

Package “nsliqrecorder”

Description:

The package "nsliqrecorder" consists of several single script files. It allows the user to setup and start/record the IQ streams by using SignalShark SCPI commands and save them as an IQ WAV file. The WAV file format is a universal format supported by many monitoring software products and SDR programs.

How it works:

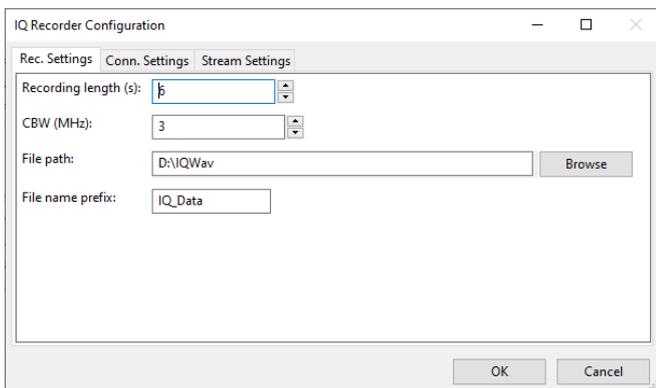
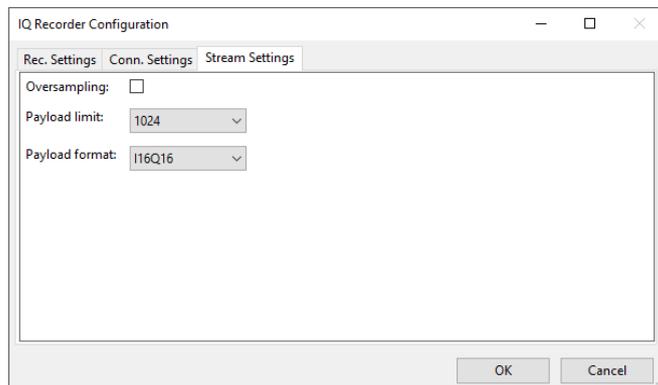
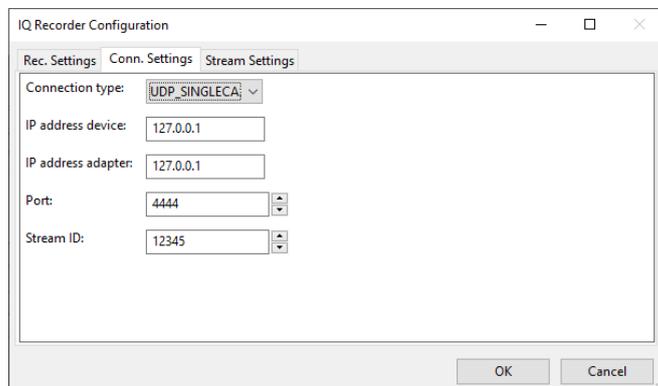
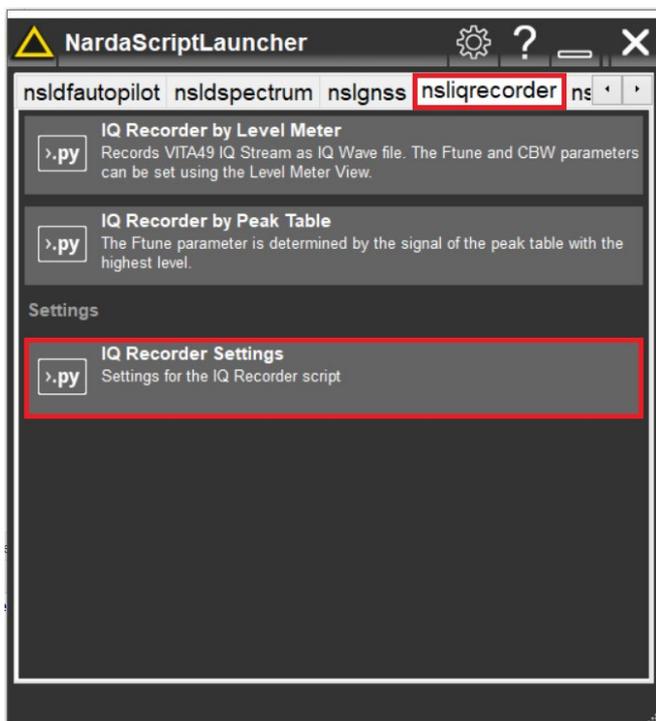
The package “nsliqrecorder” works as follows:

1. The “iqreqsettings.py” script is used for basic settings of the IQ stream recording in a dialog window. It asks the user for recorder settings, connection settings, and stream settings. Input parameters like IP addresses, recording length, CBW, file saving details, payload format, etc., are taken from the user, and saved in a text file in the project directory.
2. The script “iqreclevelm.py” reads the IQ recorder settings from the text file generated by the “iqreqsettings.py” script and uses the level meter to specify the center frequency and the bandwidth of the signal to be saved. It then calls the IQ recorder function to save the WAV file in the destination path provided in the settings file.
3. The script “iqrecptab.py” reads the IQ recorder settings from the text file generated by the “iqreqsettings.py” script and asks the user to set a threshold for trigger. In this script, the signal of the peak table with the highest level determines the tune frequency parameter for IQ recording. It then calls the IQ recorder function to save the WAV file in the destination path provided in the settings file.

