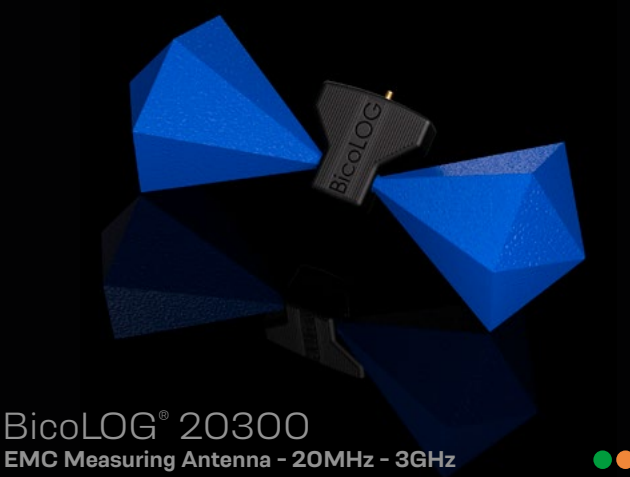


BicoLOG® 20100
EMC Measuring Antenna - 20MHz - 1GHz

Design	Biconical	Mount	1/4" thread
Active	No	Dimensions	350x160x140 mm
Gain (max.)	1 dBi	Weight	350 g
Connector	SMA (f)	SKU#	204/003

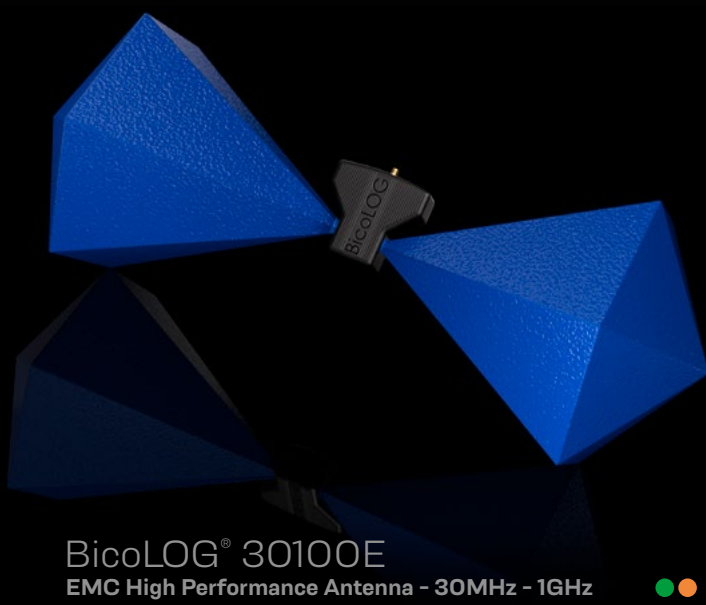
BicoLOG® Biconical Antennas

Suited for: ECO PLUS 5G XPLOER Ideal choice Limited usage



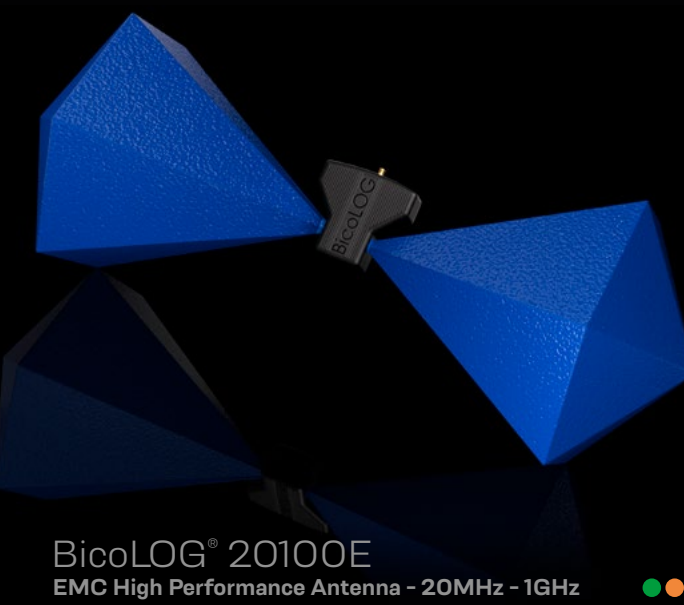
BicoLOG® 20300
EMC Measuring Antenna - 20MHz - 3GHz

Design	Biconical	Mount	1/4" thread
Active	No	Dimensions	350x160x140 mm
Gain (max.)	1 dBi	Weight	350 g
Connector	SMA (f)	SKU#	204/004



BicoLOG® 30100E
EMC High Performance Antenna - 30MHz - 1GHz

Design	Biconical	Mount	1/4" thread
Active	No	Dimensions	540x225x225 mm
Gain (max.)	0 dBi	Weight	1150 g
Connector	SMA (f)	SKU#	204/005



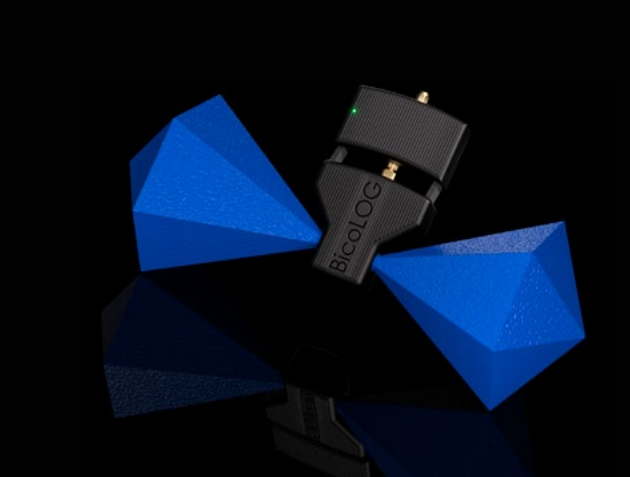
BicoLOG® 20100E
EMC High Performance Antenna - 20MHz - 1GHz

Design	Biconical	Mount	1/4" thread
Active	No	Dimensions	540x225x225 mm
Gain (max.)	0 dBi	Weight	1150 g
Connector	SMA (f)	SKU#	204/006

The high-quality measurement antennas of the BicoLOG® series are very lightweight and therefore ideal for portable measurement devices in addition to use in the laboratory. Each BicoLOG® has a high-quality SMA connector and can therefore be connected immediately to many spectrum analyzers. Instruments with an N connector can be connected via our optional adapter. When using our high-sensitivity HF-60100 V4 Spectrum Analyzer with preamplifier, all necessary calibration data is already provided automatically in the Spectrum Analyzer Software MCS, so that fast and professional measurements are possible right from the start.

BicoLOG® Biconical Antennas

Suited for: ECO PLUS 5G XPLORER | Ideal choice Limited usage



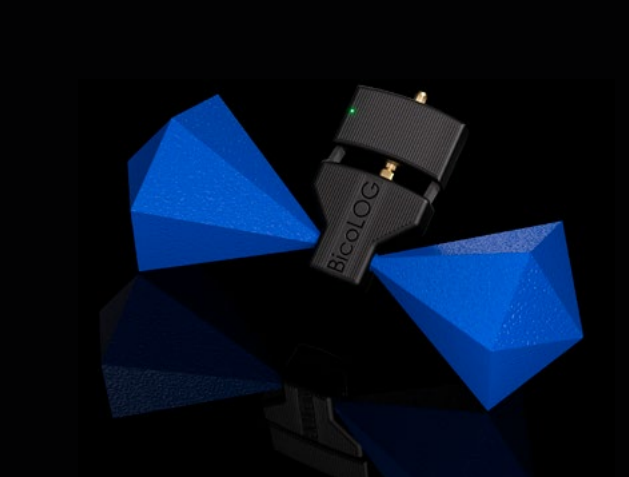
BicoLOG® 5070X
Active EMC Measuring Antenna - 50MHz - 700MHz ECO PLUS

Design	Biconical	Mount	1/4" thread
Active	Yes	Dimensions	350x160x140 mm
Gain (max.)	41 dBi	Weight	500 g
Connector	SMA (f)	SKU#	204/007



