

# SDRSharp – EasyScanner Plugin

## installation notes

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to get the plugin running

- copy SDRSharp.EasyScanner.dll into the SDRSharp directory
- edit SDRSharp.exe.config
  - goto **<sharpPlugins>** section and add one line as described below

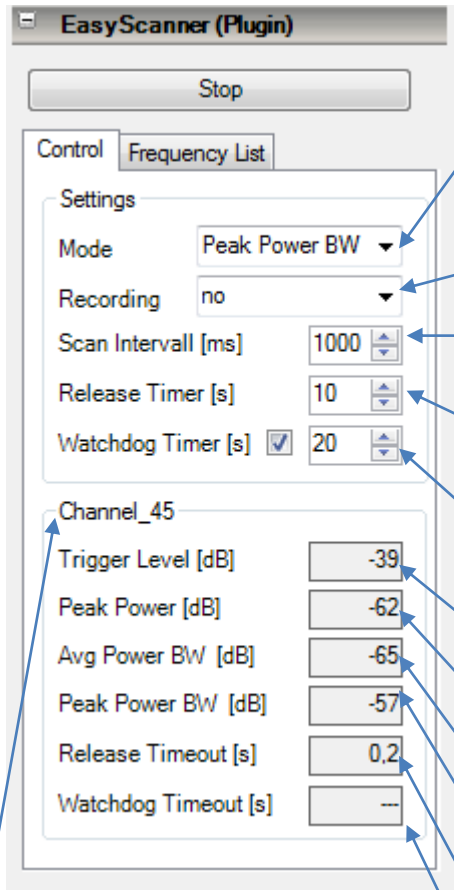
```
<sharpPlugins>  
  <add key="EasyScanner" value="SDRSharp.EasyScanner.EasyScannerPlugin,SDRSharp.EasyScanner" />  
</sharpPlugins>
```

Tested with

- WIN7, 64Bit
- SDRSharp Continuous Integration, Last Changed Rev: 1111
- Terratec NOXON DAB/DAB+ USB dongle (rev 1)
- ezcap USB 2.0 DVB-T/DAB/FM dongle

# SDRSharp – EasyScanner Plugin

## gui elements & short description - control tab



Three modes of comparing the given trigger level.

- peak power of the tuned frequency
- the average power level in the channel bandwidth
- peak power within the channel bandwidth (works well if oscillator is drifting)

The waverecorder plugin is used to record automatically the iq/audio stream . Recording is only active as long as the receive level is above the given trigger level. Configure the waverecorder plugin to your needs before enable the recording.

Scan time of one frequency, move on to next frequency after this time if receive level is below the given trigger level

If receive level is above the given trigger level, the current frequency stays tuned. Only If the receive level goes below the given trigger level for the complete release threshold time, scanning goes on

The watchdog works independet from the release timer, whenever a channel seized the timer is started. Scanner goes to next frequency if watchdog timer is elapsed regardless the current receive level.

Trigger level derived from the scanlist entry

Current peak level of the tuned frequency

Current average receive level in the bandwidth

Peak power receive level in the channel bandwidth

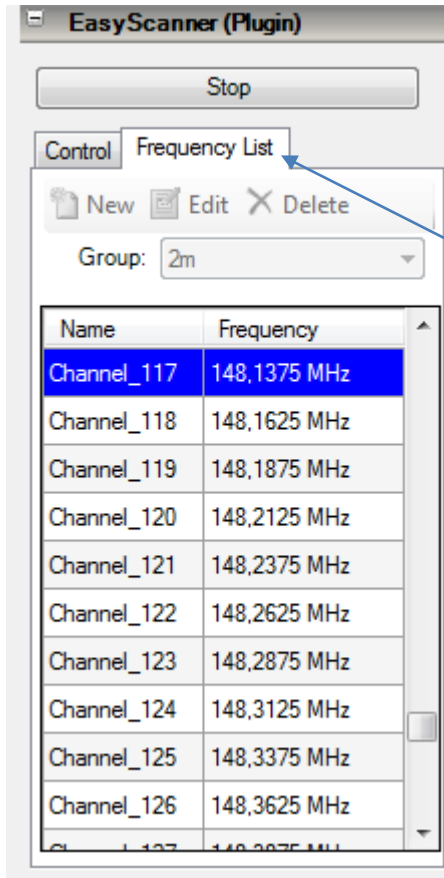
Current valueof the calculated timeout bevor moving on to next frequency in the lis

