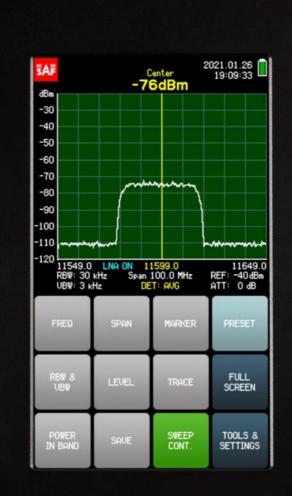
**S**A**F** 

# Spectrum Compact

## PAY LESS TO BECOME AGILE

spectrumcompact.com



4



## SAF Tehnika Has 20+ Years of Experience in Wireless Link Deployment





**SAF** 

## Use Spectrum Compact for a Variety of RF Field Tests



## Perfect T&M Solution for RF Field Tests

dBm -30 -40 -50 -50 -50 -70 -80 -90

12:31

Fits in your hand, pocket or harness

Completely stand-alone in the field mode

Instant ON and data logging

Works perfectly with gloves

Battery time up to 4 hours



# We offer a Complete and Customizable RF Solution Tailored to Your Needs

#### Spectrum Manager PC Software & API



## CONTROL DATA

No extra software costs and integration with 3<sup>rd</sup> party software via API

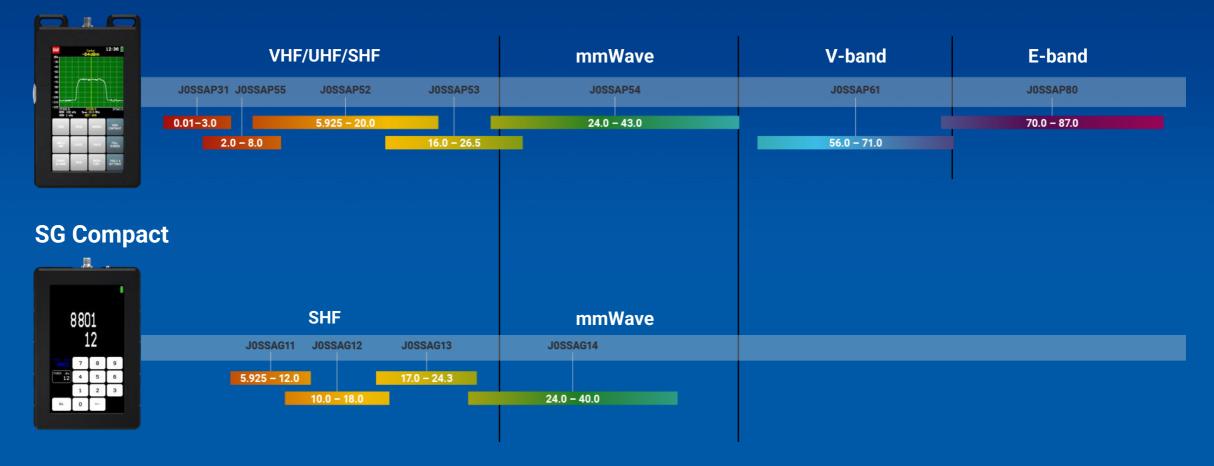
- Standard 1 year guarantee with the option to get an extension and experienced tech support
- Quality assurance guarantees device performance in a -15-55°C (5-131F) range



## Pay Only for the MW Range You Actually Use



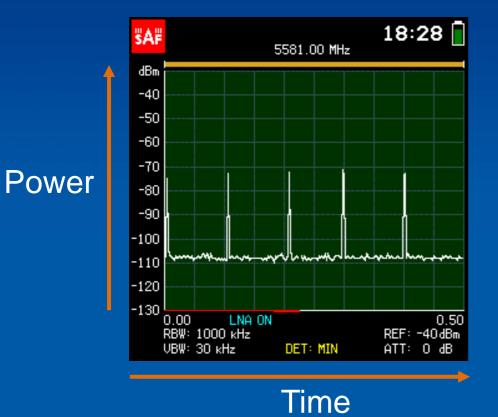
#### Spectrum Compact



## Zero-Span Feature for Spectrum Compact v2



### Zero-Span view



### Applications

- External PIM hunting
- Detection of TDD signals, e.g. Wi-Fi, 5G, LoRa
- Channel power measurement for narrowband signals
- Satellite antenna alignment



## Save Time by Making Informed RF Decisions

**Case Study:** Interference Hunting with Spectrum Compact

#### **1. CHALLENGE**

The client's crew encountered a **high signalto-noise ratio**. Possible cause – **interference**.

The source of interference might be tricky to locate by sight, especially in dense urban planning, and **a multimeter can't help**.

#### 2. SOLUTION

The client opted for Spectrum Compact equipped with a directional horn antenna.

Spectrum Compact was used to **follow the interference** signal and **locate its source**.

Stand-alone and lightweight, it allowed staying **mobile without interrupting measurements**.

#### **3. RESULTS**



The clients report

40-70%

savings on time-related costs when spectrum analyzers were introduced for RF testing Our main challenge is to increase base station capacity by **detecting and eliminating any interference problems** in the backbone pointto-point radio network.

Spectrum Compact is a **great tool** that has significantly **decreased our interference problems**.



- Gunars Afonins, Deputy Head of Transmission Division, LMT



## Save on Equipment Without Slowing Down the Work

**Case Study:** Site Inspection with Spectrum Compact

#### **1. CHALLENGE**

The client proceeded with purchasing Spectrum Compact that, due to its great price, allows equipping more engineers with a spectrum analyzer.

2. SOLUTION

The team on site set it as quick as the time needed to attach the antenna: first results received within 30 sec of pressing the ON button

#### **3. RESULTS**

SAF



Spectrum Compact provides everything necessary for the site inspection and

### costs 6 times less

than mmWave portable analyzers

The client's mmWave radio link was not functioning, and the crew had no clear idea why.

The team only had funds to acquire the sole expensive portable analyzer, which was rarely available. It was mostly used for basic tests, leaving most of its functions unused



Spectrum Compact is efficient and effective at the same time.

State.

The troubleshooting **saved us time** and was done from the ground level which made it exceptionally convenient for our field engineers

## **TELE2** – Līga Krūmiņa, CTO, Tele2



Case Study: Line-of-Sight Verification Spectrum Compact Solution

#### **1. CHALLENGE**

The client needed to confirm that the calculated link path is clear from obstructions in the first Fresnel zone: buildings, tree canopies, etc.



#### 2. SOLUTION

Our proposed solution was SG Compact on transmitting end and Spectrum Compact on the receiving end with **specifically designed line-of-sight antennas**.

This setup was used to confirm that Fresnel Zone is not obstructed. This is a **reliable way to test for obstructions, interferences and multipath effect**.



#### 3. RESULTS

SAF



#### SAF's tailor-made solution:

- made using Spectrum Compact even more precise and time-efficient
- came with the solution guide that deals with common problems



We were so impressed with the loaned device that we bought our own spectrum analyzer.

It will **pay for itself with the time saved** on installing and servicing microwave equipment.



– **Don Clowdus**, CEO, Arbuckle Communications



## **SAF**

## Thanks!

#### SAF Tehnika JSC

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