BicoLOG® 30100X
Active EMC Measuring Antenna - 30MHz - 1GHz ECO PLUS

Design	Biconical	Mount	1/4" thread
Active	Yes	Dimensions	350x160x140 mm
Gain (max.)	41 dBi	Weight	500 g
Connector	SMA (f)	SKU#	204/008

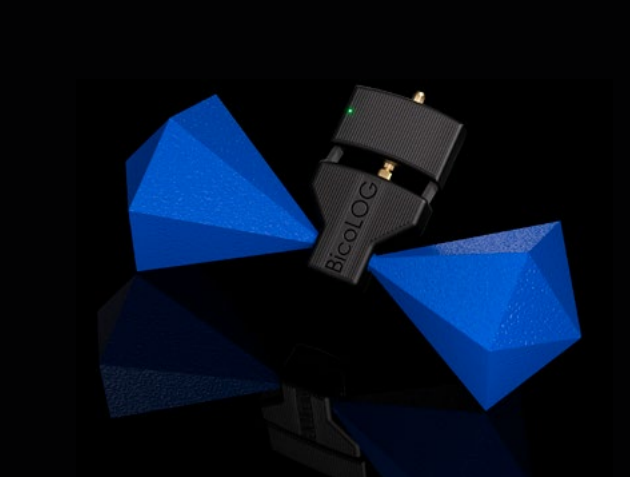


BicoLOG® 20100X
Active EMC Measuring Antenna - 20MHz - 1GHz ECO PLUS

Design	Biconical	Mount	1/4" thread
Active	Yes	Dimensions	350x160x140 mm
Gain (max.)	41 dBi	Weight	500 g
Connector	SMA (f)	SKU#	204/009

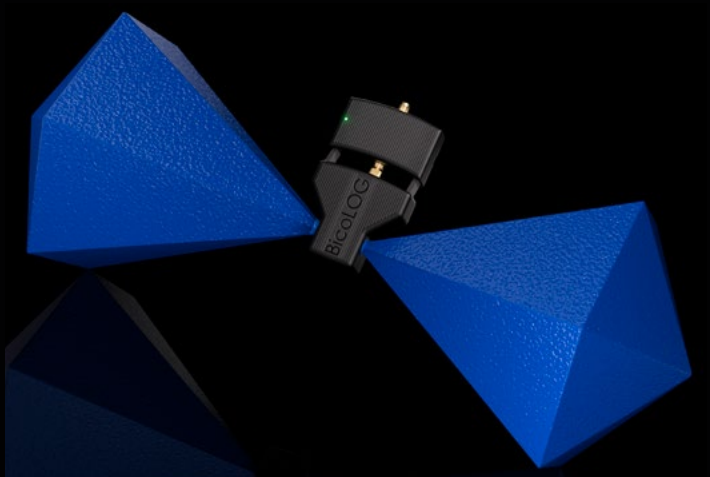
BicoLOG® Biconical Antennas

Suited for: ECO PLUS 5G XPLORER | Ideal choice Limited usage



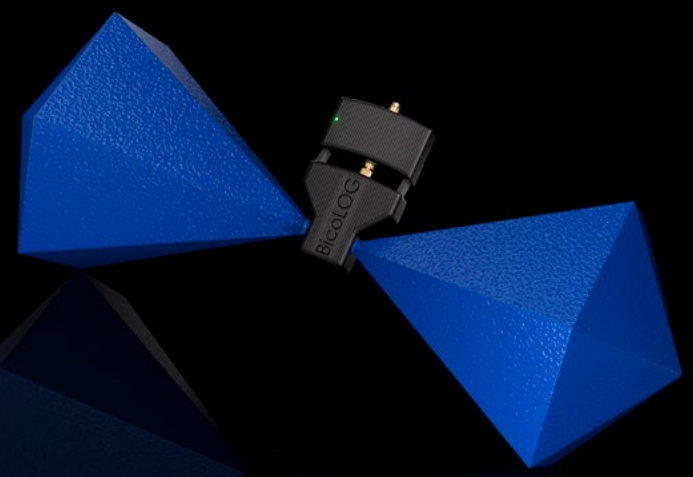
BicoLOG® 20300X
Active EMC Measuring Antenna - 20MHz - 3GHz ECO PLUS

Design	Biconical	Mount	1/4" thread
Active	Yes	Dimensions	350x160x140 mm
Gain (max.)	41 dBi	Weight	500 g
Connector	SMA (f)	SKU#	204/010



BicoLOG® 30100E X
Active High Power Antenna - 30MHz - 1GHz ECO PLUS

Design	Biconical	Mount	1/4" thread
Active	Yes	Dimensions	350x160x140 mm
Gain (max.)	41 dBi	Weight	1300 g
Connector	SMA (f)	SKU#	204/011



BicoLOG® 20100E X
Active High Power Antenna - 20MHz - 1GHz ECO PLUS

Design	Biconical	Mount	1/4" thread
Active	Yes	Dimensions	350x160x140 mm
Gain (max.)	41 dBi	Weight	1300 g
Connector	SMA (f)	SKU#	204/013

The high-quality active measurement antennas of the BicoLOG® X series are very lightweight and therefore, in addition to the use in the laboratory, also ideally suited for portable measurement devices. Each BicoLOG® X has a high quality SMA connector and

can therefore be connected immediately to many spectrum analyzers. Instruments with an N-connector can be connected via our optional adapter. When using our high-sensitivity HF-60100 V4 Spectrum Analyzer with Preamplifier, all required calibration

data is already provided automatically in the Spectrum Analyzer Software MCS, enabling fast and professional measurements right from the start.

LF/HF Preamplifiers

Suited for: ECO PLUS 5G XPLORE Ideal choice Limited usage



The UBBV-HF series enables maximum performance, especially when measuring extremely weak signals. They are essential for EMC and pre-compliance measurements, e.g. according to EN55011, EN55022, EN50371 etc. The UBBV-NF series offers the best possible performance when measuring weak signals in the frequency range of 1 Hz - 30 MHz.

22dB Preamp UBBV 0910
Ultra Low Noise - 9kHz - 6GHz

Frequency range	9kHz - 6GHz	Impedance	50 Ohm
Noise	0.4 dB (typ.)	Connector IN	SMA (f)
Gain	22 dB (typ.)	Connector OUT	SMA (m)
Max. input	+10 dBm	Weight	146g
Max. Output	+8 dBm	SKU#	302/002

23dB Preamp UBBV 1060 BPA
Low Noise Bypass - 100MHz - 6GHz

Frequency range	100MHz - 6GHz	Impedance	50 Ohm
Noise	1.4 dB (typ.)	Connector IN	SMA (f)
Gain	23 dB (typ.)	Connector OUT	SMA (m)
IP3 (bypass)	+48 dBm (typ.)	Weight	146g
Max. Output	+21 dBm	SKU#	302/001

25dB Preamp UBBV-NF 25
1Hz - 50MHz

Frequency range	1Hz - 50MHz	Max. Output	+15 dBm
Gain	25 dB (typ.)	Connector IN	SMA (f)
Max. DC	10 VDC	Connector OUT	SMA (m)
Max. AC	3V or 2.1V rms	Weight	146g
		SKU#	301/001

LF/HF Preamplifiers

Suited for: ECO PLUS 5G XPLORE Ideal choice Limited usage



The UBBV-HF ultra-high gain broadband preamplifiers can be mounted directly on all SPECTRAN® handheld devices, but can also be used with spectrum analyzers and antennas from other manufacturers without any problems. For the best possible performance of an EN55011, EN55022 or EN50371 EMC measurement. The UBBV-HF preamplifier is already considered and calibrated in our spectrum analysis software "MCS". It offers a significant performance gain especially in the lower frequency range up to 1GHz.

The UBBV-NF series offers a high impedance signal input and can therefore even be used with the antennas of the MagnoTRACKER® series or other, regular 50 Ohm devices. This preamplifier is already considered and calibrated in our Spectrum Analyzer Software "MCS". It offers a continuous linear gain of up to 35dB. The UBBV-NF can be operated via internal rechargeable battery (runtime approx. 3-4 hours) or via the supplied power supply.

