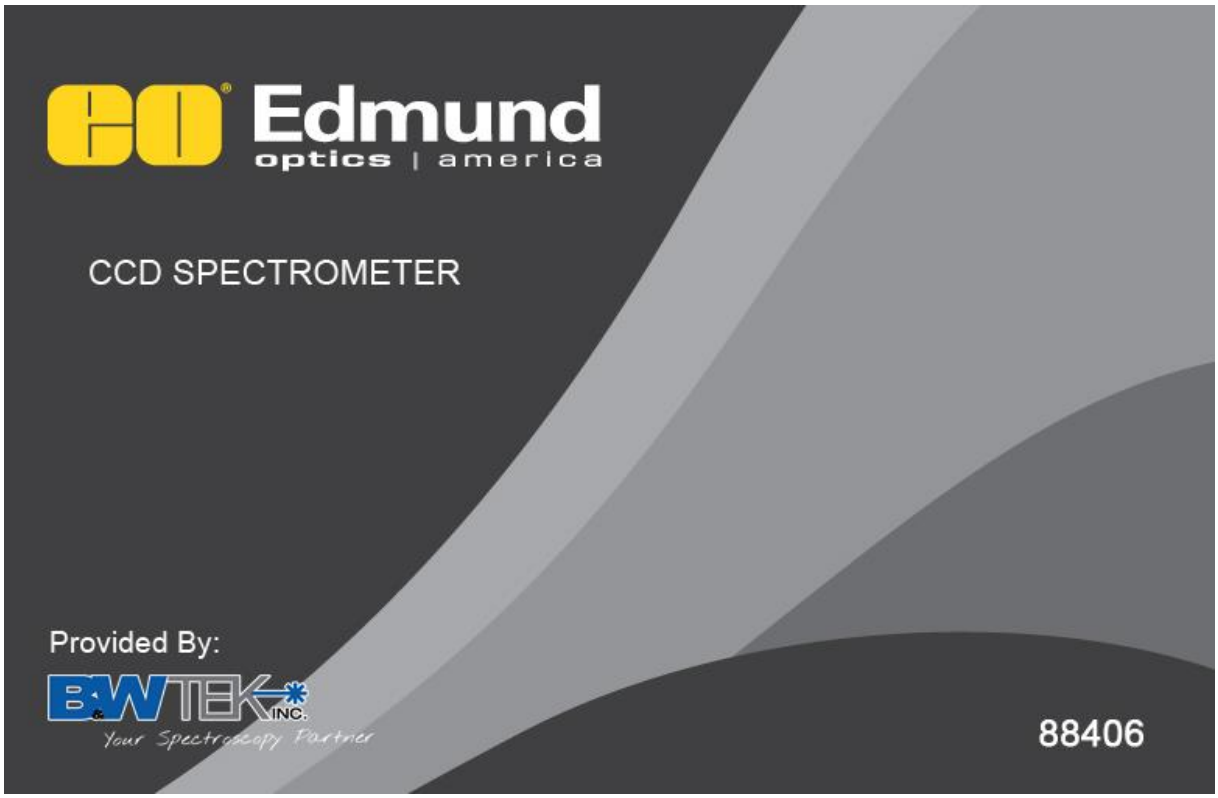


# BRC1K Miniature Spectrometer User Manual

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## 1) Introduction

The BRC1K Laboratory Spectrometer low cost, high performance, non-cooled linear CCD array spectrometer. Equipped with 1000 elements, built-in 16-bit digitizer, and a USB 2.0 interface, this spectrometer will continuously deliver optimized high throughput results.

External event synchronization and external trigger input are standard. This spectrometer is ideal for most Visible and Color Measuring applications with our standard spectral configurations which start at 200nm to as high as 1050nm. Flexible custom configurations and application support are available for OEM applications.

## 2) Specifications

See Product Data Sheet for specifications.

## 3) Check Contents

Before installation please check your system contents. They may include:

- BRC1K spectrometer unit
- USB cable
- AUX cable
- BWSpec software CD

USB Cable


BWSpec Software CD

BRC1K spectrometer unit

AUX Cable

 

## 4) Installation

***Software / Hardware Installation***

There will be a “BWSpec Software & Spectrometer Installation Guide” located on your software CD. Refer to this guide for installation instructions.

## 5) Operating Software BWSpec Quick Start Guide

***Getting to know BWSpec graphic user interface***

The BWSpec operating software has a graphic user interface which consists of a menu bar, quick access bar, graphic area, message bar and control panel.
Reference the BWSpec User Manual located on your Software CD for more information on how the software works.

***Quick Start***

1. Open BWSpec from the shortcut icon that will have been placed on your desktop after installation.
2. From the toolbar, select “Acquire Continuously”
3. Point the spectrometer’s SMA Port (Light Input) towards a broadband light source; for example a tungsten bulb, light bulb, or overhead lights.
4. You should see a spectral response being displayed on the Graph in the BWSpec software window. Spectral response will vary from unit to unit and source to source.

*Note* There are different ways in which light can be directed into the spectrometer’s SMA Port and different light sources which can be used.

For more information on these types of setups, please see our website: www.bwtek.com

 