# Title Page

**RF Spectrum Analyzer Manual**

**RF Explorer Handheld Spectrum Analyzer**



## Publication Number

AFSL-2017-XX

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## System Name

RF Explorer Handheld Spectrum Analyzer

## Model Number

RF Explorer Handheld Spectrum Analyzer

## Date of Issue

February 28, 2017

# Record of Manual Revisions

Table 1: Record of manual revisions

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Revision** | **Date** | **Pages Affected** | **Revisions** | **Author** | **Check** | **Approved** |
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# Table of Contents

Contents

[1. Title Page 1](#_Toc476054510)

[1. Publication Number 1](#_Toc476054511)

[2. System Name 1](#_Toc476054512)

[3. Model Number 1](#_Toc476054513)

[4. Date of Issue 1](#_Toc476054514)

[2. Record of Manual Revisions 1](#_Toc476054515)

[3. Table of Contents 2](#_Toc476054516)

[4. Nomenclature & Glossary 3](#_Toc476054517)

[5. Introduction 3](#_Toc476054518)

[1. SList of Standards Used for Design and Construction 3](#_Toc476054519)

[6. General Information and System Description 3](#_Toc476054520)

[7. Normal Operations 3](#_Toc476054521)

[1. Storage Location 3](#_Toc476054522)

[2. Equipment Set-up 3](#_Toc476054523)

[3. Main Screen 3](#_Toc476054524)

[4. Menus 4](#_Toc476054525)

[5. Software Set-up 4](#_Toc476054526)

[6. Equipment Tear-Down 4](#_Toc476054527)

[8. Bibliography 4](#_Toc476054528)

# Nomenclature & Glossary

Table 2: Nomenclature and glossary of terms

|  |  |  |
| --- | --- | --- |
| **Term** | **Definition** | **Comment** |
| RF | Radio Frequency | None |
| SMA | SubMiniature Version A | Coaxial cable connector standard |

# Introduction

This document provides material on the standard operation of the RF Explorer Handheld Spectrum Analyzer.

## SList of Standards Used for Design and Construction

The structure of this manual does not follow a specified standard.

# General Information and System Description

The RF Explorer

# Normal Operations

## 1. Storage Location

The RF Explorer device is kept with its introductory guide and attachment antennae inside a hard-shell case, in the box labelled “Electronic Tools.”

## Equipment Set-up

Depending on the individual situation, the appropriate RF Explorer antenna should be attached to the primary SMA connector on the RF Explorer, which is the connector labelled “RF 50Ω.” The device will self-calibrate and will display a frequency spectrum, with a white marker which signals the amplitude at this reading.

## Main Screen

The main screen shows a marker with its associated frequency (top) and amplitude (bottom) values. Pressing the left and right arrows translates the frequency spectrum axis to the left or right, and the up/down arrows translate the amplitude graph up/down.

## Menus

The RF Spectrum Analyzer has several menus which can be cycled through by pressing the “MENU” key. The six menus cycle forward and will repeat. The frequency menu allows for adjustments of the frequency span and other options that affect the frequency spectrum graph. The attenuator menu achieves the same goal for the amplitude graphs. The operational mode menu changes the purpose of the RF Spectrum Analyzer – for the purposes of this guide, it should be set to “Spectrum Analyzer.”

## Equipment Tear-Down

The equipment should be unscrewed from the SMA ports and returned to the hard-shell case and returned to the Equipment Tools box in AFSL.

# Bibliography