35dB Preamp UBBV-NF 35
1Hz - 30MHz

Frequency range	1Hz - 30MHz	Max. Output	+10 dBm
Gain	35 dB (typ.)	Connector IN	SMA (f)
Max. DC	10 VDC	Connector OUT	SMA (m)
Max. AC	3V or 2.1V rms	Weight	146g
		SKU#	301/002

40dB EMC Preamp UBBV1
1MHz to 1GHz

Frequency range	1MHz to 1GHz	Impedance	50 Ohm
Noise (typ.)	3.5 dB	Connector IN	SMA (f)
Gain (typ.)	40 dB	Connector OUT	SMA (m)
Max. input	+15 dBm	Weight	146g
Max. Output	+15 dBm	SKU#	302/004

40dB EMC Preamp UBBV2
1MHz to 10GHz

Frequency range	1MHz to 10GHz	Impedance	50 Ohm
Noise (typ.)	3.5 dB	Connector IN	SMA (f)
Gain (typ.)	40 dB	Connector OUT	SMA (m)
Max. input	+15 dBm	Weight	146g
Max. Output	+15 dBm	SKU#	302/005

RF Preamp UBBV DC20
DC to 20GHz

Frequency range	DC to 20GHz	Impedance	50 Ohm
Noise (typ.)	2.5 dB	Connector IN	SMA (f)
Gain (typ.)	14 dB	Connector OUT	SMA (m)
Max. input	+15 dBm	Weight	146g
Max. Output	+15 dBm	SKU#	303/001

AARTOS™ Drone Detection System



World's most successful
drone detection system

After five years of development, Aaronia is introducing its latest drone detection system – the AARTOS™ DDS Generation 6. Designed to detect intruding drones, the system is based on real-time directional measurements of a drone's electromagnetic emissions (including its remote control). AARTOS™ DDS users receive accurate warnings and alerts about incoming drones.

Our system's detection range far exceeds that of its targets. Under normal circumstances, the detection range is equal to (or longer than) the maximum distance between the operator and the drone, depending on the transmitter power of the drone and/or its operator. Taking into account factors such as drone type and topography, the range of the AARTOS™ DDS can reach 50 km or more.

Aaronia's drone detection system can be used virtually anywhere. The AARTOS™ has proven itself in protection of borders, sports events or concerts, residential areas, government facilities as well as commercial or industrial sites such as nuclear plants. Available as a single-site or multiple-site solution, the system can be adjusted to the characteristics of the respective terrain to be monitored.

AARTOS™ is based on our IsoLOG® 3D DF antenna, real-time spectrum analyzers and a special software plug-in for the RTSA-Suite PRO software. Combining all these elements allows for 24/7 monitoring, recording, and uninterrupted data streaming. The system is also both compact and flexible, allowing it to be set up in virtually any environment it is needed.

AARTOS™ Drone Detection System



DETECT

- Detection range up to 50 km
- Portable and stationary variants
- Powerful software
- Made in Germany

LOCALIZE

- Real-time AI and 3D DF monitoring
- Localizes drones and pilots
- Fully automatic mode possible
- Optional with radar and cameras

COUNTER

- Drone jamming up to 10 km range
- Seamless frequency range, selectively from 400 MHz to 6 GHz
- Portable or stationary



AARTOS™ Drone Detection System



X2

Typical range: Standard 5 km, Long Range 40 km



X5

Typical range: 1-2 km



X7

Typical range: 2-5 km



X9

Typical range: 5-14 km



The AARTOS™ X2 is a low-cost and mobile drone detection system with a long range of up to 5 km (stationary up to 30 km), capable of decoding drone logs and pinpointing their location.

It is quickly deployable and has the ability to record and replay data. An indispensable tool for protecting against drone threats, e.g. at crowds or events.

The AARTOS™ X5 is also only available in mobile configuration. (V6 MIL). The X5 include the IsoLOG® 3D DF antenna with 8 sectors and is a cost-effective solution in situations that require detection as well as positioning. Drones are detected within a range of 1 to 2 km.

The AARTOS™ X7 offers an increased range and accuracy and can be easily upgraded with additional components.

Real-time triangulation of all targets can be achieved by interconnecting multiple X7 systems. An additional independent receiver will improve the frequency coverage even further. The IsoLOG® 3D DF antenna increases the X7's detection range to 2 to 5 km.

For more information and detailed specifications please visit www.drone-detection-system.com

AARTOS™ Drone Detection System



The AARTOS™ X9 operates with the same precision as the X7, but additionally offers seamless ultra-wideband monitoring with 4+ independent receivers and an optimized amplifier group.

The X9 traverses the entire frequency range more than 1000! times per second. With an enormous range of up to 14 km (or much more by scaling multiple AARTOS™ X9 systems), the AARTOS™ X9 is perfect for the monitoring of large areas. The system has already proven itself at international airports such as Heathrow and Muscat.

Our AARTOS™ programmable jammer delivers a gapless coverage from 400 MHz to 6 GHz with an effective jamming range of 10 km. With its directional antennas it is able to cover all commercial and military drones up to 6 GHz and can counter them with a freely adjustable output power of 30W per sector (upgradeable to 100W).

The stationary jammer has a jamming range of up to 8 km, it creates a system that can reliably and quickly locate and neutralize threats. With its directional and omnidirectional antennas and a maximum output power of 1300W the jammer is capable of countering drones within the most common frequency bands (430 MHz, 1.6 GHz, 2.4 GHz and 5.8 GHz).

AARTOS™ offers a wide range of radars to accommodate any customer requests (low range, low cost or high end, 3D). AARTOS™ Radar can determine and display the exact position, flight direction, altitude, speed and classification of an inbound drone in real-time.

Our AARTOS™ Cam is a fully integrated, optical, and thermal solution for the detection of drones and is perfectly matched to the RF detection mechanisms of the AARTOS™ system. It enables the user to visually spot detected drones, even from large distances, and identify potentially dangerous payloads attached to the drone, such as explosives.

RTSA-Suite PRO



RTSA Suite PRO is the world's fastest real-time spectrum analysis software on the market and was developed specifically for our latest SPECTRAN® real-time instruments.

It allows various hardware components to be integrated and used for evaluation.

A simple configuration via blocks in the software allows optimal settings for almost all measurement scenarios. Already with the standard free basic blocks (worth more than 7000 Euro) of the RTSA-Suite PRO you are prepared for most tasks.

Included are among others: An HTTP Server and Client, the AM/FM Demodulator, Sweep Zoom, Filewriter/reader and the 32k FFT feature.

- Gapless real-time 3D view
- Unlimited recording time
- Supports multiple devices simultaneously
- Real-time demodulation
- Intelligent, real-time 3D TRIGGER
- Fully automatic pulse classification (decodes Wifi, BT, GSM, DECT, QPSK, QAM etc.)
- Graphics card (GPU) support
- Low system requirements
- USB 2.0 and 3.0 support
- Up to 20 GHz real-time bandwidth
- Full MATLAB support
- Almost limitless measurement scenarios configurable through innovative block system

RTSA-Suite PRO Optional Software Blocks

GNSS Compass



GPS Tracking User

#122/039

Devices

Allows the usage of an external dual GNSS satellite navigation system for position, direction and tilt information.

GPS



location

#122/004

Devices

The GPS block offers the possibility to read the GPS data from a GPS device.

NRP-Z11 Power Sensor



Input 1
Input 2
Input 3
Input 4
Output 1
Output 2
Output 3
Output 4

#122/007

Devices

Device control for the Rohde & Schwarz NRP-Z power sensor family.

NRQ6 Power Sensor



Power

#122/008

Devices

Device control for the Rohde & Schwarz NRQ6 frequency selective power sensor.

