

Radio Visualiser: Quick Start Guide



Introduction

Radio Visualiser is used to monitor link performance and manage multiple Doodle Labs radios.

This guide shows how to install it, connect to a radio, and confirm link health.

Prerequisites:

- 1) Windows 10/11 / Linux
 - Linux users should refer to distro documentation
- 2) The Radio Visualiser installer
- 3) A powered and functional Doodle Labs Radio.
- 4) Each Radio's IP address.
- 5) Your Subterranean Login credentials

Step by Step Guide

1. Download & Install

- 1.1. **Download:** Log in at subterranean.ie/login and download the installer for your OS.
 - **Note:** If you are using Linux you will need to run "chmod +x ./RadioVisualiserInstaller" to turn the file into an executable.
- 1.2. **Run:** Double-click the installer and follow the prompts.
- 1.3. **Finish:** The installer closes automatically when complete.

2. Initial Setup:

- 2.1. **Launch:** Open Radio Visualiser.
- 2.2. **Login:** Sign in with your Subterranean account.
- 2.3. **Power On:** Ensure your Radio is powered, and your PC is on the same network.

See Doodle Labs' [Getting Started documentation](#) if you need help connecting

3. Pair your Radio with the Radio Visualiser

- 3.1. **Add Radio:** Click the + (Plus) button under Radio Library.
- 3.2. **Identify:** Assign a Name and Icon (recommended for fleet management).
- 3.3. **Set the Network:**
 - Enter the radio IP address into the 'Host' box.
 - Enter a username and password
- 3.4. **Confirm: Click Add.**

See [Doodle Labs' guide for credential setup](#) if you need help setting up radio device login details.

Radio Link Status

The signal icon indicates link quality based on the Signal-to-Noise Ratio (SNR):

Icon	SNR Value	Status
1 Red Bar	< 10	Poor
2 Orange Bars	11–19	Fair
3 Green Bars	20–29	Good
4 Green Bars	> 30	Excellent
4 Grey Bars	N/A	Connected (No Associations)
Crossed Out	N/A	Connection Failed

Updating Settings

The Radio Visualiser enables you to adjust the settings to improve performance across your fleet of devices.

Adjust values as needed:

- **MCS:** Data transmission quality.
- **Power:** Output power (dB).
- **Frequency/Channel/Bandwidth:** Spectrum and data volume.

Apply: Click **Set**. The icon will spin and turn into a **Tick** once confirmed. The "Time Since" timer will reset to 0.

Other UI

- **Associations:** View connected radios

- **Information:** View device details

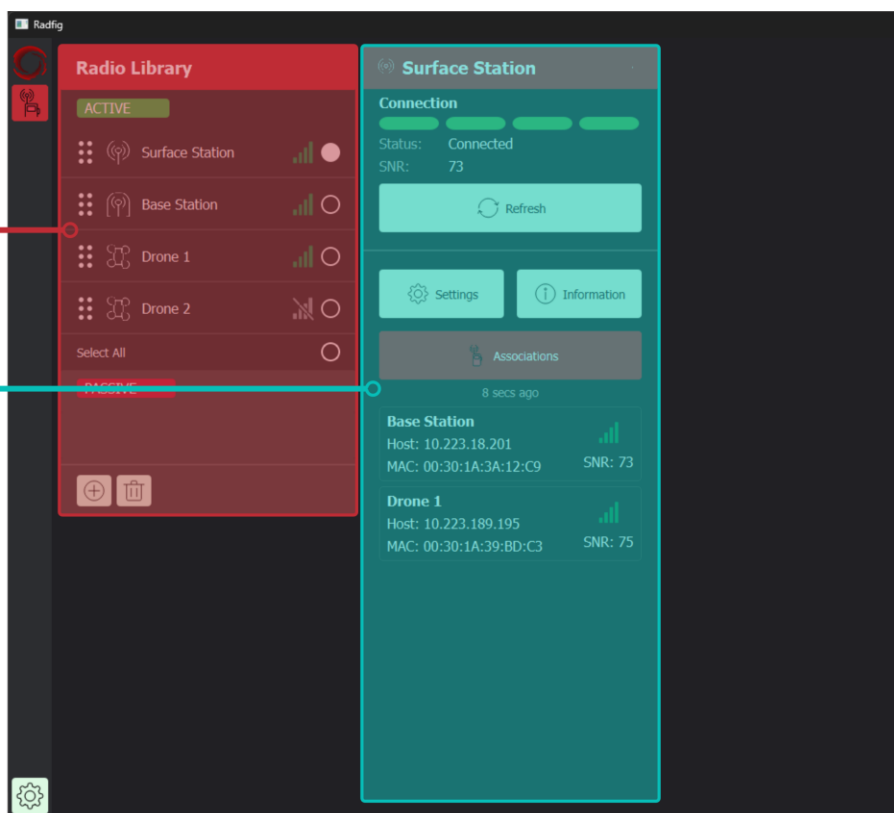
Layout Overview

Drawer 1: Radio Library

- Radios detected on the local network
- Grouped by connection state (Active / Passive)

Drawer 2: Radio Configurator

- Configuration for the selected radio
- Manage links and network behaviour



Troubleshooting/FAQs

- **Updates:** Download the latest version from [Subterranean.ie](https://www.subterranean.ie).
- **Network Setup:** For details on how to connect to your Doodle Labs radio see Doodle Labs' [Getting Started documentation](#).
- **Offline Use:** No internet required; the tool runs entirely on your local network.
- **Missing Data:** MCS and SNR will not display if the device has no active associations.
- **Bugs:** Report issues to support@subterranean.ie.