Procedure

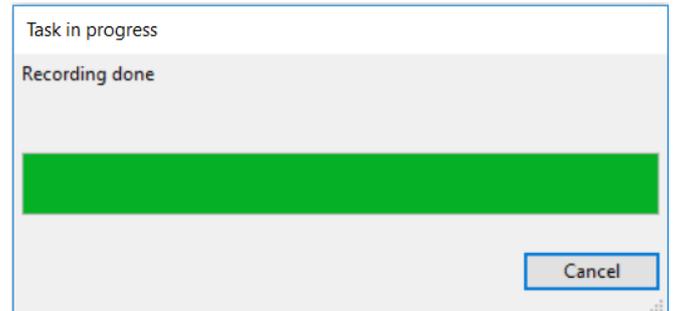
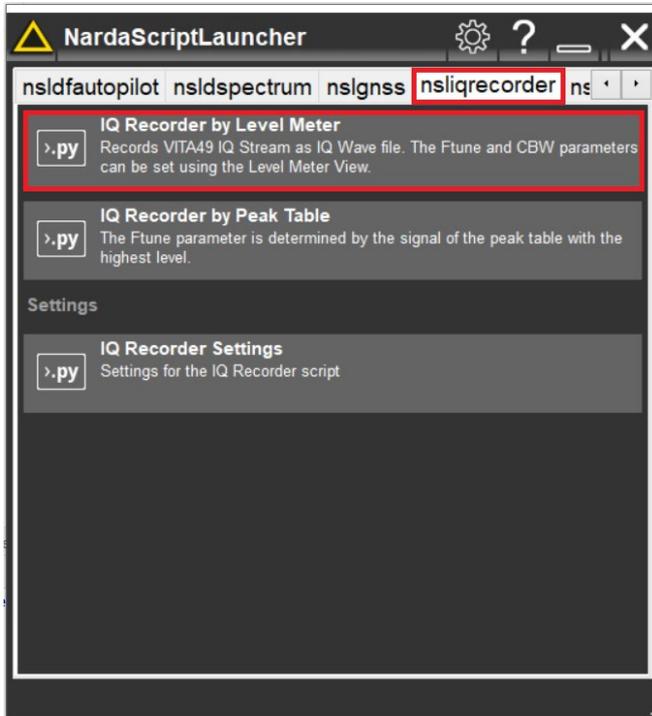
IQ Recorder Settings

1. Open the Narda Script Launcher application and select the "nslqrecorder" tab.
2. Select the script "IQ Recorder Settings".



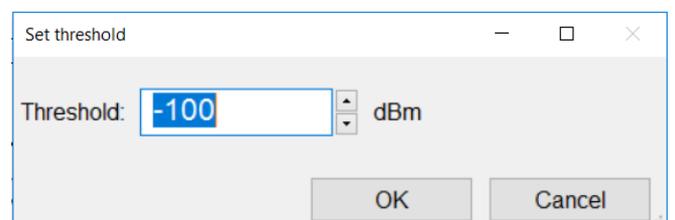
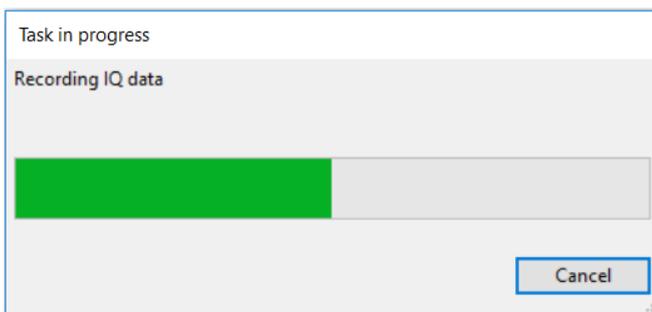
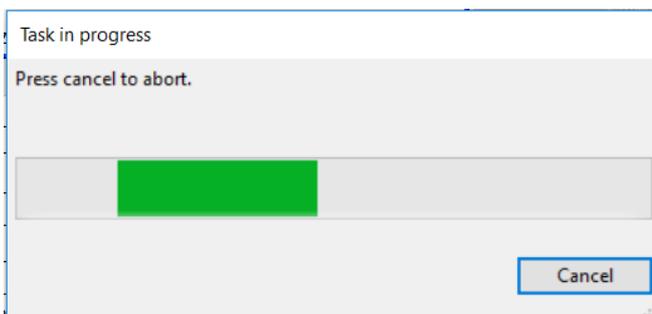
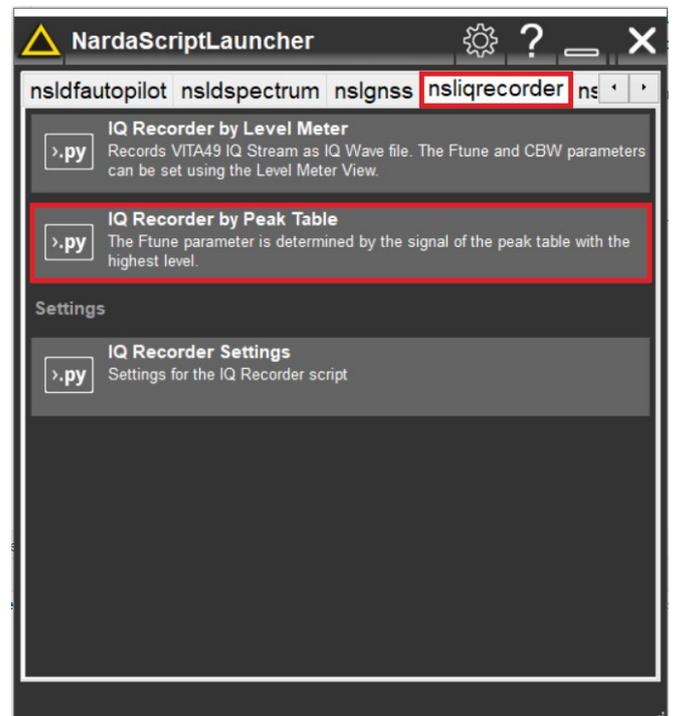
IQ Recorder by Level Meter