RF SP4T Switch



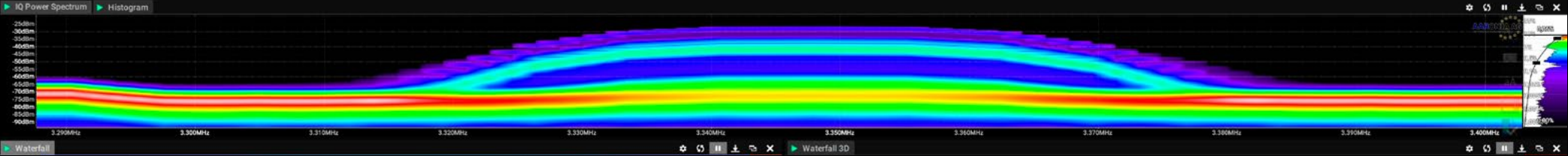
RF - J1
RF - J2
RF - J3
RF - J4
RF - COM

#122/028

Devices

The RF SP4T Switch block can be used as a stand alone or within a mission.

IQ Power Spectrum



Waterfall

#122/029

Devices

Allows the usage and configuration of a separate Tektronix RSA USB Analyzer.

IQ Direction Power Spectrum



Spectra
IQ2
Detector

#122/043

IQ Processing

Analyzes the IQ spectrum and will add an antenna sync information to it based on some advanced algorithm.

IQ High Prec Power Spectrum



IQ
t → f
Spectra

#122/051

IQ Processing

Converts I/Q data in real-time to SPECTRA using an highly optimized double precision 64Bit FFT algorithm.

IQ Pulse Inspector



IQ
Spectra

#122/017

IQ Processing

Offers a fully automatic digital signal burst/pulse classification and demodulation/decoder.

Channel Power



Spectra
dBm
Channels

#122/019

Measurement

Generates the channel stream for the Category Timeline, Category Bars and Category Histogram blocks.

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Aaronia AG | Aaroniaweg 1 | D-54597 Strickscheid | +49 6556 900 310 | www.aaronia.com | mail@aaronia.de | Subject to modifications and errors | V.0.3.1

DEVELOPED & MANUFACTURED IN GERMANY

69

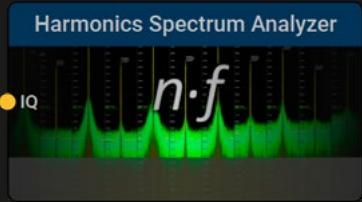
RTSA-Suite PRO Optional Software Blocks



Grid Waterfall

#122/020 **Measurement View**

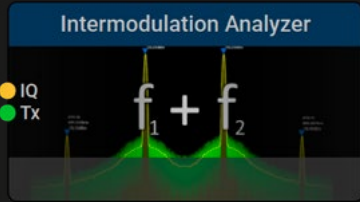
Shows up to 16 waterfall displays within a single view.



Harmonics Spectrum Analyzer

#122/005 **Measurement View**

The block offers a real-time harmonics and THD (in dBc and percentage) measurement based on IQ data.



Intermodulation Analyzer

#122/006 **Measurement View**

The Intermodulation Analyzer block offers a real-time IP3 (TOI) measurement.



IQ Power Statistics

#122/049 **Measurement View**

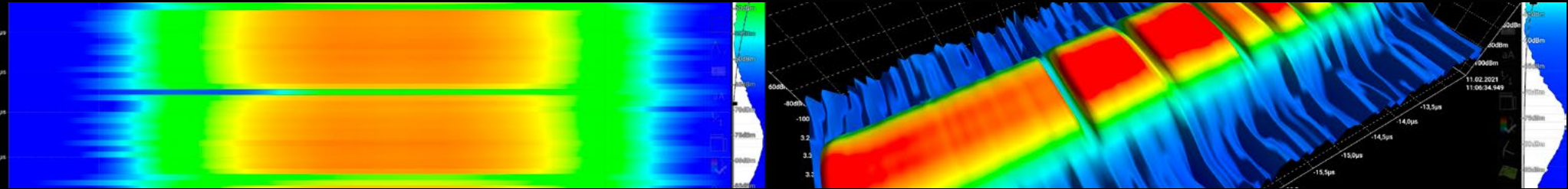
The IQ Power Statistics block offers a real-time PDF, CDF, CCDF & Relative CCDF statistical RF power measurement.

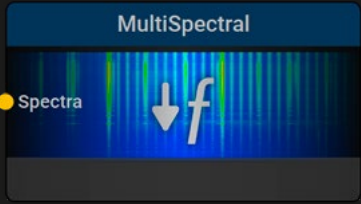


Multi Waterfall

#122/020 **Measurement View**

The Multi Waterfall block (Grid Spectrogram) shows up to 8 waterfalls within a single view.

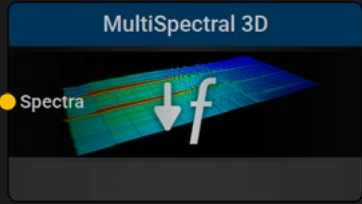




MultiSpectral

#122/022 **Measurement View**

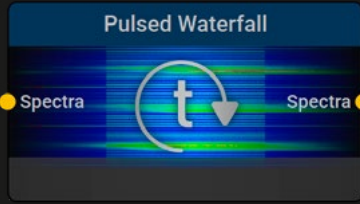
Shows all fundamentals and harmonics within the frequency spectrum e.g. from pulsed or frequency modulated signals.



MultiSpectral 3D

#122/022 **Measurement View**

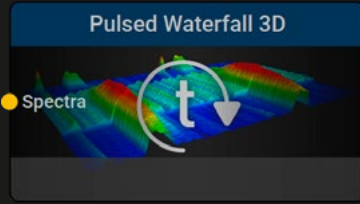
Shows the fundamentals and harmonics from all pulsed or frequency modulated signals within the frequency spectrum at a glance in 3D.



Pulsed Waterfall

#122/022 **Measurement View**

Identify the duration of any signal within the frequency spectrum live at a glance.



Pulsed Waterfall 3D

#122/022 **Measurement View**

Identify the duration of any signal within the frequency spectrum live at a glance.



Antenna Segment Detector

#122/020 **Trigger|Detector|Filter**

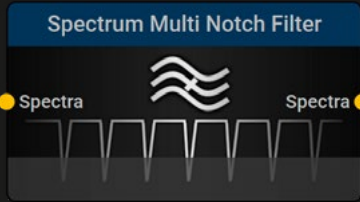
RTSA-Suite PRO Optional Software Blocks



Antenna Segment Filter

#122/020 **Trigger|Detector|Filter**

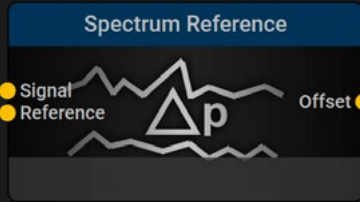
Allows you to filter the stream depending on the selected IsoLOG® 3D DF antenna segments.



Spectrum Multi Notch Filter

#122/040 **Trigger|Detector|Filter**

The Spectrum Multi Notch Filter block allows you to remove or to reduce single or multiple signals from the spectrum.



Spectrum Reference

#122/030 **Trigger|Detector|Filter**

Allows you to compare two spectra streams and to get the offset as a new spectra stream.



Category Bars

#122/019 **Channel Analysis**

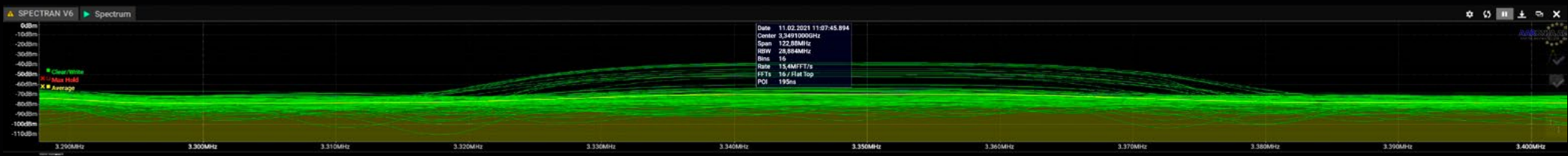
The Category Bars block offers a multi channel bargraph incl min, max and average graph.



Category Histogram

#122/019 **Channel Analysis**

The Category Histogram block offers a multi channel power vs time histogram graph.

