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RF SUITE RECORDER & PLAYER

Your new radio frequency
best tool on the market.

contact@arcale.net
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ARCALE is a subsidiary
of SPHEREA Group

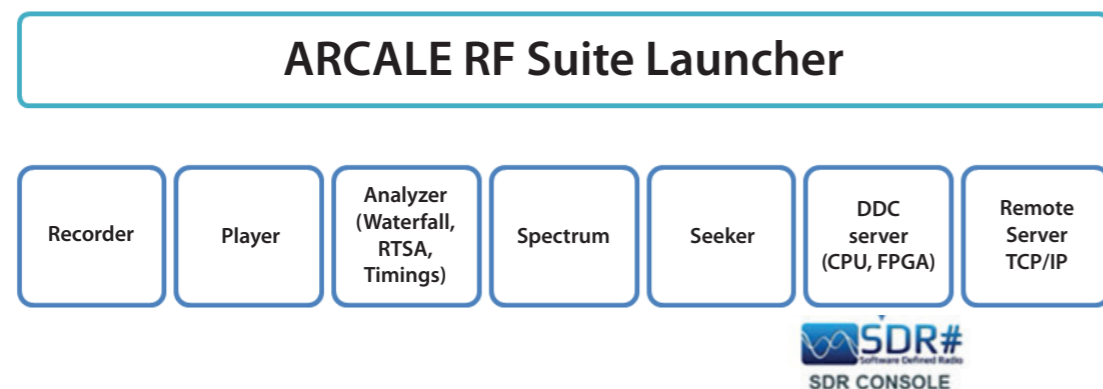


Introduction

ARCALE RF Suite is a modular software, allowing acquisition, recording, playback, generation and analysis of RF signals.

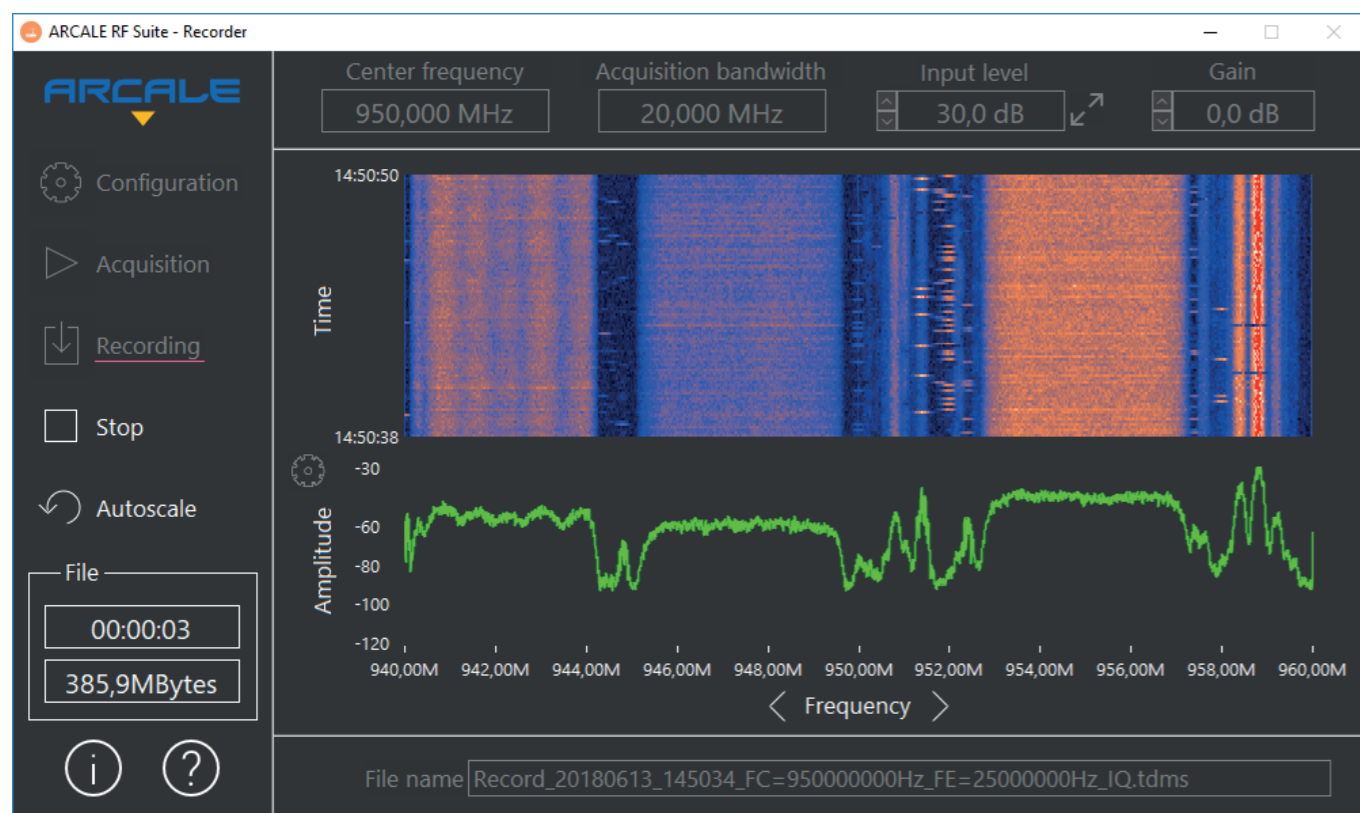
Easy to configure and set-up, ARCALE RF Suite supports National Instruments Hardware, SignalHound and AirSpy.

