



Secure and make critical systems
more reliable and contribute to a safer world

Participate in innovation
having a positive impact on the environment

Acting in kindness

Develop and transmit

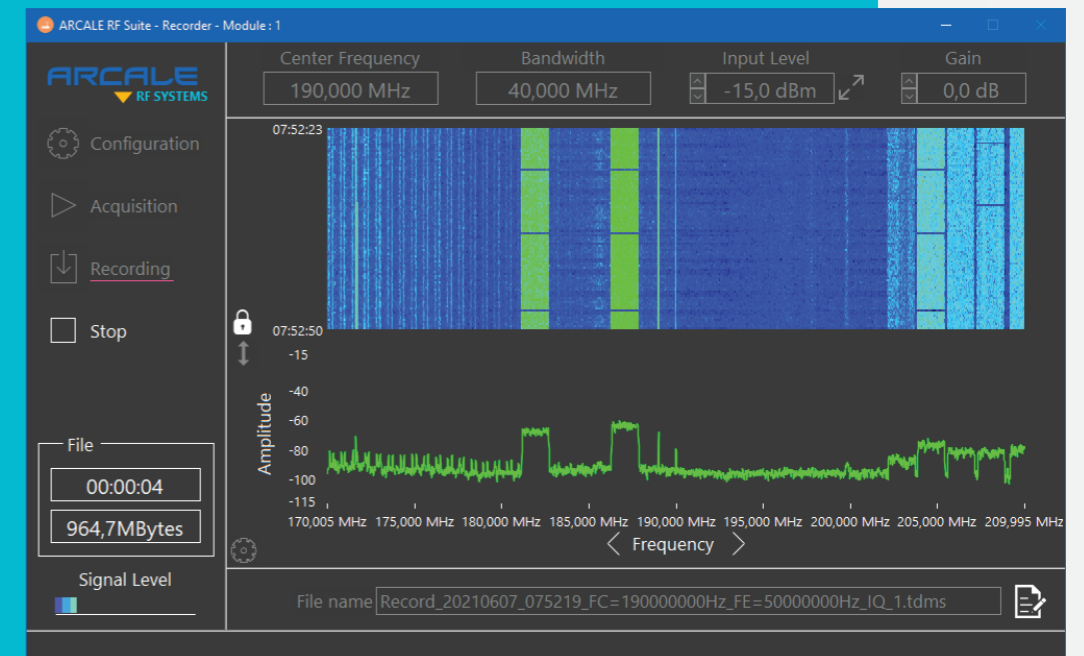
Ensuring business ethics

Our stakeholders involved
partners & shareholders

R F & H Y P E R

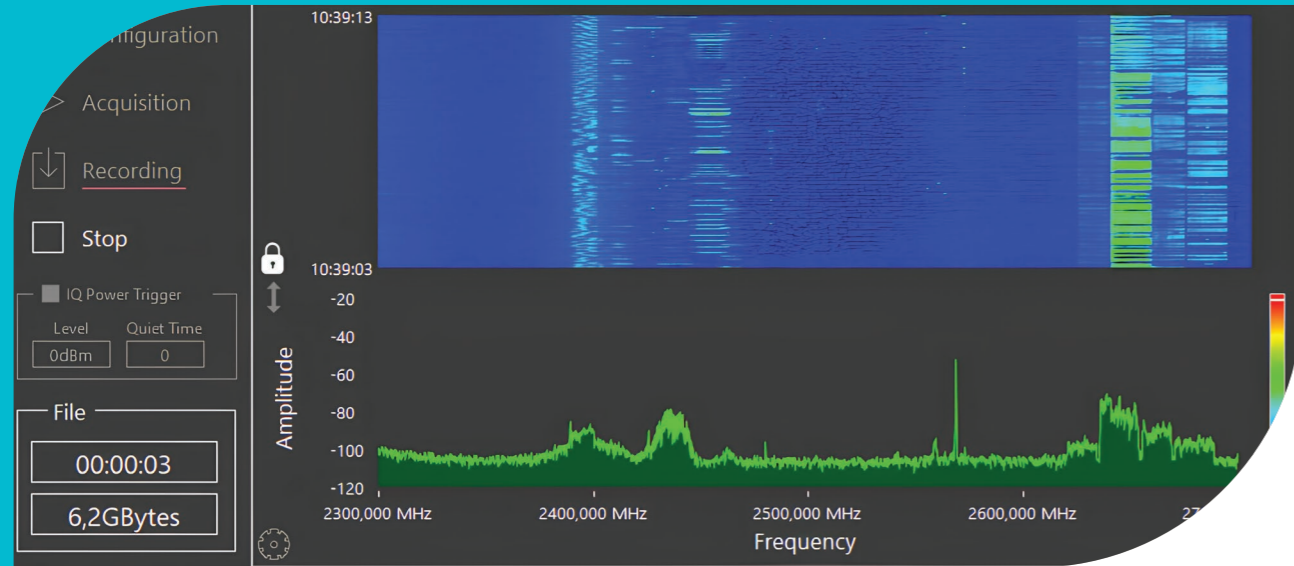
RF Suite

Your new radio frequency best tool on the market
All-in-one









ARCALE RF SUITE

is a modular software allowing various tasks on RF signals. Easy to configure and set-up, ARCALE RF Suite supports AirSpy, SignalHound, Tektronix, Harogic and National Instruments hardware.



The Suite consists of different software modules :

-  **Recorder**
Supports multiple hardware platforms
-  **Seeker**
Signal seeker based on spectrum parameters
-  **Player**
RF Signal Generator
-  **Radar**
Generation of radars signals with hardware optimization
-  **Analyzer**
Signal analysis of IQ files or from hardware
-  **DDC Server**
CPU or FPGA up to 512 ch included IQ recorder
-  **Spectrum**
Easy to use RF Spectrum analyzer with GPS timestamp & position

APPLICATION FIELDS

-  **SPECTRUM MONITORING**
recording and replaying a band of interest or event
-  **RADAR**
very wide band recording
-  **SIGNAL INTELLIGENCE**
detection, recording and analysis
-  **LABO R&D**
recording and replaying a mastered scenario in order to test your systems