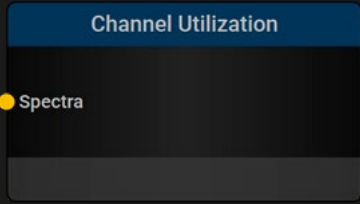




Category Timeline

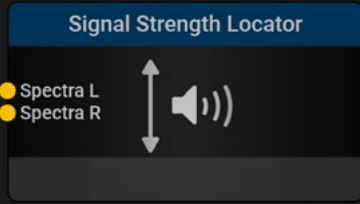
#122/019 **Channel Analysis**

The Category Timeline block offers a functional multi channel timeline graph. This is a "must have" to monitor channels e.g. Bluetooth LE.



Channel Utilization

#122/019 **Channel Analysis**



Signal Strength Locator

#122/036 **Audio**

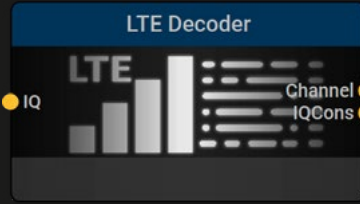
The Signal Strength Locator offers an audio signal (frequency and/or pulse rate) proportional to the signal strength.



IQ WiFi Interaction Mapper

#122/034 **Decoder**

Shows the MAC, vendor, SSID and protocol used by all WiFi routers, nodes, phones etc. within detection range.

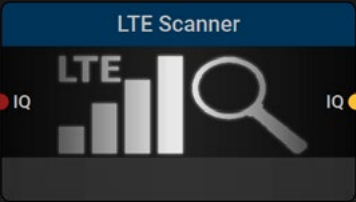


LTE Decoder

#122/052 **Decoder**

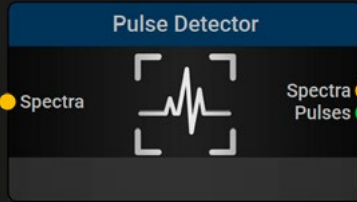
The LTE Decoder block synchronizes to your LTE cell, decodes and displays the most relevant data.

RTSA-Suite PRO Optional Software Blocks



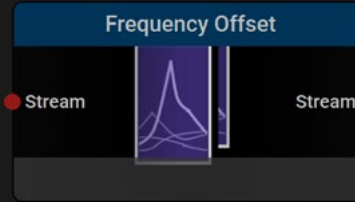
LTE Scanner

#122/052
Decoder
The LTE Scanner block automatically tunes your V6, scans for available cells and shows them in a table.



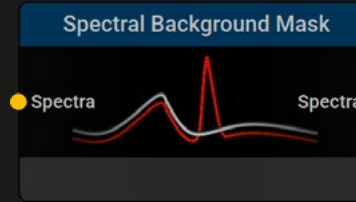
Pulse Detector

#122/022
Decoder
This block can identify pulsed signals matching specified power, duration and width conditions and forward them as JSON data.



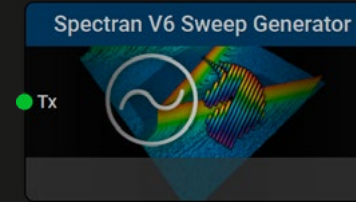
Frequency Offset

#122/050
Calibration
The Intermodulation Analyzer block offers a real-time IP3 (TOI) measurement.



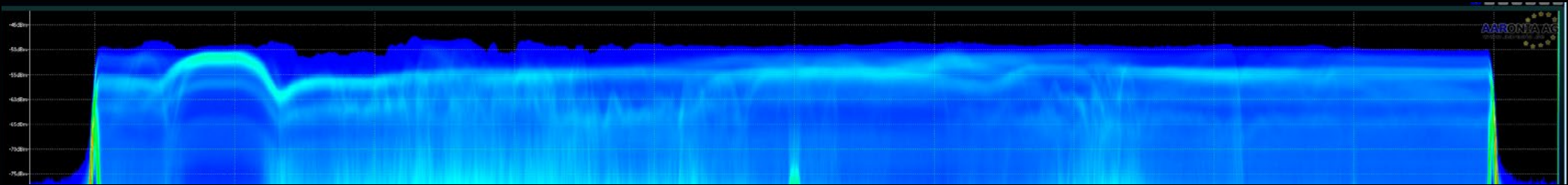
Spectral Background Mask

#122/041
Calibration
Removes all spurious or other signal from the spectrum to offer a perfect clean spectrum to measure your DUT within a noisy RF environment.



Spectran V6 Sweep Generator

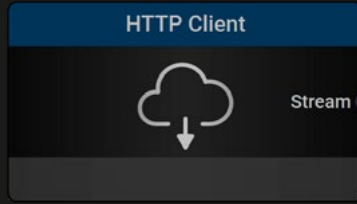
#122/032
Sweep
This block can sweep over the full frequency range starting at 75MHz up to 6GHz and is not limited to the RTBW.





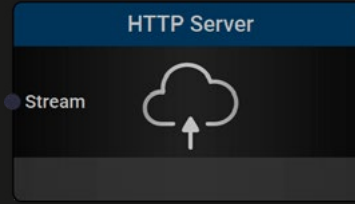
Spectran V6 Tracking Generator

#122/038
Sweep
This block offers an impressive tracking generator, e.g. for rejection measurement of a DUT.



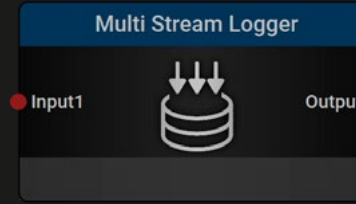
HTTP Client

#122/013
In / Out
This block in combination with the HTTP Server block can handle any data format (I/Q, SPECTRA, Video etc.) within the RTSA-Suite PRO.



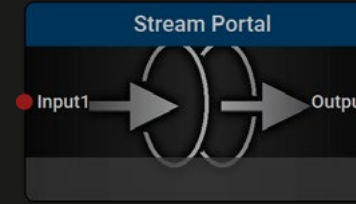
HTTP Server

#122/012
In / Out
This block in combination with the HTTP Client block can handle any data format (I/Q, SPECTRA, Video etc.) within the RTSA-Suite PRO.



Multi Stream Logger

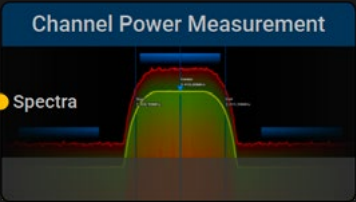
#122/015
In / Out
Multi Stream Logger Block allows to merge and store up to 16 streams (IQ and/or Spectra).



Stream Portal

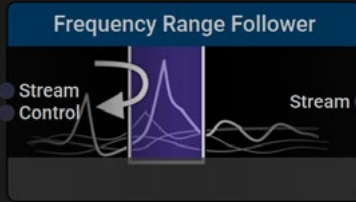
#122/042
In / Out
Local machine stream IO (similar to the HTTP block) but is much more efficient and includes an adjustable buffer for time critical missions.

RTSA-Suite PRO Optional Software Blocks



Channel Power Measurement

#122/002
Control
Measures the ratio of power between the main channel and those channels around the main channel.



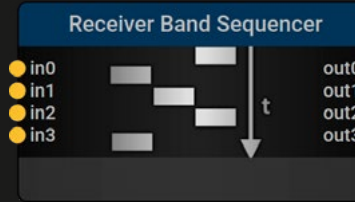
Frequency Range Follower

#122/003
Control
Changes the center frequency and span of an additional SPECTRAN® V6 RSA according to the cursor of the first SPECTRAN® V6 RSA.



HiSLIP-SCPI Server

#122/046
Control
Provides a TCP/IP server interface with a SCPI command set to control a RTSA-Suite PRO Mission remotely.



