

## *FM Micro Power Radio Guide*

### Disclaimer

The author has taken great care to see that the information contained here is accurate, but takes no responsibility for its accuracy. Also, some of the procedures described may be illegal to use on the open airwaves. It is the readers responsibility to consult the FCC or other relevant government body before use. This book is meant for informational purposes only.

### Preface

This book was written to add to the public knowledge the information necessary to create and operate a micro power FM radio station. It is not intended to help someone break a law or cause interference with other radio operators and services. It is intended as a starting point or a guide to educate ones self in the correct construction and operation of a micro power radio station. Many of the current newspapers, radio and TV stations are being bought up and controlled by just a few large corporations, micro power radio could soon be one of the only avenues of expression for the average person.

The biggest problem facing the micro power radio movement is the limited availability of high quality radio equipment. For the average U.S. citizen, it is easier to get an AK-47 than a radio transmitter suitable for micro power radio. This book tries to remedy that by offering easy to build projects and lots of sources useful to the micro power radio enthusiast.

So if you have seen Pump Up The Volume fifteen times and dreams of being the voice of the North Dorm, or you are sick of the media censorship in your area and want to offer an alternative voice, look no further. With the help of this document, you can soon be armed with an RF cannon able to blast electro- magnetic waves into the air of your community.

### Version Info

This document is currently under development. Any ideas, comments, or information relevant to this subject would greatly be appreciated.

The information contained in this document is the result of many hours of experimentation. I have burned many parts trying out different designs, and spent many hours reading radio electronics books and trying to figure out what they meant. So don't get discouraged if you don't get it to work the first time, they usually won't. Try to understand how things work, it will make your life much easier when you want to improve or change a circuit.

Included in this document are recommendations on equipment to have, basic radio station design, antenna design, amplifier design, legalities and part 15, ideas on programming and a section on how to avoid trouble.

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