

Focused on your critical systems



RF SUITE RECORDER & PLAYER

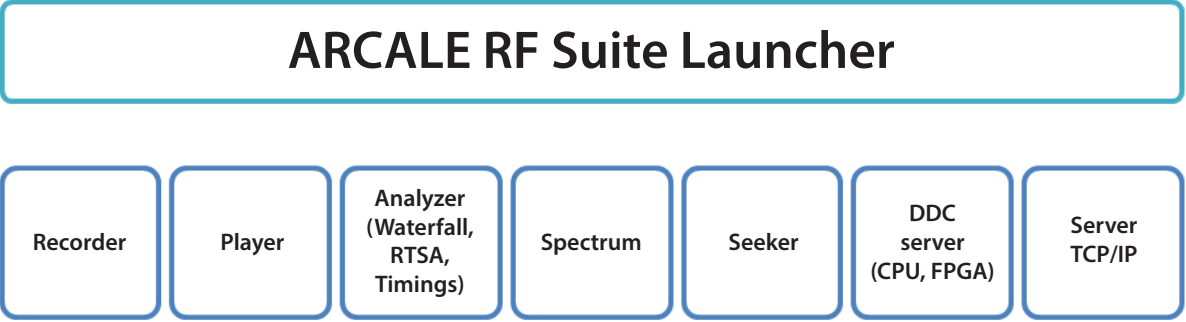
Your new radio frequency
best tool on the market.

Introduction

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

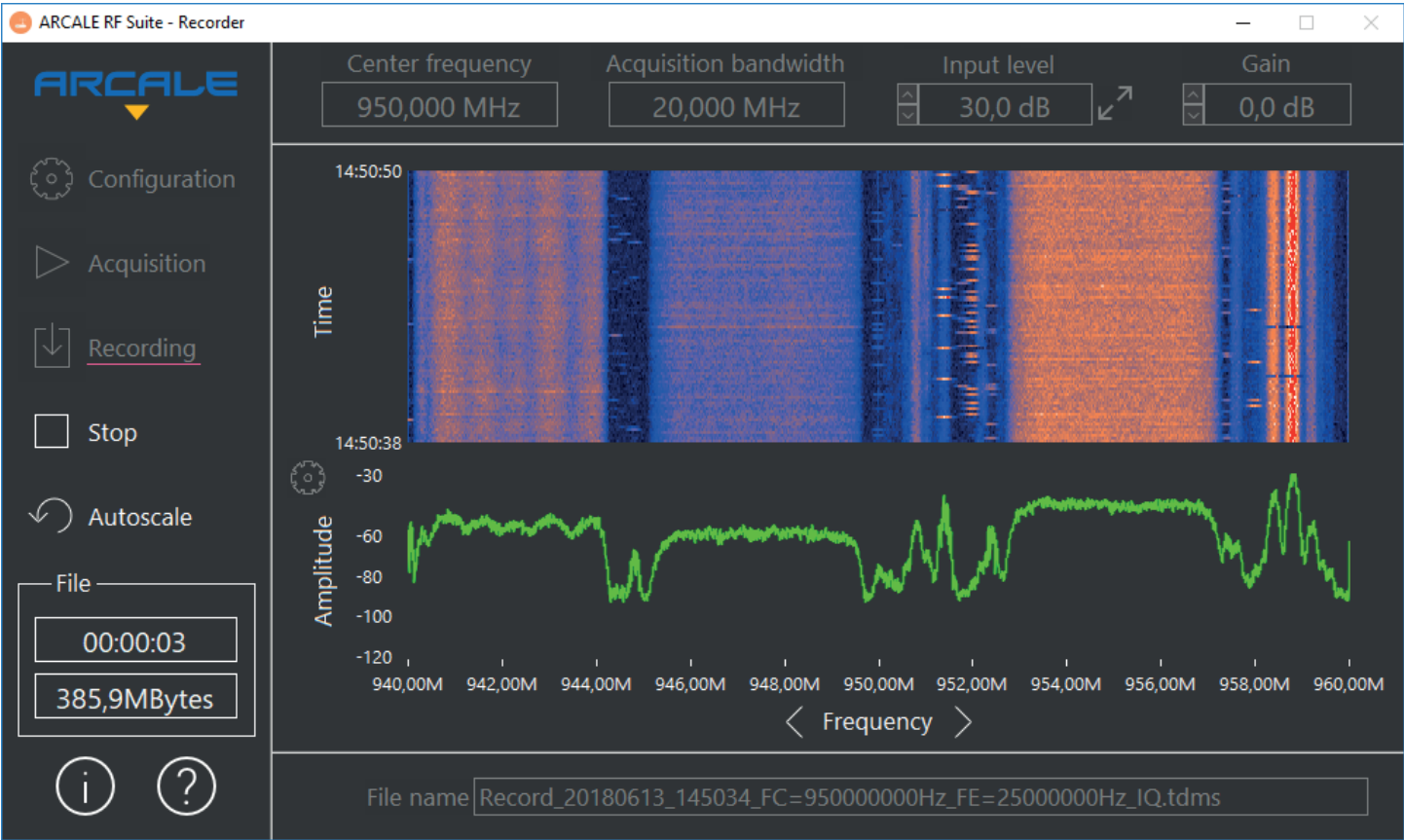
Easy to configure and set-up, ARCALE RF Suite supports National Instruments Hardware, SignalHound and AirSpy.

The Suite consists of differents 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.



Specifications

Supported Hardwares

National Instruments VSA :

- NI PXI-5661
- NI PXIe-5663
- NI PXIe-5665
- NI PXIe-5667
- NI PXIe-5668 (200MHz)
- SCOPE (5142, 5622, 5624)

National Instruments VSG :

- NI PXI-5671
- NI PXIe-5672
- NI PXIe-5673

AirSpy :

- HF+, R2 & Mini

Signal Hound :

- SA44B, SA124B & BB60C



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-290x
- NI USRP-294x
- NI USRP-295x

National Instruments Amplifiers :

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

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)
- Radio Software (SDR)

Standard Configuration

Portative system:

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

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.

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.

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

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.