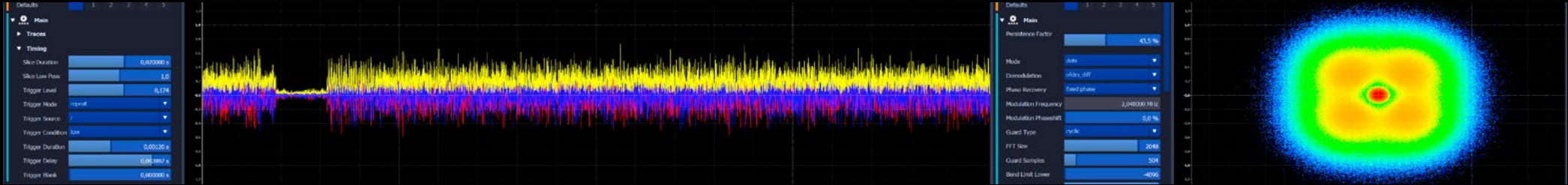
Receiver Band Sequencer

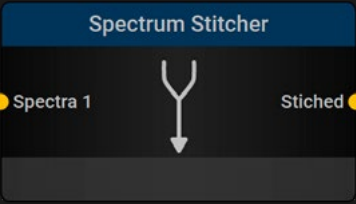
#122/037
Control
Consists of up to 32 individual frequency band setups which can be run as a batch sequence over and over again.



Short Burst Suppression Filter

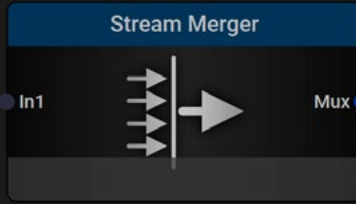
#122/001
Control
The Short Burst Suppression Filter attempts to suppress short pulses from an incoming spectra stream.





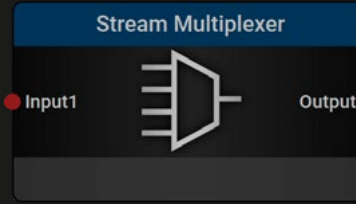
Spectrum Stitcher

#122/031
Control
The Spectrum Stitcher block merges/stitches multiple spectra streams to a single new spectra stream.



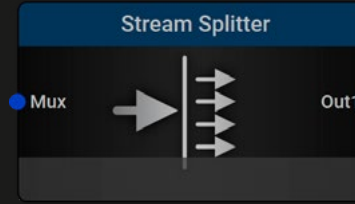
Stream Merger

#122/023
Control
The Stream Merger block merges up to 16 data stream of any type to a single mixed stream.



Stream Multiplexer

#122/016
Control
This block switches/selects from multiple sources (even different data formats e.g. IQ, video, spectra are supported).



Stream Splitter

#122/034
Control
The Stream Splitter block splits the output of the Stream Merger block back to the original streams.



IsoLOG Directional Finding

#122/020
Master Application
The IsoLOG® Directional Finding block shows you the direction of any selected RF signal(s) in real-time and high accuracy on a map.

RTSA-Suite PRO Optional Software Blocks

Multi Spectrum Zoom

Sweep Spectra

Spectra

#122/014 Master Application

The Multi Spectrum Zoom block is a very capable tool to monitor a large frequency spectrum.

RF Drive Test

Spectra 1

#122/035 Master Application

The RF Drive Test block offers a functional RF drive test solution.

Sector Waterfall

Spectra

360°

Spectra

#122/020 Master Application

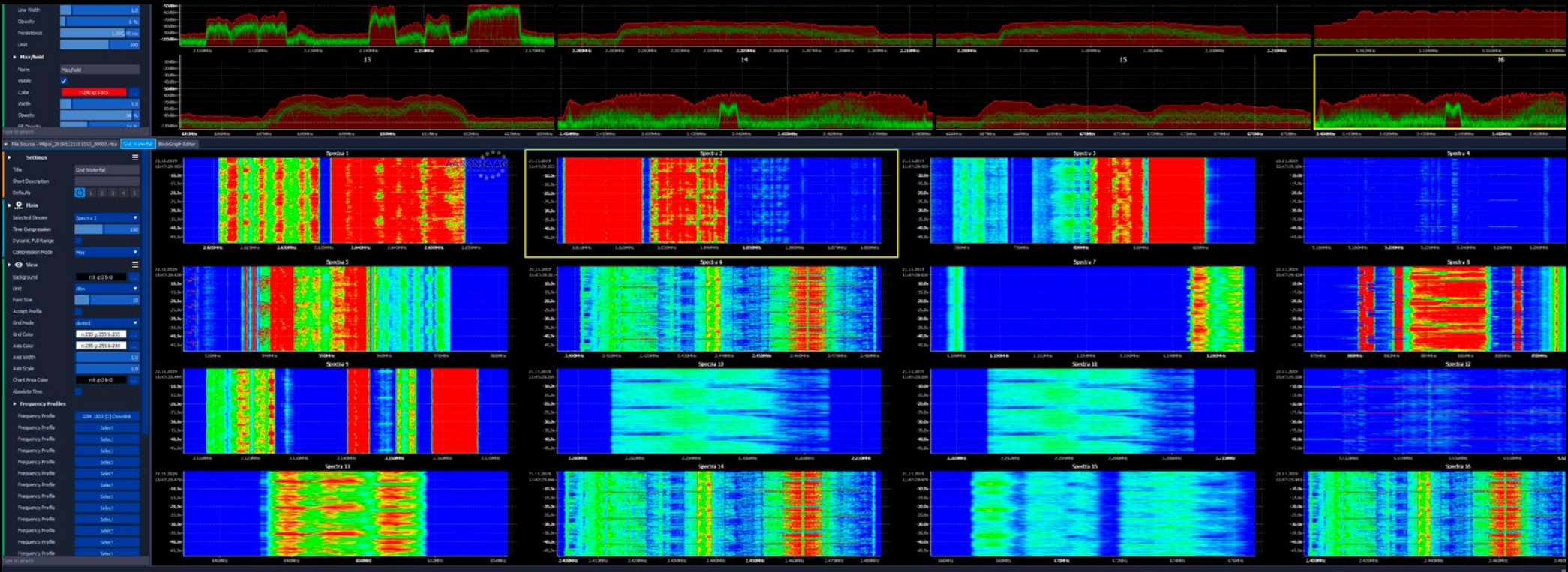
The IsoLOG® Directional Finding block shows you the direction of any selected RF signal(s) in real-time and high accuracy on a map.

Live Video Camera

Video

#122/021 Camera

Allows the usage of the system camera (PC internal or USB) in RT-SA-Suite PRO.



Adapters | Attenuators | DC-Blockers | Resistors

SMA Adapter



SKU# 502/018

SMA Adapter



SKU# 502/015

High Quality SMA Adapter



SKU# 502/019

SMA Quick Adapter



SKU# 502/016

SMA to N Adapter



SKU# 502/009

SMA to N Adapter



SMA to BNC Adapter



SKU# 502/010

SMA to BNC Adapter



SKU# 502/011

SMA to K Adapter



SKU# 502/012

N to BNC Adapter



N to N Adapter



SKU# 502/014

Terminating Resistor



SKU# 502/007

Calibration Resistor SPECTRAN® V4



SKU# 502/006

DC-Blocker



SKU# 502/002

Attenuator 20 dB DC - 18GHz



SKU# 502/003

Accessories

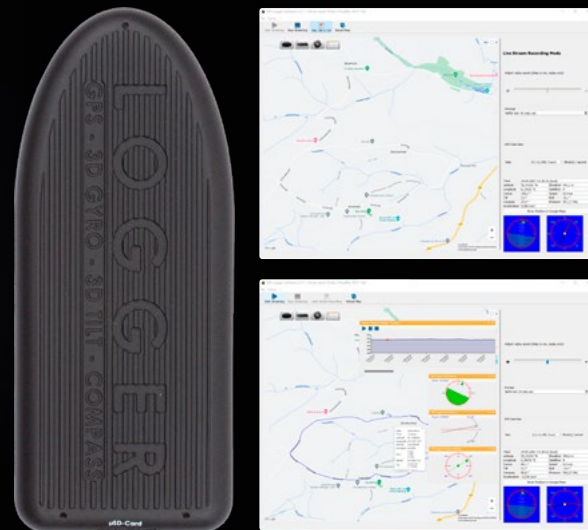


Heavy Pistol Grip with polarization-change-function

This highly stable multi-function pistol grip offers a variety of functions and should not be missing in any professional measurement! Specifically, it is strongly recommended for the use of larger antennas like the HyperLOG® 30xxx and 40xx series. With a single push of a button, the plane of polarization can be set to 45 and 90 degrees. The antenna is supported by a high-quality spring-head rotation in any direction. With the quick release plate a fast exchange of multiple antennas is possible.