Current valueof the calculated watchdog timeout

Active channel name derived from the scanlist entry

# SDRSharp – EasyScanner Plugin

gui elements & short description - frequency list tab

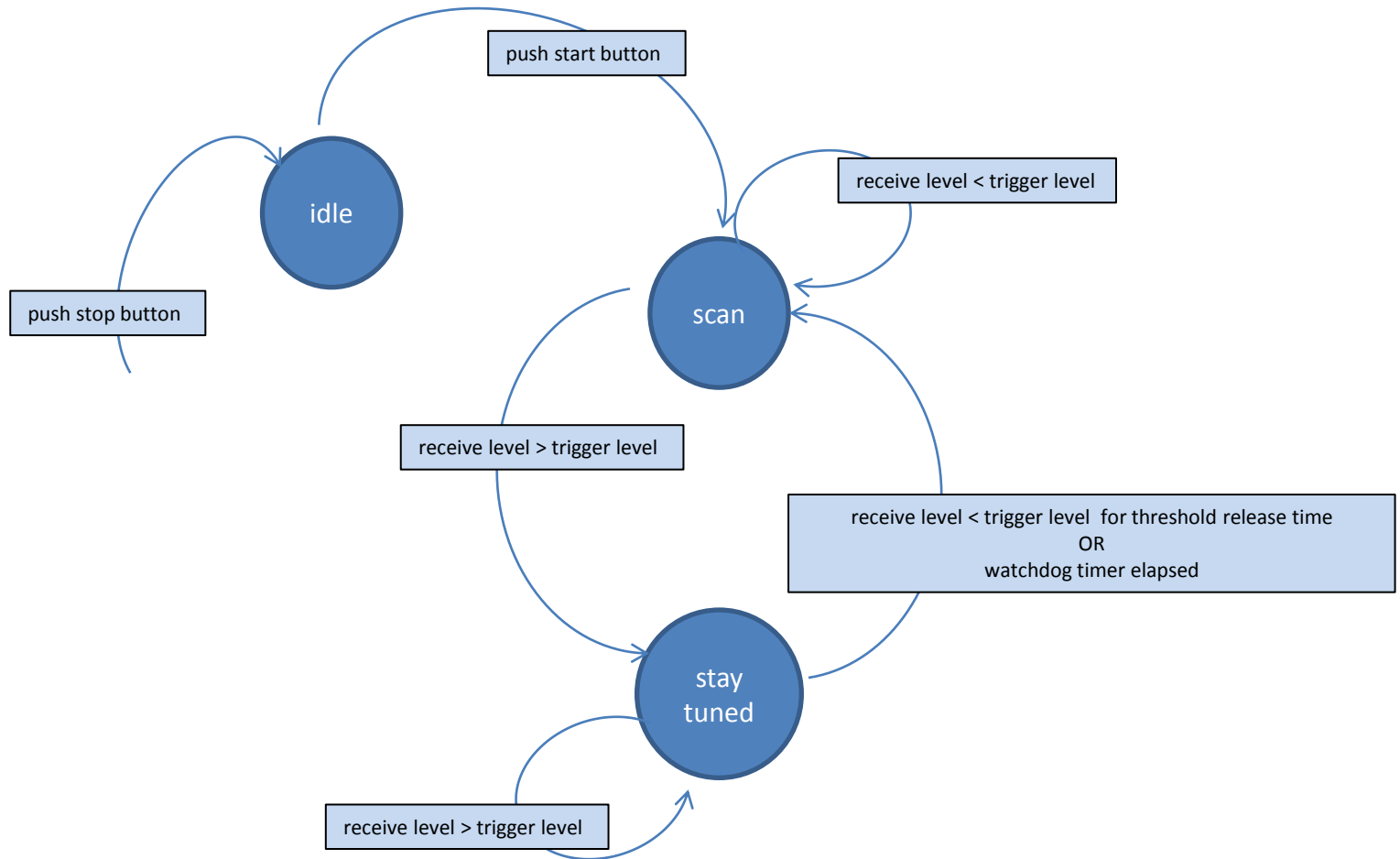


Scan list Manager, same operations as frequency manager plugin. only a few changes

- new field for trigger level
- filtered list (=displayed) list is taken as scanlist
- current tuned frequency is highlighted in the list (blue = scan, green = stay tuned)

# SDRSharp – EasyScanner Plugin

states of operation



# SDRSharp – EasyScanner Plugin

## version history

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- v01 – 25.01.2013
  - 1st public version (called Scanner Plugin)
- v02 – 07.02.2013
  - rename to EasyScanner Plugin
  - add peak power bandwidth mode
  - add watchdog timer

# SDRSharp – EasyScanner Plugin

notes

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Contact

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EasyScanner Plugin Source Code

- <https://www.assembla.com/code/sdrsoft/subversion/nodes>

EasyScanner Plugin Releases

- <https://www.assembla.com/code/sdrsoft/subversion/nodes/trunk/EasyScannerPlugin/release>