The Suite consists of different softwares modules :



Application fields

- Spectrum monitoring : record and playback of a specific frequency band or signal.
- Electromagnetic intelligence : record and analysis.
- R&D : scenario record and playback for test conformity.
- RADAR : high width frequency recording.
- IOT : scenario record and playback.



The functionality provided in the ARCALE RF Suite software does not relate to operations invading privacy, the offenses of which are provided for in article R226-3 of the Criminal Code.

Specifications

Supported Hardwares

National Instruments VSA :

- NI PXI-5661
- NI PXIe-5663/65/67/68
- SCOPE (5142, 5622, 5624)

National Instruments VSG :

- NI PXI-5671
- NI PXIe-5672/73

National Instruments FlexRIO :

- NI PXIe-5745/75/85

FlexRIO Coprocessing :

- NI PXIe-7915

National Instruments VST :

- NI PXIe-5644/45/46
- NI PXIe-5840/41

National Instruments RF Frontend :

- NI 579x + FlexRIO



National Instruments USRP :

- NI USRP-292x
- NI USRP-293x
- NI USRP-294x
- NI USRP-295x

National Instruments Amplifiers :

- NI PXI-5690/91
- NI PXIe-5698

AirSpy :

- HF+, R2 & Mini

Signal Hound :

- SA44B, SA124B & BB60C

Ettus Research :

- USRP B205 Mini

System requirements

- Intel Core i5 CPU
- 8 GB RAM
- SSD or RAID hard drive

- Windows 7 & 10 (32-64 bits) OS
- LabVIEW 2019 Runtime and drivers

Technologies

- LabVIEW
- FPGA
- Read/Write on high performance hard disk
- Automatization

- Object oriented programming
- Modern IHM
- Timestamp GPS (if available)
- Software Defined Radio (SDR)

Standard Configuration

Portative system:

- 1 Laptop
 - 2 TB SSD hard drive
 - 1 NI USRP-2920
- Record 20 MHz Bandwidth signal during 5h

High performance PXI System:

- 1 NI PXIe-1085 Chassis
 - 1 NI PXIe-8880 Controller
 - 1 NI PXIe-5668 VSA
 - 1 NI HDD-8266 Rack RAID
- Record 200 MHz Bandwidth for 6h.

Transportable PXI system:

- 1 NI PXIe-1075 Chassis
 - 1 NI PXI-8840 Controller
 - 1 NI PXIe-5644 Signal Transceiver
 - 1 NI HDD-8261 Rack (SSD)
- Record 80 MHz Bandwidth signal 2h.

On request, we can also personalize our product and customize it for your specific needs.