The ball mount allows perfect and quick orientation on a tripod stand. The tripod mount is available in 1/4 "or 3/8" size.

SKU# 503/012



GPS Logger

with Gyro & Tiltensor, compass and accelerometer

The Aaronia GPS Logger includes a total of 6 sensors, all of them on the cutting edge of technology, making it the world's first stand-alone data logger with such a variety of sensors. Not to forget is also the very small form factor and the extremely high data rate of approx. 35 logs/second (freely adjustable). The logger with battery weighs just 88 grams

- 165 dBm and accuracy of 1.8 m (CEP95)
- 3D compass with 1-2 degree precision
- 3D/triaxial acceleration sensor with up to 4 mg resolution
- 3D/triaxial gyro / tilt sensor with a sensitivity of 14 LSBs/s
- Altimeter / pressure sensor with a wide pressure range of 260 to 1260mbar and a height resolution of up to 20cm

SKU# 503/035



Spherical Compass

For mounting on HyperLOG® antennas

Works in any position of the antenna due to the sphere filled with liquid. Includes connector and all necessary screws.
SKU# 503/001



Heavy Tripod
for IsoLOG® 3D / HyperLOG® EMI antennas
SKU# 503/013



Heavy Elevating Tripod
for IsoLOG® 3D / HyperLOG® EMI antennas
SKU# 503/014



Compact Aluminum Tripod
Height adjustable, high stability
SKU# 503/057



Tripod
for MagnoTRACKER / PowerLOG® antennas
SKU# 503/016



Miniature Tripod

For Aaronia antennas and handheld analyzers

Turns any HyperLOG® or BicoLOG® antenna into a tabletop unit.
Can also be converted to a practical pistol grip in a few simple steps.
Fits also on Spectran® V4 & NF Spectrum Analyzers. 1/4" tripod connector.
SKU# 503/010





SPECTRAN® V6 Mounting Plate
Vertical version

Dimensions	000x000x00 mm
SKU#	000/000

Coated aluminum mounting plates for attaching two SPECTRAN® V6 form factor units in a vertical position. Very compact and sturdy connection especially made for outdoor usage.

Fits all current V6 analyzers, signal generators, splitters, couplers, RFoF units and the powerbank. Mounting rods and screws are included.



SPECTRAN® V6 Mounting Plate
Horizontal version

Dimensions	000x000x00 mm
SKU#	000/000

Coated aluminum mounting plates for attaching two SPECTRAN® V6 form factor units in a horizontal position. Very compact and sturdy connection especially made for outdoor usage.

Fits all current V6 analyzers, signal generators, splitters, couplers, RFoF units and the powerbank. Mounting rods and screws are included.



Precision Torque Wrench
For Aaronia analyzers, antennas and accessories as well as 3rd party products

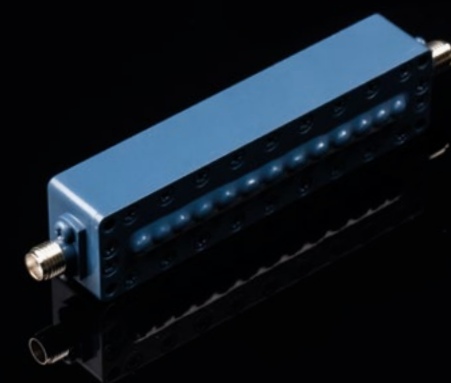
Precision Torque Wrench for Aaronia analyzers, antennas and accessories as well as 3rd party products with 3.5mm, 2.92mm for correct mounting and reproducible measurement:

- 2.4mm, 1.85mm and SMA connectors
 - 5/16" wrench size
 - 0.9 N.m. torque
- SKU# 503/061



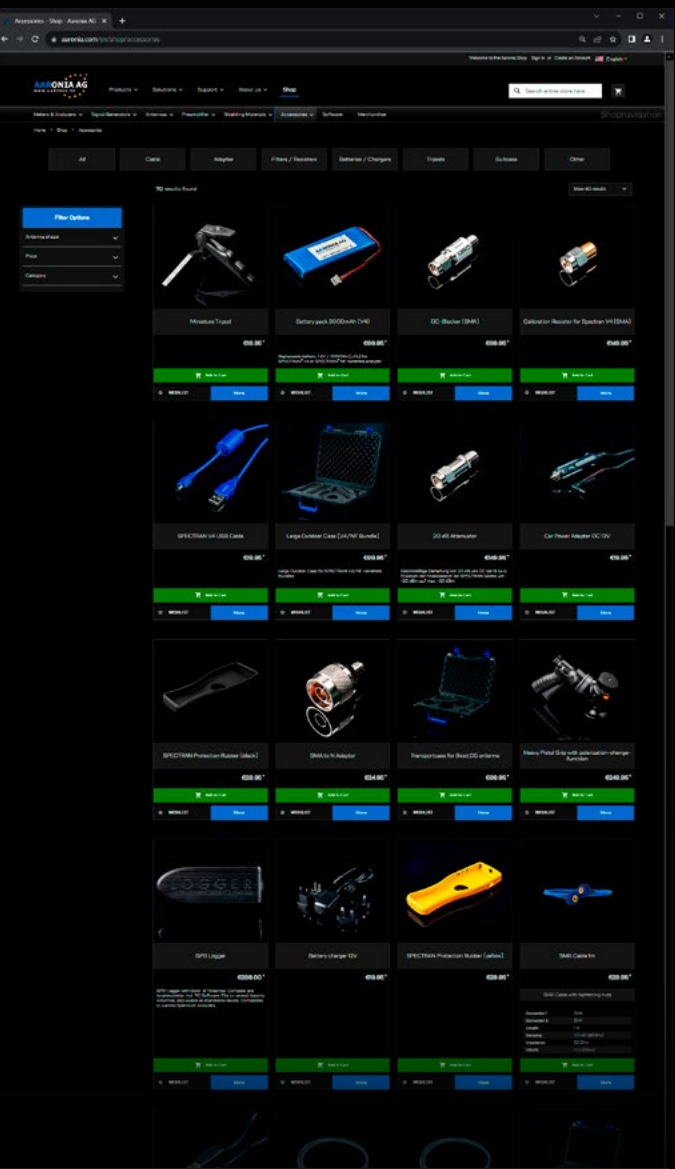
2.4 GHz Bandpass Filter
Frequencies between 2400 MHz and 2500 MHz

Impedance	50 Ohm	Power Handling CW	≤10W
Center Frequency	2450MHz	Peak Instantaneous	≤50 W
Passband	2400 to 2500MHz	Connectors	SMA (f)
Insertion Loss	<1dB	SKU#	502/004



5.8 GHz Bandpass Filter
Frequencies between 5150 MHz and 5850 MHz

Impedance	50 Ohm	Power Handling CW	≤10W
Center Frequency	5500MHz	Peak Instantaneous	≤50 W
Passband	5150 to 5850MHz	Connectors	SMA (f)
Insertion Loss	<1dB	SKU#	502/005



Please visit www.aaronia.com for our complete accessories lineup including outdoor cases, a vast assortment of connection cables, tripods and much more.

Shielding Chambers

Thanks to the special weaving technique, the Aaronia canopy systems are characterized by a high shielding performance in the low to high GHz range and can also shield low-frequency electrical fields.

This requires grounding of the system, which can be done easily and uncomplicatedly with the grounding package supplied with the matching floor mat. Responsible for the very good shielding effect is a complex fabric concept based on a patented silver/polyamide special fiber.

Aaronia canopies are air-permeable and the optics are highly transparent and translucent. The silver/polyamide special fiber ensures good air exchange. The material is antiseptic and therefore extremely allergy-friendly.

It is always recommended to purchase canopies as a system, i.e. a canopy with a matching floor mat. Since our shielding fabric reflects incoming radiation, a Faraday cage should always be created to shield high-frequency signals. This can be achieved relatively easily with our canopies and floor mats.