-  **IOT**
scenario recording and replay

Specifications

Supported Hardwares

National Instruments VSA :

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

National Instruments VSG :

- NI PXI-5671/72/73

National Instruments VST :

- NI PXIe-5644/45/46
- NI PXIe-5840/41
- NI PXIe-5830/31

National Instruments FlexRIO :

- NI PXIe-5745/75/85/64

National Instruments Amplifiers :

- NI PXI(e)-5690/91/98 & SCT SC2215

National Instruments USRP :

- NI USRP X410
- NI USRP 292x / 293x
- NI USRP 294x / 295x
- NI USRP 2974



FlexRIO Coprocessing :

- NI PXIe-6592
- NI PXIe-7915/75/76

Ettus Research USRP :

- B205 Mini

Signal Hound :

- SA44B/124B
- BB60C
- SM200x

Harogic :

- SAM-60, SAM-80, SAE-90
- SAE-200 & SAN-400

Tektronix :

- RSA306B
- RSA5xxA

AirSpy :

- HF+, R2, Mini via Spyserver

System requirements

- Intel Core i5 CPU
- 8GB RAM
- Stockage SSD or RAID
- Windows 10 & 11 (64 bits) OS

Performances

- Up to 1GHz bandwidth streaming
- Multi Rx/Tx synchronization (if available)
- Timestamp and trigger GPS (if available)
- Up to 96 TB storage
- Automatization, remote control



CONFIGURATION

RF SYSTEM 1U

- 1Tx + 1Rx 12MHz Bw or 1 or 2 Rx 100MHz Bw
- 9k-6G/8G/20G/40GHz
- Up to 8TB SSD
- Core i7, 16Go RAM, 2.5Gb Ethernet

RF SYSTEM 3U

- 2Tx + 2Rx 160MHz Bw or 4Rx 80MHz Bw
- 10M-6GHz (HF optional)
- Up to 8TB SSD (96TB external)
- Core i7, 16Go RAM, 2.5Gb Ethernet