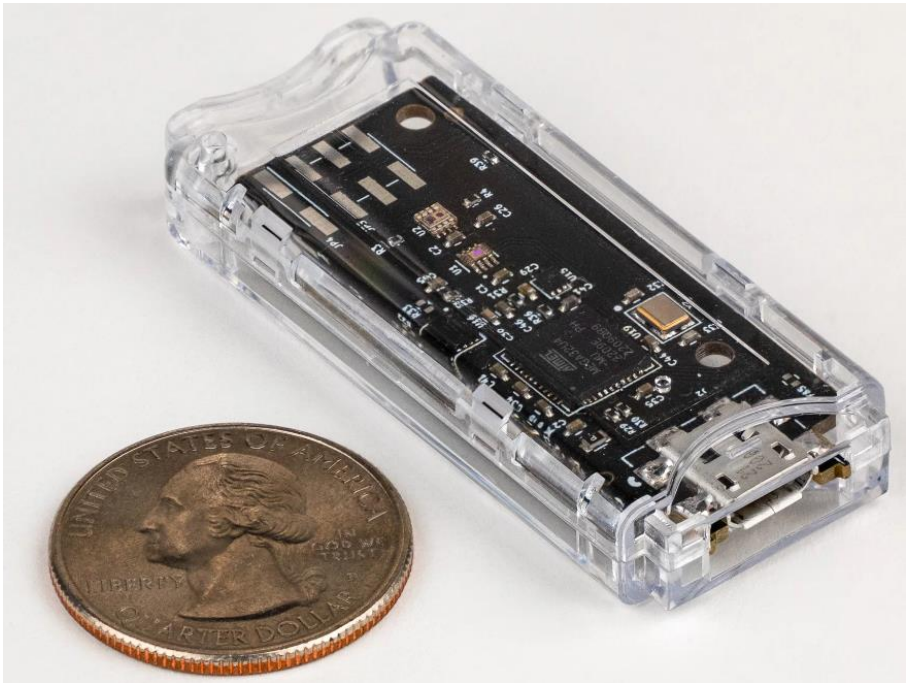




# Model 2450 Brightness and Color Kit (BACK)

The Model 2450 Brightness and Color kit is designed in partnership with Microsoft, to test the brightness and color of video displays on Windows-based devices such as PCs and tablets. It can be also used on other platforms as well. This product is assembled and tested to ensure high performance and ease of use, enabling developers and manufacturers to perform precise color and ambient light sensor testing in a controlled environment.



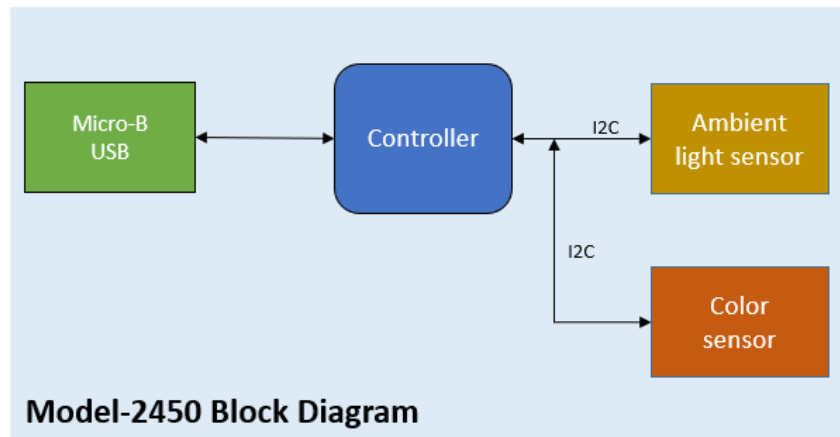
The system connects seamlessly to a control PC via a USB interface and generates controlled colors for testing Ambient-light sensors in various devices. It is compatible with Microsoft-supplied testing software for closed-loop testing.

MCCI designed a cross-platform UI to control, calibrate and firmware update in Model 2450.

## Technical Specifications

Parameter	Description/Value
<b>Product Type</b>	Brightness and Color test device
<b>Interfaces</b>	USB 2.0 (Micro-USB)
<b>Power Supply</b>	Powered via USB (5V)
<b>Sensors</b>	Color sensor, Ambient Light Sensors
<b>Testing Capabilities</b>	Brightness, Color, Ambient Light, Blink detection
<b>Software Compatibility</b>	Microsoft Test Software, Model 2450 UI, Python library

## Block Diagram:



## Functional Description:

The Model 2450 is designed for testing the performance and calibration of video displays and ambient light sensors. It generates a range of controlled colors to accurately simulate display scenarios.

Key features include:

- **Brightness and Color Testing:** Ensures that video displays meet brightness and color accuracy standards. Test and simulate auto brightness and manual brightness control.
- **Ambient Light Testing:** Simulates varying lighting conditions and system scenarios to test the responsiveness and accuracy of ambient light sensors.
- **Closed-Loop Testing:** Works seamlessly with Microsoft's test software, allowing automated, closed-loop testing that ensures high precision.
- **Customizable Tests:** Developers can write custom scripts to run specific tests according to their unique requirements, providing flexibility in testing scenarios.

## Case Dimensions:

<b>Dimensions (L x W x H)</b>	2.795" x 0.906" x 0.343" 70.99 x 23.01 x 8.71 millimetres
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## Price and Availability:

The Model 2450 is available from stock from MCCI's online store, <https://mcci-io/buy-2450>. For more information, please contact MCCI at [sales@mcci.com](mailto:sales@mcci.com).