Canopies made of Aaronia-Shield® do not need to be grounded for high-frequency shielding. However, we generally recommend grounding in connection with the respective shielding mat, since this shields low-frequency electrical fields from power lines, high-voltage lines, etc., on the one hand, and for safety reasons on the other hand, since the materials are electrically conductive and can become statically charged.



50dB Pyramid Shielding Chamber
L: 1.2 x 2.4 x 2.35 m XL: 2.4 x 2.4 x 2.35m

- Bendable, foldable, lightweight and portable
- Easy installation and handling
- Breathable, extremely air permeable
- Highly transparent, washable, antibacterial

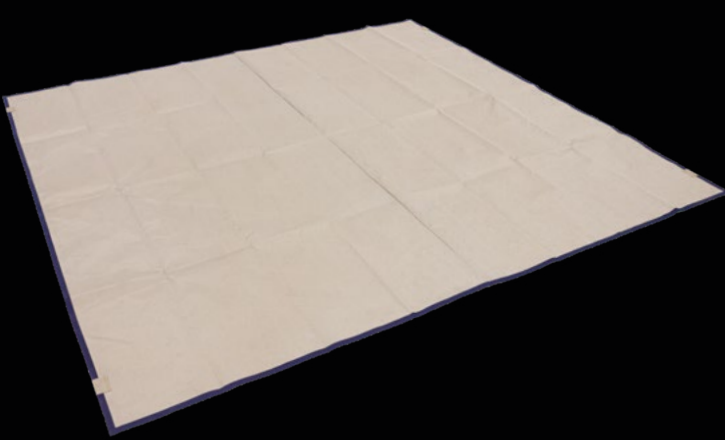
- Braiding material: silver/polyamide blend
- Shielding performance static fields: 99.99% to 99.999% (only WITH grounding!)
- Shielding performance low-frequency, electric fields: 99.99% to 99.999% (only WITH grounding!)
- Shielding performance high-frequency fields: 43dB (99.992%) at 10GHz or 50dB (99.999%) at 1GHz (also WITHOUT grounding)

50dB Cube Shielding Chamber
L: 1.2 x 2.4 x 2.2 m XL: 2.4 x 2.4 x 2.2 m XXL: 3.2 x 2.4 x 2.2 m

- Bendable, foldable, lightweight and portable
- Easy installation and handling
- Breathable, extremely air permeable
- Highly transparent, washable, antibacterial

- Braiding material: silver/polyamide blend
- Shielding performance static fields: 99.99% to 99.999% (only WITH grounding!)
- Shielding performance low-frequency, electric fields: 99.99% to 99.999% (only WITH grounding!)
- Shielding performance high-frequency fields: 43dB (99.992%) at 10GHz or 50dB (99.999%) at 1GHz (also WITHOUT grounding)

Shielding Materials



100dB shielding mat with grounding
L: 135 x 245 cm XL: 260 x 250 cm XXL: 350 x 250 cm

In order to also shield the floor area of the mobile shielding chambers, matching shielding mats made of Aaronia X-Dream® have been developed, which are simply placed under the shielding chamber.

This creates a uniform overall shielding system to provide comprehensive complete protection in the floor area as well.

Two different grounding cables are included in the delivery of the shielding mat: a shielding cable for the connection with a radiator or similar and, if no radiator is available, a cable for the direct connection with the grounding of the socket.



100dB RF shielding fabric
X-Dream (1m²) / X-Dream+ (1m², self adhesive)

Aaronia's novel, patented EMC & RF Shielding-Fleece Aaronia X-Dream® offers an impressive RF shielding performance of far more than 100dB.

Highest RF screening performance even in the high GHz range. Probably offers the best rf and emc screening worldwide in this product and price category! Optimal for RF shielding-application in indoor as well as outdoor areas of homes, offices, laboratories and manufacturing.

Also ideal for building bug-proof environments, precision EMC measurement chambers, or shielding-application in aerospace. This product shields a 10000fold higher performance than Aaronia-Shield®.



80dB RF shielding fabric
Aaronia X-Steel (0,25m²)

Aaronias latest high end EMC screening Aaronia X-Steel. Made from 100% stainless steel fibre.

Meets any industrial or military standard. Almost impossible to destroy. Very temperature stable for at least 600 degrees Celsius, does not rot, permeable to air. Perfectly suitable for EMC screening of air entrances, very high protective EMC clothings etc.

Protects against any kind of RF field just like Aaronia Shield®, but offers a 1000 fold better shielding-performance and protection especially in the very high GHz range. Aaronia X-Steel offers the worlds highest screening within the air permeable EMC screening materials.

Shielding Materials



50dB RF shielding fabric
Aaronia Shield (1m²)

Aaronia's novel EMC and RF Shielding-Fabrics Aaronia Shield® is made from a patented high-tech shielding-fibre. Highly transparent, washable, antiseptic, most effective rf-shielding. Optimal for building rf shielding-canopies and emc emi shielding-chamber, fly screens, curtains, cloth, rf protective clothing etc.

This product probably by far offers the world's best RF-shielding-performance among the highly transparent screening fabrics, according to the special survey conducted by Prof. Dipl.-Ing. P. Pauli.



70dB RF shielding fabric
Aaronia Shield ULTRA (1m²)

High performance shielding fabric Aaronia Shield ULTRA. Comparable to the conventional Aaronia Shield®, but with a higher damping factor of up to 70 dB and non-oxidizing. Perfect for shielding of window surfaces indoors and even outdoors.

Can be used ideal for construction of EMC test chambers or bug-proof conference rooms due to the extremely high damping factor. We recommend the use in combination with the shielding fleece Aaronia X-Dream®.



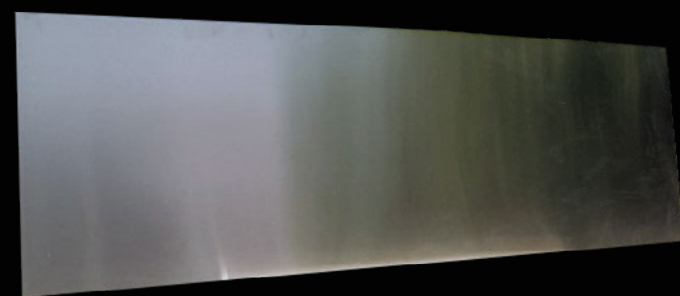
E-/H-field shielding fabric
Aaronia Mesh (1m²)

Aaronia presents the new stainless steel shielding fabric Aaronia Mesh. Ideal for industrial applications as well as for military, research and development. Aaronia mesh has been specifically designed for use under extreme conditions (salt air, extreme temperatures, vacuum, etc.).

Aaronia mesh is made of 100% stainless steel, is temperature stable up to 600 degrees Celsius, has an extremely high attenuation, yet is extremely breathable.

The material reliably attenuates E & H fields. In particular, in the kHz and low MHz range Aaronia mesh offers an extremely high shielding factor of up to 108dB (E-field).

Shielding Materials



Shielding-Panel
MagnoShield® DUR (0.66 x 2.00 m)

Aaronia's high performance EMC panels Aaronia MagnoShield® magnetic field-shielding & screening. Aaronia's industry-grade EMC magnetic panel-shielding are made from special MuMetal composite panels and allow efficient shielding against virtually ALL radiation: LOW FREQUENCY MAGNETIC FIELDS as well as high frequency RF fields, electric fields and electrostatic fields.

Aaronia MagnoShield® magnetic-shielding is particularly suited for screening against low-frequency magnetic fields emitted from transformers, traction power lines, power cables etc.

Also ideally suited for building bug-proof environments, precision EMC measurement chambers or for protecting highly sensible areas in aerospace.



Shielding-Foil
MagnoShield® FLEX (1rm)

Aaronia MagnoShield® FLEX has been developed especially for also shielding high-frequency magnetic fields caused by local radiation sources such as cables, transformers, generators, traction power, power distribution boxes, high-voltage lines etc.



Shielding-Foil
MagnoShield FLEX+ (1rm, self-adhesive)

Aaronia MagnoShield® FLEX has been developed especially for also shielding high-frequency magnetic fields caused by local radiation sources such as cables, transformers, generators, traction power, power distribution boxes, high-voltage lines etc.



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MADE IN GERMANY