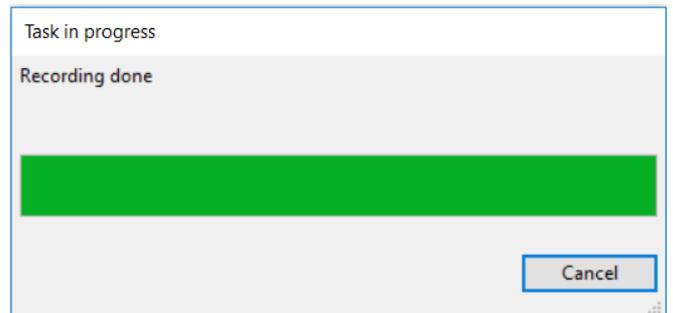
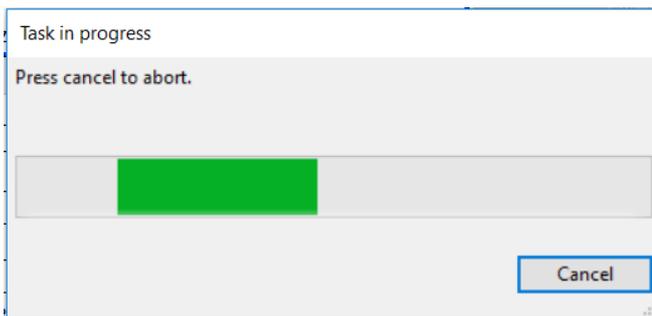
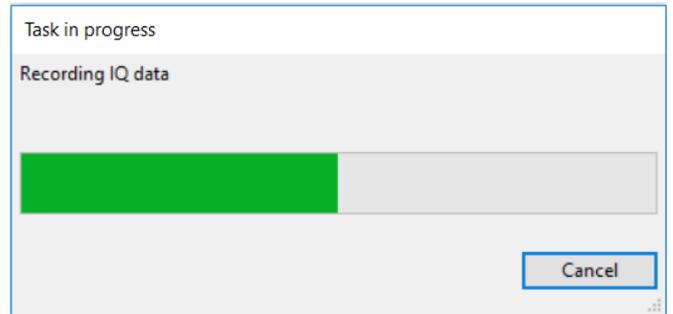
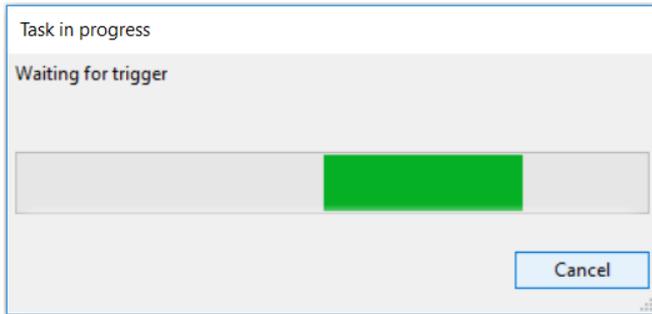
8. Open the Narda Script Launcher application and select the "nslqrecorder" tab.
9. Select the script "IQ Recorder by Level Meter":



IQ Recorder by Peak Table

14. Open the Narda Script Launcher application and select the "nslqrecorder" tab.
15. Select the script "IQ Recorder by Peak Table":





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