

## A Radio Revolution – Eton E1XM

By Larry Van Horn, N5FPW  
MT Assistant Editor

**T**here is a radio revolution taking place and the leader of that revolt is a new entry into the shortwave portable market, the Eton E10XM.

The E10XM, part of the new Eton Elite Series, is the world's first radio to combine AM, FM, Shortwave, and XM Satellite Radio™ technology into one unit. The E10XM offers reception through a digitally synthesized PLL tuner with a synchronous detector, passband tuning, and selectable bandwidth filters. Manufactured in India (not China) it has 1,700 station presets, and a robust memory scan function.

But more importantly, and what sets this radio above any other portable in the marketplace today, is the plethora of features, level of performance, and inclusion of the XM satellite reception capability, all in one neat and trim package.

### ◆ Inside the Box

The first thing I noticed when I took the E10XM out of the box was a sleek, well-built portable radio. Gone are the huge boom box and quality control issues of its predecessor, the Grundig Satellite 800. The case appears to be made of a type of hard plastic. The ergonomics are good, though some of the buttons on the front of the radio are a bit on the small side.

Applying power and tuning around in the AM/FM bands, I was impressed with the excellent audio heard. Tuning through both broadcast bands, I noted that signal levels were good (especially in the FM broadcast spectrum). The bass and treble controls allowed for a wide range of adjustment to set the audio just right for the station being received. The use of selectable filters (2.3, 4.0 and 7.0 kHz) regardless of mode is something you don't normally see on most portable radios and is a welcome feature. A DCK soft key turns on a preamp to improve reception on weaker signals.

As I dug deeper into the operation of the radio, I noted the feel of a Drake design. A call to Walter Hess, the technical support manager at Eton, confirmed that Drake did have a major hand in the electronics of this unit.

One of my chief complaints with many shortwave radios is their search-type "synchronous detection" feature. The E10XM has a selectable sync detector that actually works. In fact, it worked very well indeed. In the shadow



★★★★★  
MT Rating: 3 3/4 Stars

of nearby local stations, AM Sync allowed me to monitor weaker AM signals as close as 10 kHz away from the local station.

Another nice surprise was the Pass Band Tuning (PBT) control. This is well implemented, with a numeric indication on the display of where the control setting is set. It also does its job very well.

The AGC has a Slow/Fast and Auto mode which keep the AGC in fast mode while tuning so you don't miss weak signals. Though it works well, I would have liked to see an additional setting of "off."

Single Sideband (SSB) reception is also good. And as an extra bonus, there is a feature in the radio's menu system that allows you to enable or disable Enhanced SSB. When enabled, it adds another 40dB image rejection, which is a very nice feature.

As I mentioned above, the E10XM has 1,700 memories that can be used to store and recall commonly monitored frequencies. The first 500 are called "memory" channels and the remaining 1,200 are referred to as "Country" channels. These 500 memory channels can be scanned using the "seek" function which can stop on any stored channel with a predetermined squelch level.

The "Country" feature is used to enter all known signals from countries you listen to regularly. These country memories can be scanned using the TSCAN function to selectively monitor desired "memory" channels. The following receiver controls and information can be stored in each memory channel: frequency, mode, bandwidth, AGC and PBT settings, and synchronous detector settings.

### ◆ Antennas

You can choose from the internal antenna (whip) to an external antenna, using one of two slide switches on the side of the radio. One switch is for FM and one for HF (LW/MW/SW).

The manual states that a PA1 to female F-adapter is included for external antenna connection. This was not the case in the initial shipment from Eton. Mr. Hess says anyone wanting the adapter can contact Eton and they will be supplied with one. But if you don't want to wait on Eton for the adapter, you can pick one up from Radio Shack (MC78-365B) or buy a cable from Universal Radio that has an F to SO-239 connector.

And one final antenna note: this radio does not have a built-in ferrite loop antenna for LW/AM broadcast reception. According to Mr. Hess, the display was generating a lot of noise and they decided not to incorporate an internal antenna for those bands. Instead, you will be using the whip antenna or an external antenna (not included) if you want improved reception in those bands.

### ◆ The Display

Speaking of the display, it is a dot matrix type (which might explain the noise issue noted above), and it is nice, big and clear. You can adjust the brightness and contrast, or turn it off completely. You can choose between off, dim, medium or bright, using a multi-purpose switch on top of the unit. The display defaults to dim when turned off or you can turn it off completely when the AC adapter is used. With batteries, the display will turn the I off to save energy. And when it is off, it will display either the local or UTC time (if set).

### ◆ XM Radio

XM Radio is a subscription service, and

#### MT First Look Rating (0-10 scale)

|                                      |   |
|--------------------------------------|---|
| Audio Quality .....                  | 8 |
| Audio Levels .....                   | 8 |
| Back light/Display .....             | 5 |
| Battery Life .....                   | 7 |
| Ease of use .....                    | 7 |
| Feature Set .....                    | 8 |
| Keyboard/Button/Control Layout ..... | 7 |
| Overall Construction .....           | 8 |
| Overall Reception .....              | 7 |
| Overall Manual .....                 | 6 |

# Eton E1 Xm Manual

**J Elliott**



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## **Table of Contents Eton E1 Xm Manual**

1. Understanding the eBook Eton E1 Xm Manual
  - The Rise of Digital Reading Eton E1 Xm Manual
  - Advantages of eBooks Over Traditional Books
2. Identifying Eton E1 Xm Manual
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Eton E1 Xm Manual
  - User-Friendly Interface
4. Exploring eBook Recommendations from Eton E1 Xm Manual
  - Personalized Recommendations
  - Eton E1 Xm Manual User Reviews and Ratings
  - Eton E1 Xm Manual and Bestseller Lists
5. Accessing Eton E1 Xm Manual Free and Paid eBooks
  - Eton E1 Xm Manual Public Domain eBooks

- Eton E1 Xm Manual eBook Subscription Services
- Eton E1 Xm Manual Budget-Friendly Options
- 6. Navigating Eton E1 Xm Manual eBook Formats
  - ePub, PDF, MOBI, and More
  - Eton E1 Xm Manual Compatibility with Devices
  - Eton E1 Xm Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Eton E1 Xm Manual
  - Highlighting and Note-Taking Eton E1 Xm Manual
  - Interactive Elements Eton E1 Xm Manual
- 8. Staying Engaged with Eton E1 Xm Manual
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Eton E1 Xm Manual
- 9. Balancing eBooks and Physical Books Eton E1 Xm Manual
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Eton E1 Xm Manual
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Eton E1 Xm Manual
  - Setting Reading Goals Eton E1 Xm Manual
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Eton E1 Xm Manual
  - Fact-Checking eBook Content of Eton E1 Xm Manual
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks

## 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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